

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: P595165

Luminaire Tested: **IST-PA1C-827-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595165
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-827-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3469 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

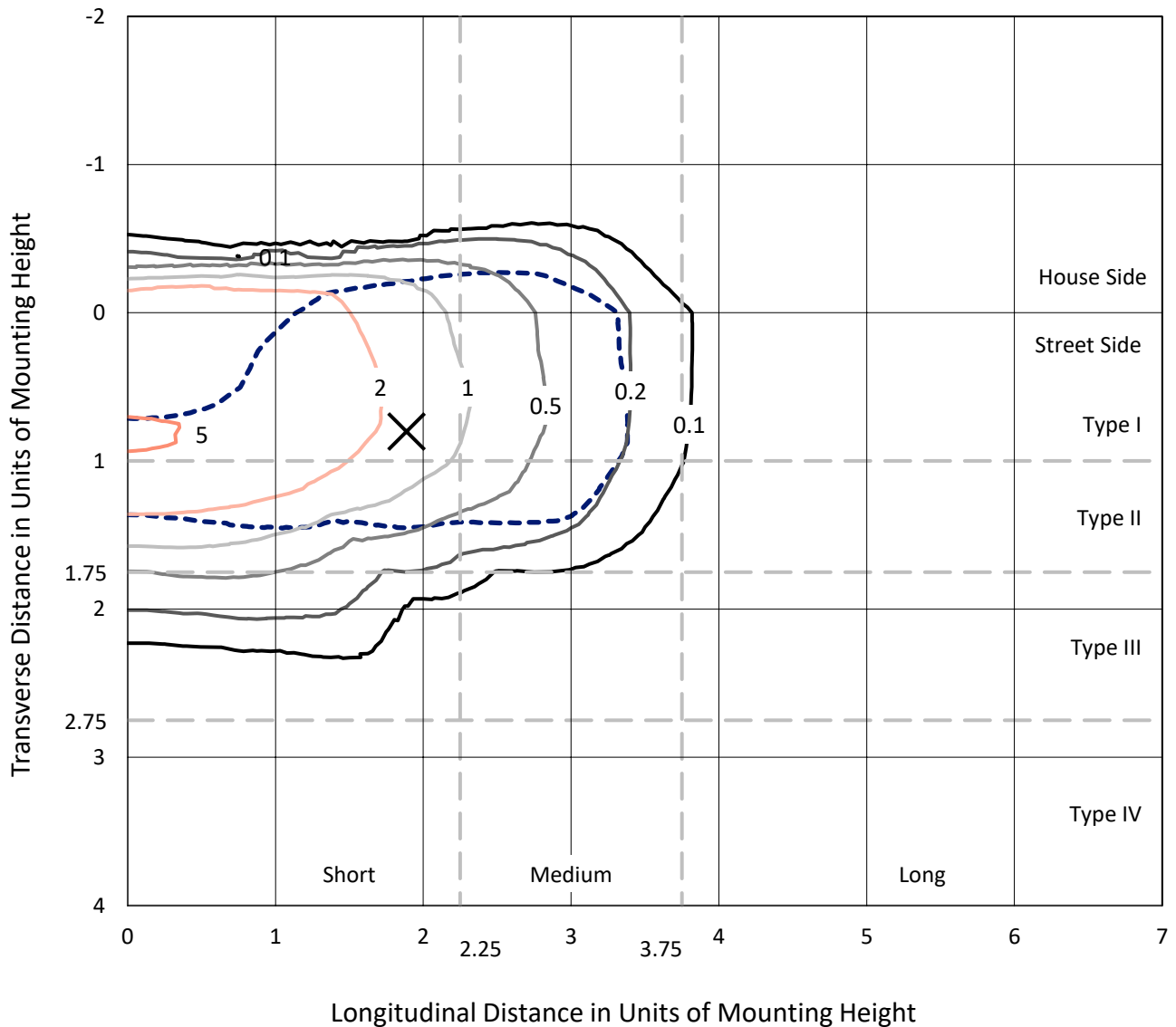
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

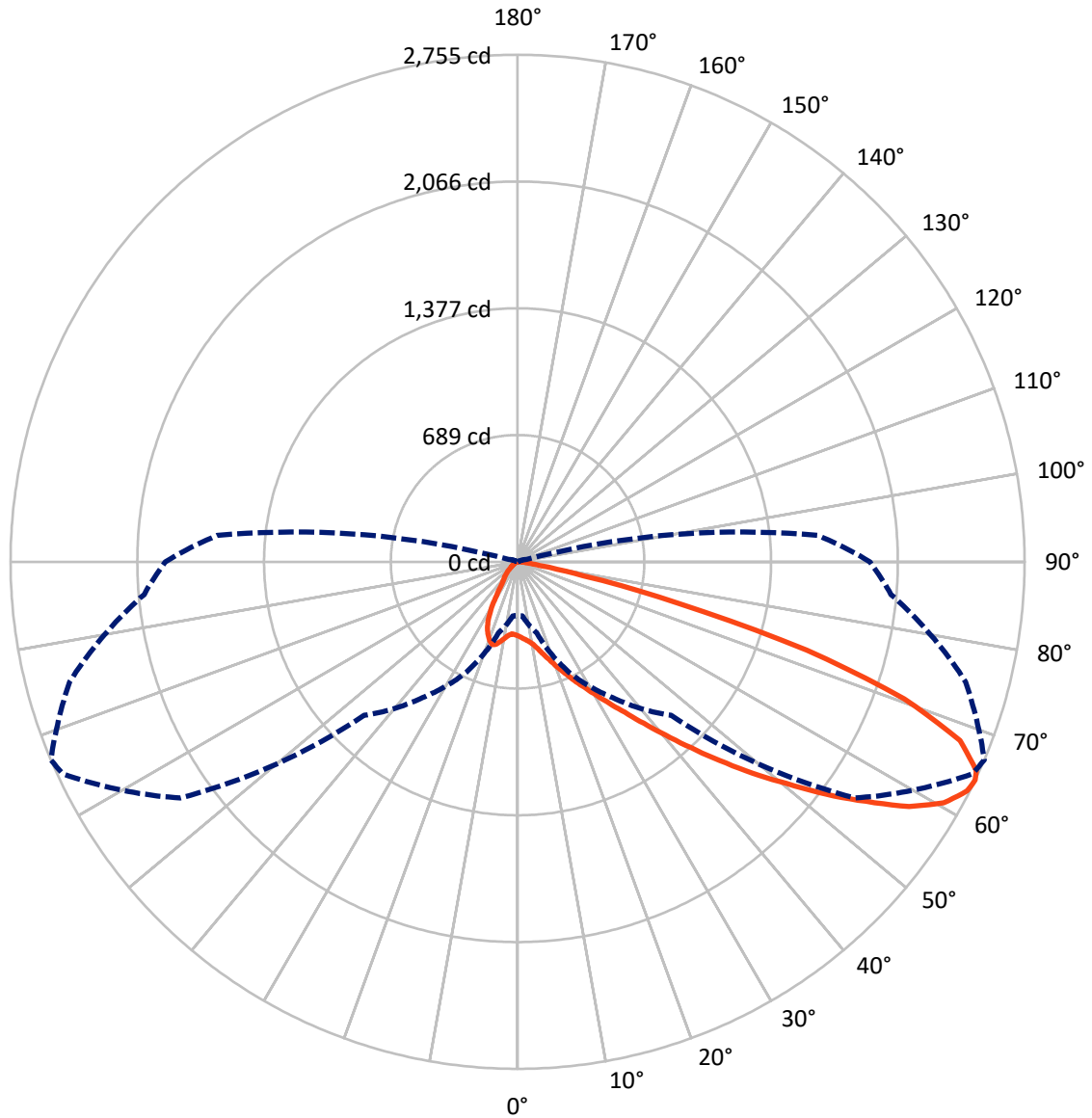
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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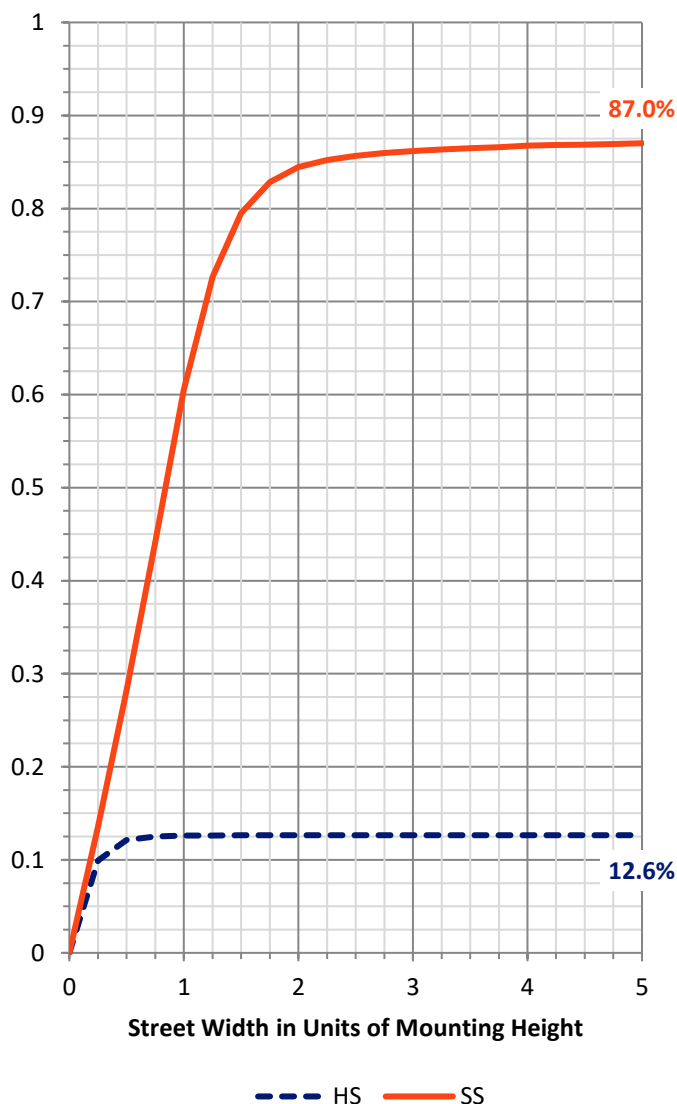
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	443.8	0.0	443.8
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3025.2	0.0	3025.2
	% Fixture	87.2	0.0	87.2
Total	Lumens	3469.0	0.0	3469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	1.1
10°-20°	112.9	3.3
20°-30°	204.8	5.9
30°-40°	392.3	11.3
40°-50°	723.0	20.8
50°-60°	933.8	26.9
60°-70°	764.9	22.0
70°-80°	281.2	8.1
80°-90°	18.1	0.5
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°	3469.0	100.0
