

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: P227917

Luminaire Tested: **ISC-AF-800-LED-E1-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227917
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29760)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-800-LED-E1-T4FT
Description: IMPACT ELITE LED CYLINDER LUMINAIRE
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4950.1 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

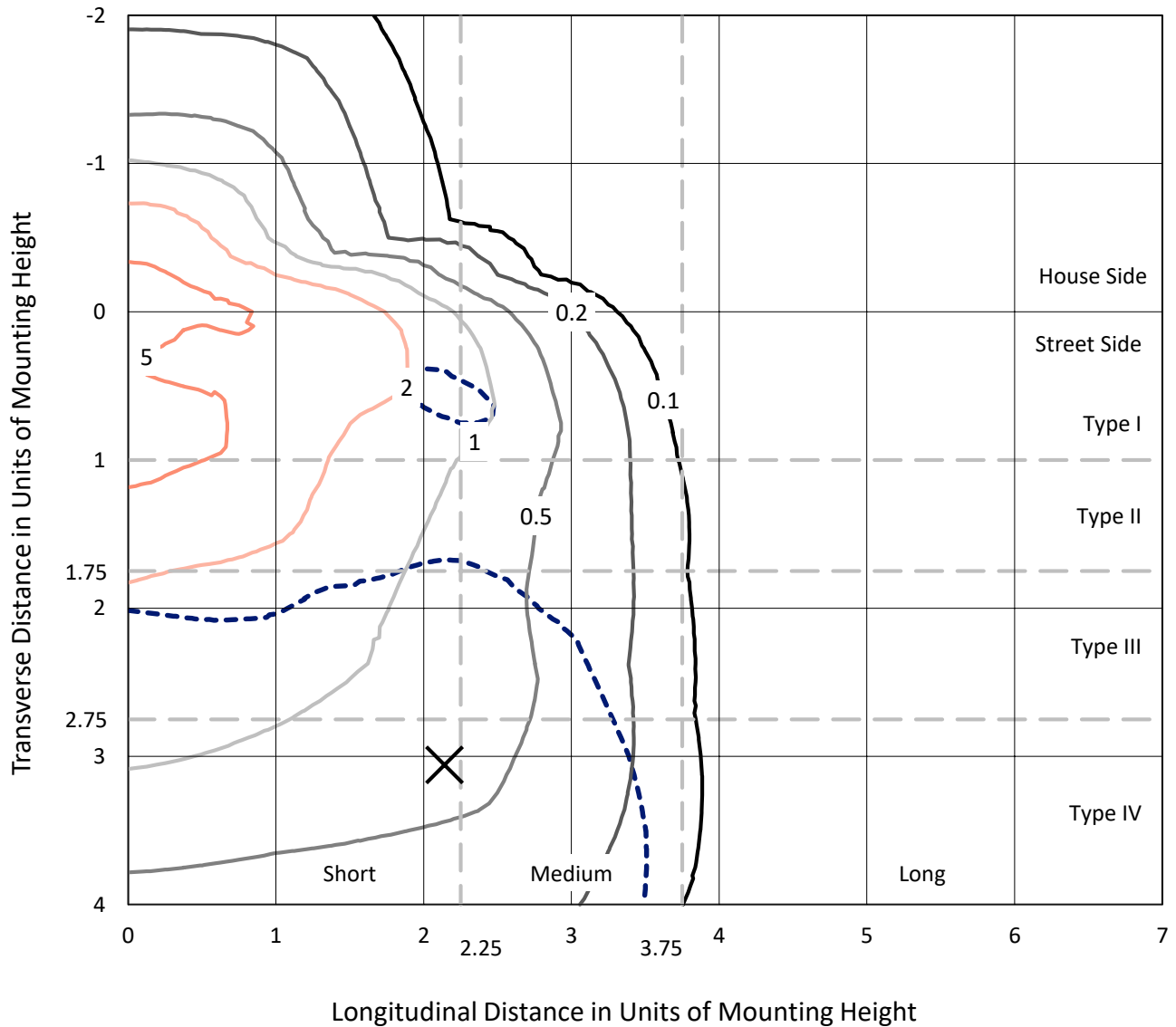
Input Watts (W): 43.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

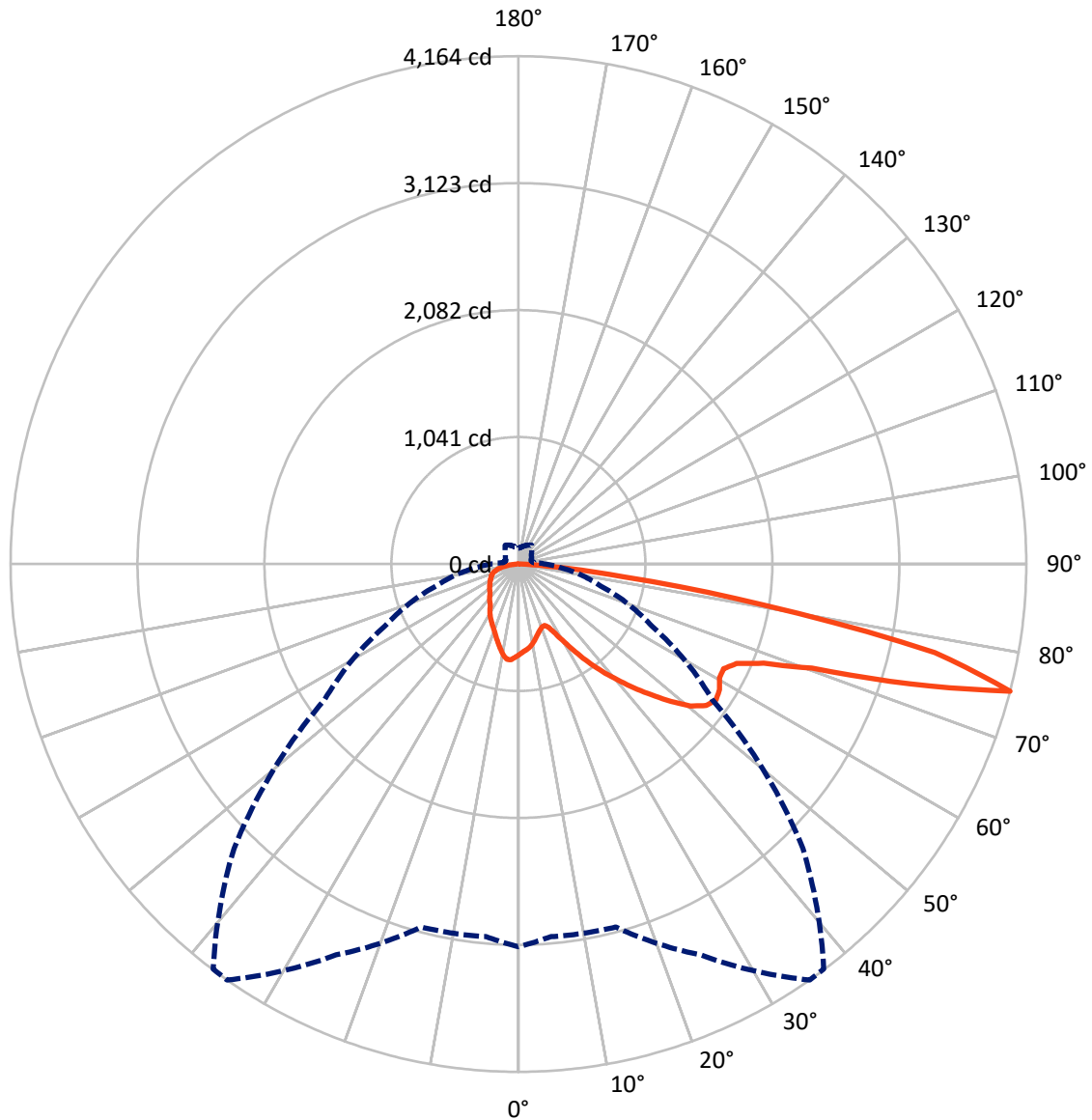


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	993.5	0.0	993.5
	% Fixture	20.1	0.0	20.1
Street Side	Lumens	3956.6	0.0	3956.6
	% Fixture	79.9	0.0	79.9
Total	Lumens	4950.1	0.0	4950.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.8	1.4
10°-20°	184.2	3.7
20°-30°	291.4	5.9
30°-40°	470.4	9.5
40°-50°	695.9	14.1
50°-60°	894.8	18.1
60°-70°	1107.9	22.4
70°-80°	1116.4	22.6
80°-90°	119.2	2.4
90°-100°	0.0	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°	4950.1	100.0
0°-180°	4950.1	100.0



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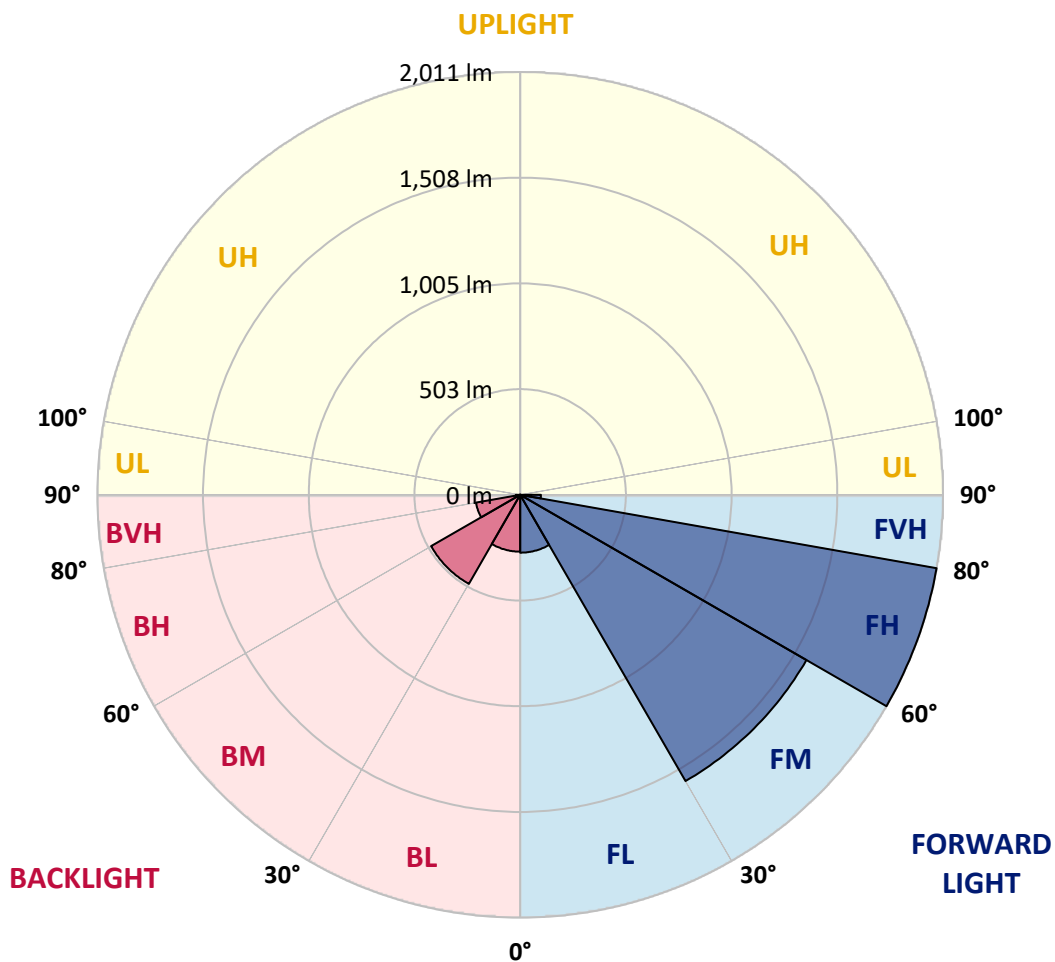
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.2	5.6			
FM	(30°-60°)	1571.8	31.8			
FH	(60°-80°)	2010.9	40.6			G2/5000
FVH	(80°-90°)	98.6	2.0			G1/100
