

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: P595120

Luminaire Tested: **IST-PA1C-730-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595120
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-730-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3000K, 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: 4297 lumens
Efficiency: N/A
Efficacy: 89.0 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

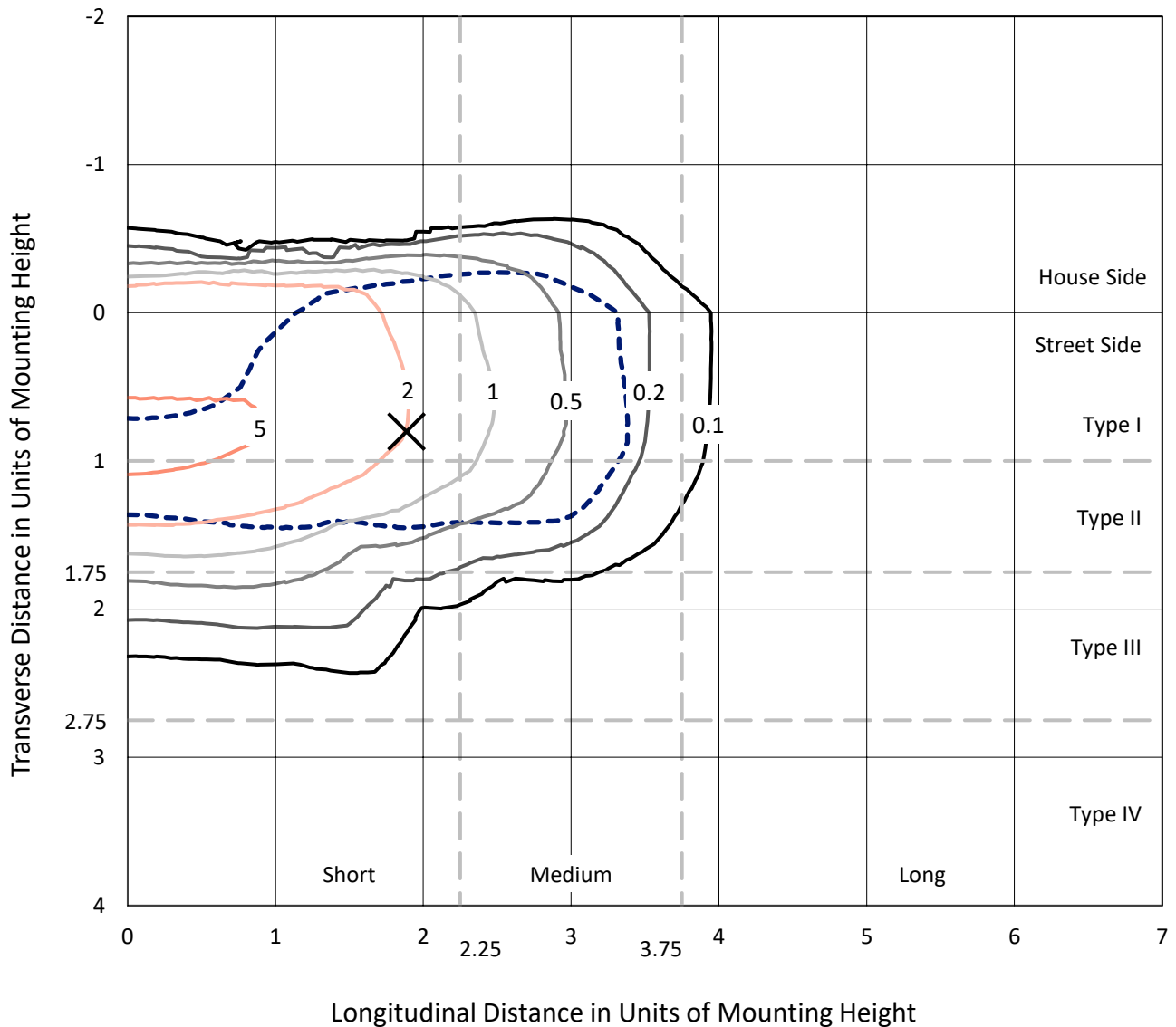
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

