

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P226460

Luminaire Tested: **IST-AF-1000-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35938)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: IST-AF-1000-LED-E1-T3-8030
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4951.3 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Cutoff
BUG Rating: B1 - U1 - G1

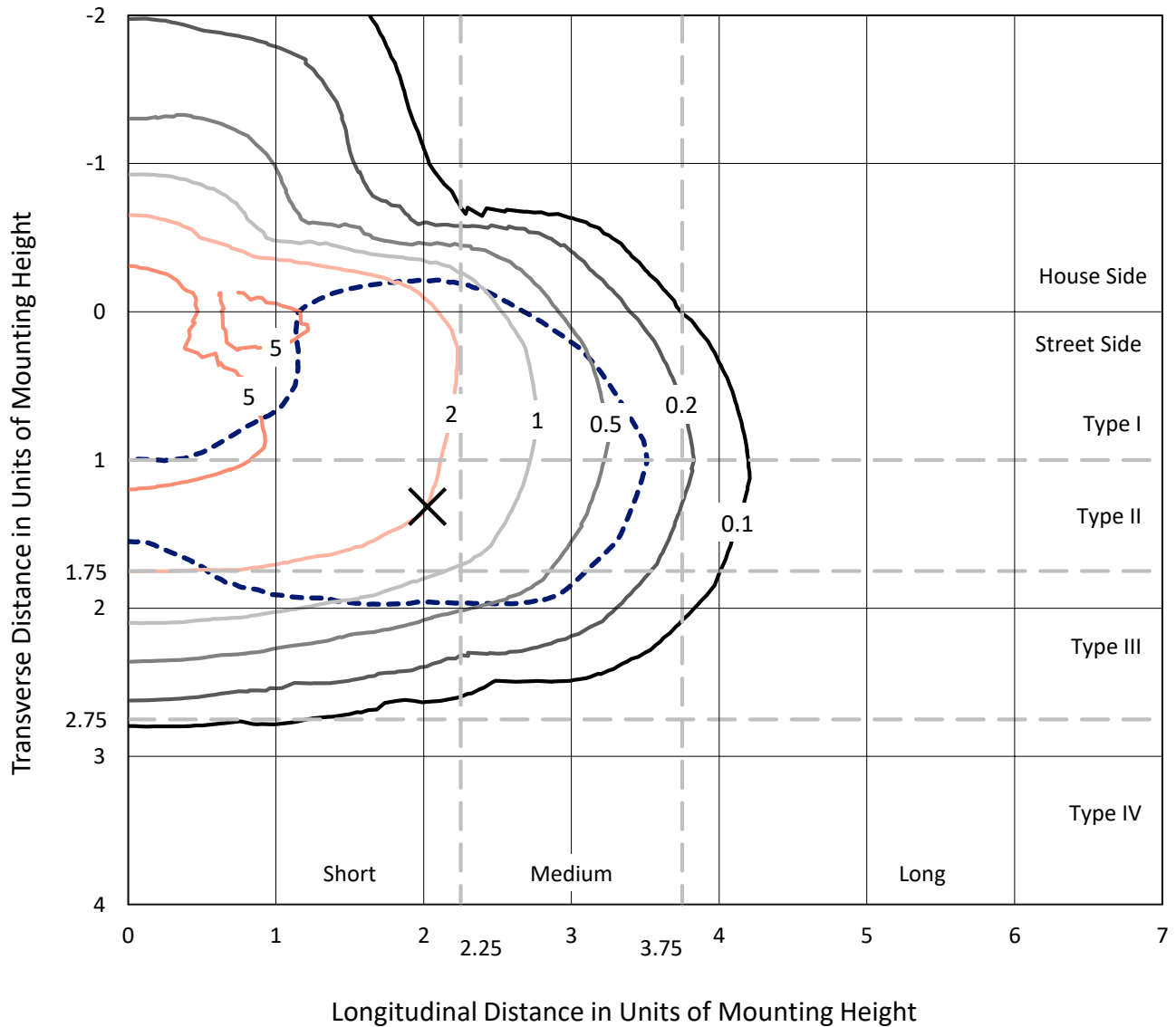
Input Watts (W): 54.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

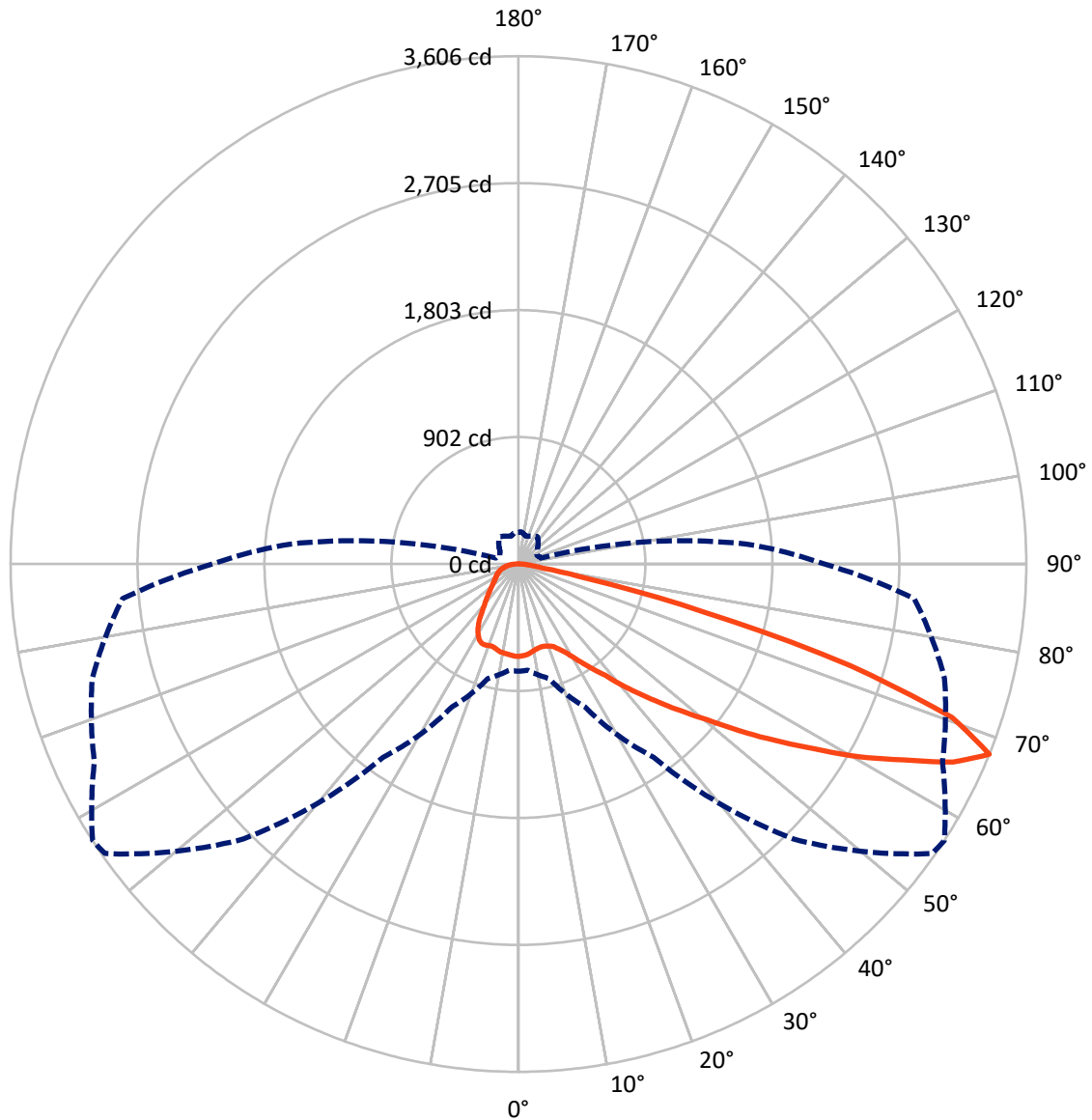
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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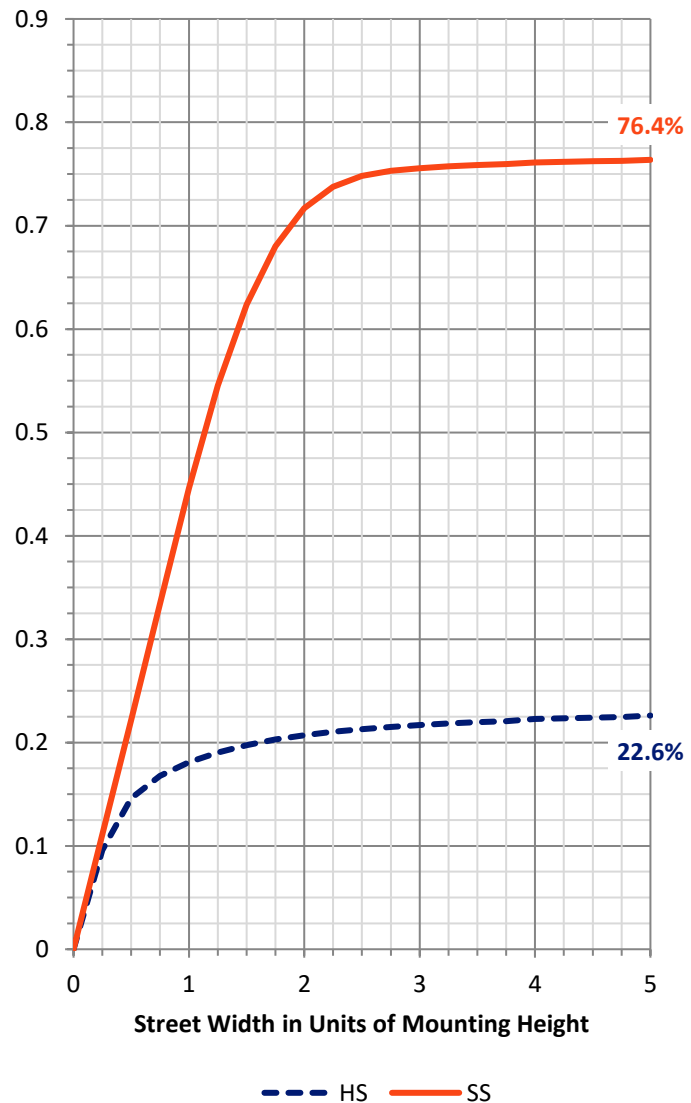
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1152.2	1.5	1153.7
	% Fixture	23.3	0.0	23.3
Street Side	Lumens	3797.2	0.4	3797.6
	% Fixture	76.7	0.0	76.7
Total	Lumens	4949.5	1.8	4951.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.3	1.2
10°-20°	176.4	3.6
20°-30°	303.5	6.1
30°-40°	493.5	10.0
40°-50°	796.1	16.1
50°-60°	1186.8	24.0
60°-70°	1336.6	27.0
70°-80°	515.3	10.4
80°-90°	79.9	1.6
90°-100°	1.8	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4949.5	100.0
0°-180°	4951.3	100.0