BL	(0°-30°)	270.2	5.5	B1/500		
BM	(30°-60°)	489.2	9.9	B1/1000		
BH	(60°-80°)	213.4	4.3	B1/500		G1/500
BVH	(80°-90°)	20.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6
2.5°	722.1	720.5	718.8	718.8	722.1	722.1	723.8	725.5	727.1	732.0	738.7
5°	702.4	700.6	699.0	700.6	705.6	705.6	710.5	713.9	717.2	725.5	733.7
7.5°	675.9	675.9	674.2	680.9	685.8	684.1	690.7	694.1	702.4	710.5	723.8
10°	641.2	641.2	641.2	649.5	657.7	657.7	662.7	671.0	677.5	689.1	705.6
12.5°	611.4	609.8	609.8	616.4	626.3	628.0	636.2	647.7	656.0	671.0	689.1
15°	601.5	598.2	589.9	589.9	594.9	594.9	608.1	624.6	637.9	652.7	674.2
17.5°	603.1	598.2	576.7	570.1	570.1	571.7	585.0	603.1	619.7	637.9	665.9
20°	618.1	609.8	570.1	555.3	552.0	553.6	565.2	583.3	603.1	628.0	659.4
22.5°	682.5	669.2	594.9	561.8	547.0	547.0	553.6	573.5	598.2	631.3	671.0
25°	831.2	809.8	677.5	618.1	573.5	568.5	556.9	576.7	606.5	646.1	704.0
27.5°	983.3	961.8	780.0	715.6	646.1	631.3	588.3	593.2	626.3	679.1	753.5
30°	1110.5	1092.3	908.9	834.5	741.9	725.5	659.4	628.0	661.0	725.5	827.9
32.5°	1120.4	1112.2	1047.7	971.7	859.3	836.2	748.6	699.0	715.6	788.3	908.9
35°	1212.9	1206.4	1171.6	1099.0	986.5	960.1	867.6	791.6	786.5	857.6	1001.4
37.5°	1303.9	1295.6	1272.4	1222.8	1118.7	1097.2	1024.6	902.2	867.6	938.7	1092.3
40°	1389.8	1378.2	1348.5	1320.3	1244.3	1244.3	1166.7	1008.0	945.2	1009.7	1168.3