0°-180°	3469.0	100.0

Coefficient of Utilization

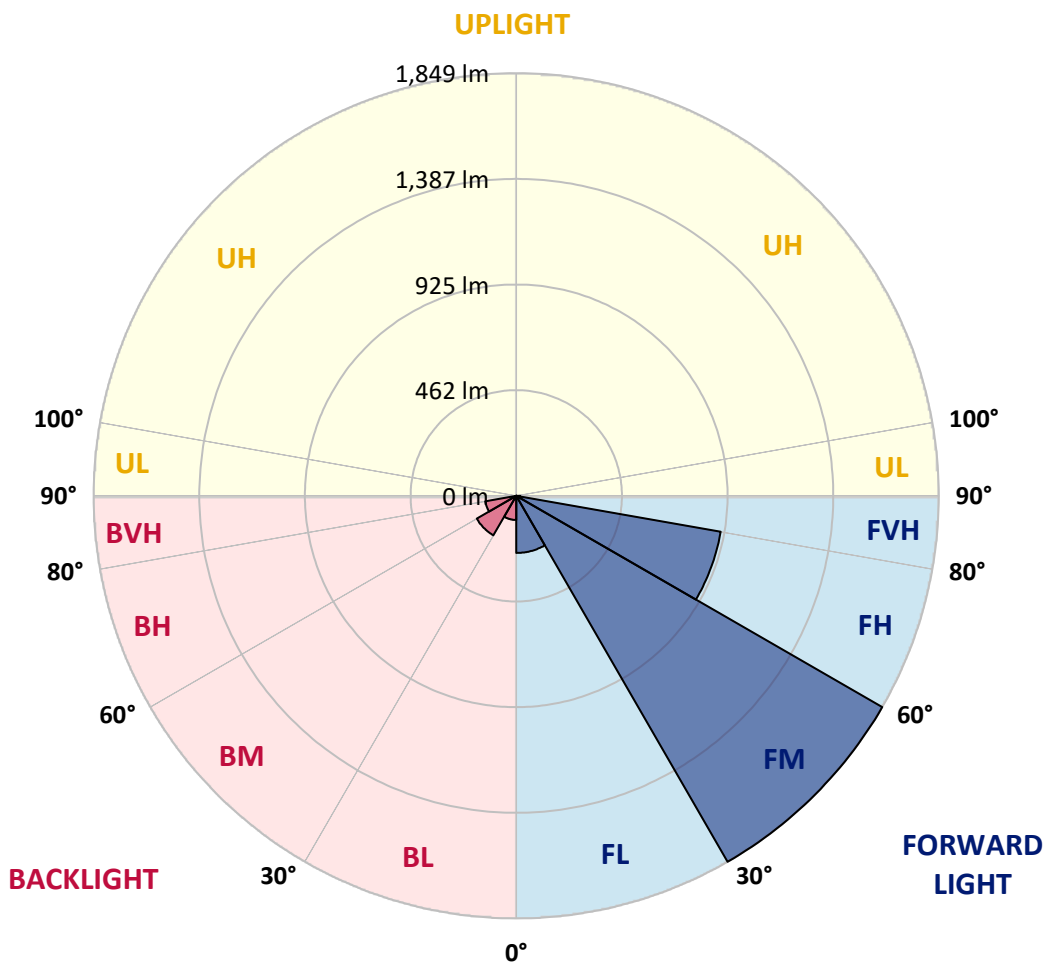


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	250.1	7.2			
FM (30°-60°)	1849.5	53.3			
FH (60°-80°)	908.3	26.2			G1/1800
FVH (80°-90°)	17.3	0.5			G1/100
BL (0°-30°)	105.8	3.0	B0/110		
BM (30°-60°)	199.5	5.8	B0/220		
BH (60°-80°)	137.7	4.0	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1
2.5°	417.4	417.4	419.8	418.6	418.6	416.2	412.6	413.8	412.6	411.4	407.9
5°	410.2	411.4	412.6	415.0	419.8	422.2	422.2	423.4	423.4	422.2	417.4
7.5°	406.7	409.0	411.4	413.8	419.8	423.4	429.3	436.5	436.5	437.7	432.9
10°	419.8	422.2	425.7	429.3	435.3	441.2	446.0	454.4	454.4	456.7	455.6
12.5°	447.2	447.2	448.4	450.8	459.1	466.3	474.6	481.8	483.0	484.2	480.6
15°	480.6	480.6	481.8	481.8	486.6	497.3	512.8	520.0	518.8	517.6	510.4
17.5°	518.8	518.8	518.8	520.0	522.3	528.3	546.2	560.5	559.3	558.1	543.8
20°	554.5	556.9	559.3	560.5	562.9	567.7	586.7	603.4	607.0	602.2	577.2
22.5°	595.1	596.3	597.5	601.0	607.0	609.4	628.5	653.5	657.1	651.1	617.7
25°	635.6	638.0	641.6	646.4	652.3	664.2	677.4	710.8	714.3	707.2	661.9