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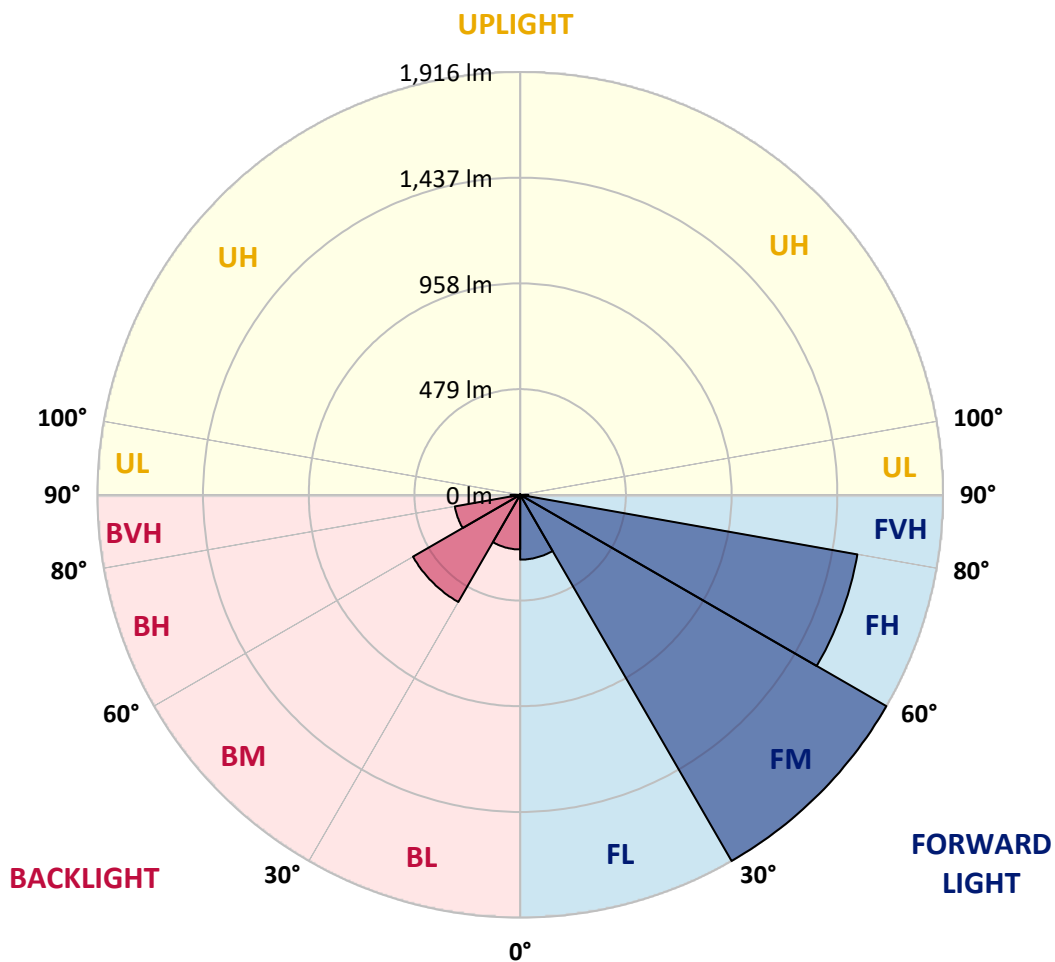
CATALOG NUMBER: IST-AF-1000-LED-E1-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	293.7	5.9			
FM	(30°-60°)	1915.6	38.7			
FH	(60°-80°)	1551.3	31.3			G1/1800
FVH	(80°-90°)	36.7	0.7			G1/100
BL	(0°-30°)	247.6	5.0	B1/500		
BM	(30°-60°)	560.8	11.3	B1/1000		
BH	(60°-80°)	300.7	6.1	B1/500		G1/500
BVH	(80°-90°)	43.2	0.9			G1/100
UL	(90°-100°)	1.8	0.0		U1/10	
UH	(100°-180°)	1.5	0.0		U1/10	

BUG Rating: B1-U1-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	651.1	652.6	654.0	653.3	653.3	653.3	653.3	651.8	654.0	654.0	652.6
5°	640.4	641.1	641.8	643.2	644.7	646.1	646.8	646.8	647.5	646.8	645.4
7.5°	624.6	625.3	628.2	628.2	629.6	632.5	633.9	635.3	637.5	637.5	636.8
10°	619.6	619.6	619.6	617.4	618.9	619.6	621.7	621.7	627.5	630.3	631.8
12.5°	625.3	624.6	624.6	618.9	613.8	611.7	613.8	614.6	621.0	625.3	628.2
15°	638.2	638.2	636.8	628.2	618.1	610.2	609.5	609.5	614.6	621.0	626.0
17.5°	668.3	671.2	661.2	647.5	631.0	618.1	613.1	612.4	616.0	621.0	626.0
20°	725.7	725.0	709.9	685.5	656.9	635.3	623.2	621.7	621.0	623.9	629.6
22.5°	793.8	791.0	773.0	742.2	702.8	663.3	639.6	636.8	631.0	633.2	641.1