42.5°	1548.4	1512.0	1432.7	1411.3	1389.8	1389.8	1275.7	1080.7	1008.0	1087.3	1241.0
45°	1700.5	1665.7	1558.3	1515.3	1527.0	1520.3	1363.3	1122.1	1064.2	1160.0	1310.4
47.5°	1821.1	1789.7	1680.6	1650.8	1683.9	1657.5	1436.0	1155.1	1135.3	1237.8	1368.3
50°	1928.5	1854.1	1748.3	1788.0	1829.3	1784.7	1500.5	1204.6	1206.4	1320.3	1452.6
52.5°	1781.4	1773.1	1796.3	1888.8	1928.5	1878.9	1558.3	1267.4	1282.4	1426.1	1548.4
55°	1604.6	1603.0	1738.4	1918.5	1966.5	1920.2	1596.3	1343.4	1361.6	1556.6	1669.0
57.5°	1569.9	1553.4	1645.9	1855.7	1943.3	1910.3	1616.2	1414.5	1437.7	1721.9	1788.0
60°	1682.2	1650.8	1636.0	1788.0	1893.8	1877.2	1640.9	1498.8	1530.2	1910.3	1898.7
62.5°	1926.8	1883.9	1778.1	1792.9	1888.8	1875.6	1700.5	1598.0	1634.4	2098.7	1961.5
65°	2250.7	2219.3	2050.7	1930.1	1966.5	1948.3	1807.9	1723.6	1743.4	2234.2	1890.4
67.5°	2606.0	2563.0	2379.6	2214.4	2168.0	2133.4	1978.1	1872.3	1801.2	2214.4	1700.5
70°	3007.6	2961.2	2802.7	2632.5	2553.1	2515.1	2275.5	2001.2	1779.7	1996.2	1341.8
72.5°	3501.7	3438.9	3351.3	3369.4	3356.2	3250.4	2749.8	2044.2	1622.7	1485.6	801.5
75°	3138.1	3067.0	3081.9	3536.3	4164.3	4159.3	3298.4	1938.4	1209.6	700.6	347.0
77.5°	1125.3	1244.3	1835.9	2648.9	3491.7	3486.7	2553.1	1212.9	518.8	299.1	209.9
80°	282.5	287.6	456.1	1087.3	2039.2	2022.7	1447.6	457.8	216.5	181.8	143.7
82.5°	90.8	97.5	166.9	375.1	872.5	852.7	449.5	150.4	135.5	117.3	87.6