27.5°	725.1	723.9	713.1	704.8	706.0	714.3	732.2	768.0	771.6	764.4	706.0
30°	877.7	863.4	843.1	806.2	770.4	774.0	799.0	833.6	839.6	830.0	754.9
32.5°	1094.8	1080.4	1030.4	949.3	870.6	844.3	876.5	909.9	917.1	906.3	812.1
35°	1305.8	1302.3	1254.6	1156.8	1023.2	950.5	958.8	1001.7	1004.1	991.0	883.7
37.5°	1567.0	1553.9	1488.3	1378.6	1221.2	1091.2	1067.3	1107.9	1113.8	1098.3	970.7
40°	1739.9	1735.2	1695.8	1618.3	1448.9	1285.6	1199.7	1239.1	1237.9	1215.2	1070.9
42.5°	1840.1	1842.5	1840.1	1803.1	1706.5	1519.3	1375.0	1377.4	1381.0	1357.1	1186.6
45°	1908.1	1908.1	1911.7	1941.5	1904.5	1798.4	1588.5	1534.8	1539.6	1502.6	1307.0
47.5°	1906.9	1914.0	1933.1	2002.3	2052.4	2058.3	1855.6	1718.5	1716.1	1660.0	1431.1
50°	1778.1	1773.3	1852.0	2007.1	2157.3	2273.0	2108.4	1912.8	1892.6	1823.4	1559.9
52.5°	1488.3	1503.8	1635.0	1862.8	2182.4	2418.5	2326.7	2125.1	2098.9	1985.6	1673.1
55°	1235.5	1252.2	1379.8	1602.8	2046.4	2469.8	2473.3	2350.5	2298.0	2126.3	1790.0
57.5°	927.8	960.0	1148.4	1358.3	1748.3	2342.2	2525.8	2566.4	2509.1	2262.3	1885.4
60°	592.7	611.8	822.9	1081.6	1416.7	2008.2	2515.1	2691.6	2660.6	2386.3	1965.3