25°	867.0	867.7	845.5	805.3	755.8	708.5	672.6	669.8	657.6	656.1	664.7
27.5°	940.1	949.4	919.3	881.3	822.5	765.9	713.5	709.2	698.5	694.9	703.5
30°	1047.0	1043.4	1006.1	956.6	897.8	826.8	776.6	768.7	747.2	752.2	761.6
32.5°	1137.3	1145.2	1111.5	1052.7	975.2	900.7	842.6	838.3	817.5	823.2	836.1
35°	1247.7	1266.4	1221.9	1149.5	1074.9	998.2	928.6	917.2	900.7	912.1	922.2
37.5°	1374.0	1383.3	1348.9	1255.6	1179.6	1099.3	1020.4	1002.5	984.6	1008.2	1026.2
40°	1494.4	1509.5	1465.0	1386.1	1297.9	1221.2	1135.2	1131.6	1090.0	1115.8	1162.4
42.5°	1673.0	1691.6	1620.6	1528.8	1449.2	1356.7	1275.0	1255.6	1210.5	1247.0	1325.2
45°	1797.8	1797.0	1749.0	1673.0	1624.2	1534.6	1424.2	1401.2	1352.4	1401.2	1505.9
47.5°	1842.9	1853.7	1837.2	1827.9	1810.7	1745.4	1582.6	1561.1	1515.2	1587.6	1684.5
50°	1909.6	1906.8	1906.8	1964.1	2013.6	2000.0	1768.4	1737.5	1689.5	1776.2	1915.4
52.5°	1926.8	1901.0	1941.2	2050.9	2207.9	2219.4	1984.2	1967.0	1909.6	1994.2	2165.6
55°	1878.8	1872.3	1936.2	2095.4	2342.8	2424.5	2234.5	2210.8	2146.3	2218.7	2436.0
57.5°	1771.2	1787.7	1890.3	2086.0	2436.0	2605.2	2509.1	2475.4	2382.9	2426.7	2704.2
60°	1658.6	1666.5	1802.1	2053.0	2461.1	2730.7	2797.4	2778.0	2619.5	2645.4	2902.8