85°	29.8	29.8	59.5	128.9	287.6	276.0	90.8	54.5	74.4	61.2	39.7
87.5°	0.0	0.0	1.6	3.3	6.6	3.3	0.0	3.3	9.9	11.6	8.3
90°	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°	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6	743.6
2.5°	743.6	741.9	748.6	753.5	755.1	760.2	765.1	768.4	766.8	765.1	765.1
5°	741.9	743.6	755.1	765.1	773.4	781.6	788.3	791.6	789.9	789.9	789.9
7.5°	732.0	738.7	751.9	768.4	780.0	784.9	786.5	781.6	778.4	773.4	773.4
10°	715.6	725.5	747.0	765.1	770.1	763.4	753.5	743.6	730.4	722.1	722.1
12.5°	702.4	713.9	740.3	755.1	748.6	732.0	710.5	694.1	680.9	671.0	669.2
15°	690.7	705.6	733.7	737.0	722.1	694.1	665.9	647.7	632.9	626.3	626.3
17.5°	682.5	702.4	727.1	717.2	687.4	651.1	624.6	609.8	598.2	591.6	589.9
20°	684.1	708.9	720.5	692.4	649.5	611.4	586.7	578.4	570.1	566.8	566.8
22.5°	702.4	725.5	718.8	671.0	614.7	571.7	555.3	553.6	550.2	547.0	545.3
25°	741.9	758.5	723.8	649.5	578.4	535.4	527.1	532.1	530.5	527.1	527.1
27.5°	796.5	799.8	732.0	628.0	538.7	500.7	500.7	509.0	505.6	500.7	504.0
30°	862.7	844.4	735.4	593.2	492.4	467.7	472.6	477.6	474.2	467.7	467.7
32.5°	933.6	890.7	735.4	548.6	447.8	437.9	439.6	441.2	434.7	426.4	426.4
35°	1003.1	935.3	727.1	495.7	413.2	408.2	406.5	413.2	408.2	396.6	396.6
37.5°	1069.2	970.1	705.6	441.2	386.7	385.0	389.9	386.7	380.0	363.6	360.3
40°	1115.4	993.2	662.7	396.6	365.2	375.1	371.8	353.6	343.7	332.2	332.2