62.5°	387.6	398.3	543.8	814.5	1079.3	1513.3	2387.5	2741.7	2741.7	2469.8	2024.9
64°	292.2	294.6	398.3	661.9	900.4	1179.4	2237.2	2726.2	2754.8	2519.9	2036.9
65°	231.4	232.5	311.3	549.8	808.5	967.2	2106.0	2692.8	2739.3	2538.9	2044.0
67.5°	162.2	165.8	201.5	317.2	579.6	558.1	1561.0	2535.4	2592.6	2544.9	2034.5
70°	140.7	145.5	169.3	207.5	413.8	324.4	830.0	2160.9	2228.9	2370.8	1893.8
72.5°	107.3	113.3	141.9	175.3	291.0	219.4	320.8	1534.8	1642.1	1832.9	1563.4
75°	77.5	79.9	104.9	143.1	203.9	169.3	138.3	791.9	900.4	1081.6	971.9
77.5°	48.9	52.5	71.6	107.3	182.5	128.8	82.3	288.6	363.7	471.1	424.5
80°	28.6	29.8	42.9	73.9	122.8	95.4	52.5	102.6	124.0	175.3	113.3
82.5°	16.7	17.9	27.4	50.1	79.9	73.9	33.4	52.5	58.4	66.8	23.9
85°	6.0	6.0	19.1	29.8	42.9	37.0	19.1	27.4	29.8	37.0	7.2
87.5°	1.2	1.2	9.5	15.5	15.5	6.0	9.5	11.9	14.3	20.3	2.4
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°	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1
2.5°	406.7	403.1	399.5	394.7	391.2	384.0	380.4	375.7	374.5	372.1	370.9
5°	416.2	410.2	401.9	390.0	382.8	372.1	364.9	357.8	356.6	354.2	353.0