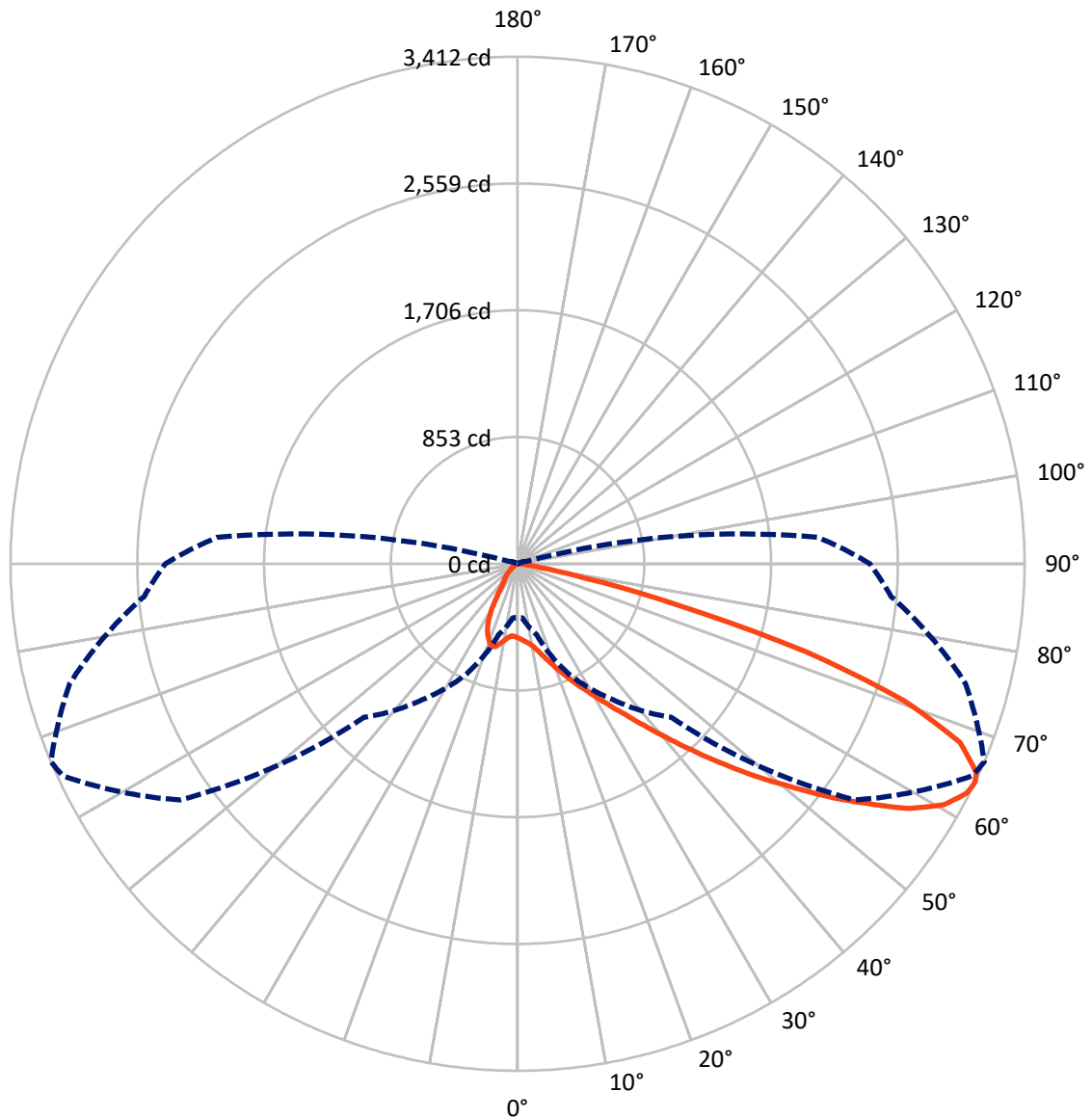
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.6 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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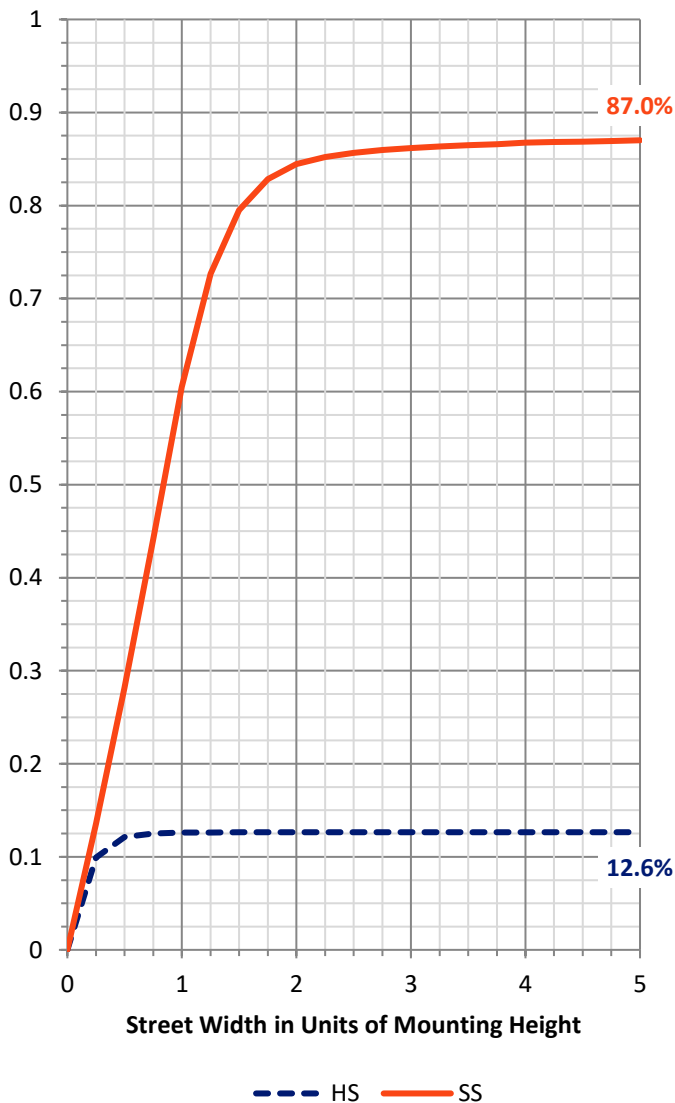
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	549.7	0.0	549.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3747.3	0.0	3747.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	4297.0	0.0	4297.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.1
10°-20°	139.8	3.3
20°-30°	253.6	5.9
30°-40°	485.9	11.3