62.5°	1533.9	1515.2	1655.8	2025.8	2433.1	2903.5	3077.1	3062.0	2874.8	2866.9	3044.1
65°	1185.4	1211.2	1330.9	1674.4	2241.6	3038.3	3410.5	3391.1	3159.5	3049.8	3029.0
67.5°	761.6	756.5	841.2	1119.4	1675.1	2761.5	3584.8	3606.3	3322.3	3132.3	2821.1
70°	273.2	281.1	312.7	508.4	918.6	1840.1	3160.2	3267.1	3202.5	2978.1	2296.1
72.5°	166.4	166.4	189.3	228.8	372.2	872.7	2252.4	2463.9	2613.8	2453.9	1695.9
75°	130.5	129.8	137.7	157.8	200.8	286.1	1197.5	1361.0	1676.6	1695.2	965.2
77.5°	103.3	102.5	110.4	119.8	149.9	151.3	382.2	497.7	769.4	724.3	344.9
80°	83.2	82.5	88.2	91.1	109.7	104.7	153.5	177.8	269.6	236.6	149.2
82.5°	75.3	75.3	81.0	69.6	76.0	73.9	95.4	101.8	135.5	140.6	89.6
85°	48.8	50.2	76.0	67.4	49.5	45.2	61.0	64.5	84.6	92.5	43.7
87.5°	22.9	25.1	58.1	55.9	33.0	24.4	34.4	36.6	45.9	56.7	25.8
90°	4.3	4.3	7.2	7.9	4.3	4.3	5.7	5.0	5.0	7.2	7.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1	656.1
2.5°	654.7	653.3	654.0	654.7	655.4	657.6	658.3	658.3	658.3	657.6	659.0
5°	646.8	645.4	645.4	647.5	649.7	652.6	656.9	660.4	661.9	662.6	662.6
7.5°	638.2	636.8	637.5	641.1	644.7	646.8	651.1	653.3	659.0	659.0	660.4
10°	632.5	633.9	634.6	638.2	641.1	641.1	640.4	638.9	637.5	641.1	639.6