7.5°	429.3	423.4	412.6	399.5	387.6	376.8	368.5	357.8	347.0	338.7	338.7
10°	450.8	443.6	429.3	417.4	403.1	380.4	341.1	305.3	282.6	268.3	263.6
12.5°	477.0	467.5	452.0	437.7	410.2	338.7	277.9	231.4	193.2	175.3	171.7
15°	504.4	496.1	480.6	459.1	376.8	282.6	202.7	131.2	94.2	77.5	79.9
17.5°	534.3	522.3	504.4	461.5	331.5	211.1	108.5	66.8	57.2	54.9	54.9
20°	565.3	549.8	531.9	435.3	273.1	121.6	62.0	50.1	46.5	42.9	44.1
22.5°	598.7	579.6	552.1	395.9	195.6	65.6	47.7	40.5	35.8	34.6	34.6
25°	634.4	607.0	572.4	350.6	113.3	50.1	39.4	32.2	28.6	27.4	26.2
27.5°	672.6	638.0	577.2	291.0	64.4	41.7	31.0	25.0	21.5	20.3	20.3
30°	707.2	669.0	566.5	215.9	48.9	34.6	25.0	19.1	16.7	16.7	16.7
32.5°	753.7	703.6	533.1	134.8	39.4	27.4	19.1	15.5	13.1	13.1	13.1
35°	814.5	754.9	499.7	71.6	32.2	22.7	15.5	11.9	10.7	10.7	10.7
37.5°	898.0	822.9	469.9	45.3	26.2	17.9	11.9	9.5	8.3	8.3	8.3
40°	983.9	904.0	428.1	34.6	21.5	14.3	9.5	7.2	6.0	6.0	7.2
42.5°	1091.2	998.2	380.4	29.8	17.9	11.9	7.2	4.8	3.6	4.8	4.8
45°	1199.7	1097.1	313.6	25.0	15.5	9.5	4.8	2.4	2.4	3.6	3.6
47.5°	1311.8	1202.1	243.3	21.5	13.1	7.2	3.6	1.2	1.2	2.4	2.4