42.5°	1156.8	1004.7	609.8	361.9	350.4	363.6	350.4	327.2	313.9	312.3	313.9
45°	1194.8	1014.7	558.5	333.8	332.2	350.4	333.8	309.0	294.1	294.1	295.8
47.5°	1231.1	1024.6	507.3	307.4	310.7	330.5	320.6	295.8	280.9	271.0	271.0
50°	1288.9	1047.7	432.9	279.3	285.9	313.9	310.7	282.5	266.1	251.1	247.9
52.5°	1358.4	1087.3	352.0	249.5	267.7	299.1	299.1	271.0	252.9	233.0	229.7
55°	1450.9	1130.3	282.5	228.0	249.5	282.5	287.6	266.1	239.6	221.5	218.1
57.5°	1543.4	1145.2	228.0	206.5	226.4	266.1	279.3	256.1	224.7	211.5	209.9
60°	1607.9	1097.2	191.7	188.4	209.9	246.2	267.7	244.6	214.8	201.6	201.6
62.5°	1598.0	951.9	171.9	176.9	196.6	231.4	257.8	234.7	208.2	200.0	198.4
65°	1457.5	718.8	155.3	166.9	185.1	216.5	247.9	229.7	204.9	196.6	193.3
67.5°	1227.8	477.6	143.7	157.0	173.5	204.9	239.6	223.1	195.0	190.1	186.7
70°	889.0	279.3	132.2	147.1	161.9	191.7	228.0	209.9	183.4	180.1	171.9
72.5°	480.9	175.1	119.0	133.8	147.1	175.1	209.9	193.3	168.6	155.3	150.4
75°	219.8	127.3	105.8	119.0	128.9	153.6	188.4	170.2	150.4	133.8	130.5
77.5°	147.1	95.9	89.2	102.5	107.4	128.9	166.9	135.5	117.3	105.8	102.5
80°	100.8	71.1	72.7	84.3	82.7	102.5	125.6	109.0	92.6	95.9	87.6
82.5°	64.4	49.6	56.2	59.5	57.8	77.6	97.5	82.7	69.4	57.8	49.6
85°	28.1	26.4	33.0	34.7	34.7	43.0	51.2	41.3	31.4	23.1	23.1
87.5°	1.6	3.3	3.3	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0
90°	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)