12.5°	628.9	631.0	630.3	634.6	636.1	630.3	621.7	610.2	608.8	610.2	611.7
15°	627.5	627.5	629.6	629.6	622.4	611.0	600.2	600.9	602.4	606.7	606.7
17.5°	627.5	628.2	629.6	624.6	611.7	601.6	599.5	597.3	589.5	587.3	585.1
20°	632.5	631.0	632.5	623.2	611.7	603.8	587.3	571.5	556.5	550.0	547.1
22.5°	644.7	642.5	641.8	632.5	618.1	591.6	559.3	535.0	509.1	500.5	497.7
25°	666.2	665.5	660.4	654.0	613.8	562.2	521.3	482.6	454.6	439.6	440.3
27.5°	704.2	704.2	701.3	672.6	591.6	525.6	470.4	431.0	402.3	387.9	385.8
30°	761.6	763.0	764.4	677.7	556.5	471.8	414.5	387.9	370.7	360.0	359.3
32.5°	832.5	840.4	831.1	671.9	508.4	406.6	370.7	361.4	352.8	345.6	344.9
35°	926.5	948.0	889.2	649.0	454.6	362.1	344.2	337.8	331.3	326.3	327.0
37.5°	1052.7	1073.5	926.5	610.2	385.8	337.0	329.1	319.1	309.1	298.3	296.9
40°	1201.9	1195.4	939.4	537.1	342.8	324.8	314.1	301.2	284.0	268.2	265.3
42.5°	1351.0	1308.0	928.6	446.8	314.8	314.1	299.0	282.5	265.3	251.7	251.7
45°	1518.1	1406.9	895.7	362.1	292.6	302.6	284.0	266.8	251.0	240.9	240.2
47.5°	1675.9	1499.4	841.2	301.9	270.3	287.6	272.5	256.7	241.7	233.1	230.9
50°	1860.9	1604.9	799.6	261.0	248.8	272.5	266.0	251.7	237.4	227.3	225.9
52.5°	2048.0	1707.4	768.0	233.1	229.5	261.0	263.2	254.6	239.5	220.1	218.7