50°	1427.5	1305.8	181.3	19.1	10.7	6.0	2.4	1.2	0.0	1.2	1.2
52.5°	1543.2	1406.0	140.7	16.7	9.5	4.8	1.2	0.0	0.0	0.0	1.2
55°	1650.5	1496.6	112.1	14.3	8.3	3.6	1.2	0.0	0.0	0.0	0.0
57.5°	1741.1	1563.4	89.4	13.1	7.2	2.4	1.2	0.0	0.0	0.0	0.0
60°	1827.0	1615.9	69.2	10.7	6.0	2.4	1.2	0.0	0.0	0.0	0.0
62.5°	1887.8	1636.2	56.0	9.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0
64°	1914.0	1638.6	48.9	8.3	4.8	2.4	1.2	0.0	0.0	0.0	0.0
65°	1929.5	1631.4	45.3	8.3	4.8	2.4	1.2	0.0	0.0	0.0	0.0
67.5°	1933.1	1592.0	34.6	7.2	3.6	1.2	1.2	0.0	0.0	0.0	0.0
70°	1828.2	1454.9	25.0	4.8	2.4	1.2	0.0	0.0	0.0	0.0	0.0
72.5°	1527.7	1111.5	16.7	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
75°	954.0	480.6	9.5	3.6	1.2	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	394.7	145.5	6.0	2.4	1.2	1.2	0.0	0.0	0.0	0.0	0.0
80°	90.6	34.6	2.4	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	21.5	6.0	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	4.8	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	1.2	1.2	1.2	1.2	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)