55°	2243.8	1835.8	704.9	210.8	212.3	252.4	266.8	260.3	249.5	218.0	216.6
57.5°	2408.0	1954.1	594.5	195.8	198.6	246.0	268.2	256.0	243.8	219.4	217.3
60°	2536.4	2035.1	436.0	183.6	186.4	238.8	261.7	240.9	225.2	219.4	215.8
62.5°	2575.8	2038.0	289.7	169.2	177.1	226.6	250.3	233.1	214.4	217.3	215.8
65°	2476.8	1930.4	207.2	155.6	169.2	212.3	245.2	225.2	209.4	220.9	219.4
67.5°	2172.1	1626.4	166.4	144.9	158.5	197.2	235.9	218.0	205.1	228.8	224.5
70°	1692.3	1166.7	141.3	134.1	147.0	182.9	223.0	210.1	199.4	222.3	216.6
72.5°	1115.8	687.0	124.8	124.1	133.4	170.7	208.7	202.9	190.0	201.5	192.9
75°	582.3	318.4	108.3	112.6	118.3	159.9	195.8	190.0	175.7	180.0	177.1
77.5°	228.8	149.2	93.9	99.0	105.4	144.1	179.3	173.5	161.3	157.8	157.0
80°	125.5	100.4	78.2	84.6	88.9	129.8	162.1	155.6	142.7	140.6	138.4
82.5°	79.6	65.3	64.5	68.8	74.6	115.5	145.6	135.5	124.8	147.0	119.0
85°	37.3	38.7	45.9	51.6	58.1	98.2	126.9	116.2	105.4	102.5	91.1
87.5°	20.8	25.8	30.1	35.1	40.2	68.8	100.4	90.4	78.9	67.4	69.6
90°	5.0	5.0	8.6	7.9	8.6	10.0	49.5	44.5	39.4	18.6	12.2
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: IST-AF-1000-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)