40°-50°	895.5	20.8
50°-60°	1156.6	26.9
60°-70°	947.4	22.0
70°-80°	348.3	8.1
80°-90°	22.5	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°	4297.0	100.0
0°-180°	4297.0	100.0

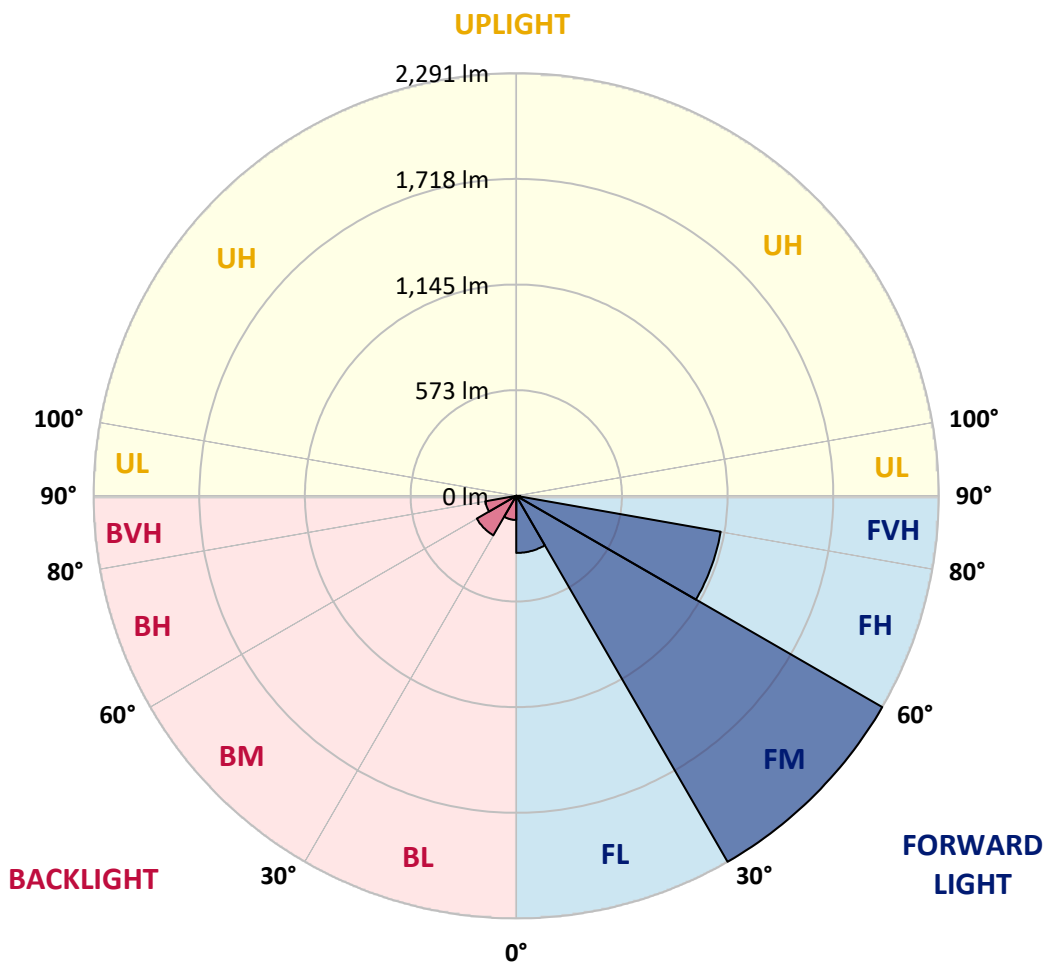


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.8	7.2			
FM (30°-60°)	2290.9	53.3			
FH (60°-80°)	1125.1	26.2			G1/1800
FVH (80°-90°)	21.5	0.5			G1/100
BL (0°-30°)	131.0	3.0	B1/500		
BM (30°-60°)	247.1	5.8	B1/1000		
BH (60°-80°)	170.5	4.0	B1/500		G1/500
BVH (80°-90°)	1.0	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°	499.3	499.3	499.3	499.3	499.3	499.3	499.3	499.3	499.3	499.3	499.3
2.5°	517.0	517.0	520.0	518.5	518.5	515.5	511.1	512.6	511.1	509.6	505.2
5°	508.2	509.6	511.1	514.1	520.0	522.9	522.9	524.4	524.4	522.9	517.0
7.5°	503.7	506.7	509.6	512.6	520.0	524.4	531.8	540.7	540.7	542.1	536.2
10°	520.0	522.9	527.4	531.8	539.2	546.6	552.5	562.8	562.8	565.8	564.3
12.5°	553.9	553.9	555.4	558.4	568.7	577.6	587.9	596.8	598.3	599.7	595.3
15°	595.3	595.3	596.8	596.8	602.7	616.0	635.2	644.1	642.6	641.1	632.2
17.5°	642.6	642.6	642.6	644.1	647.0	654.4	676.6	694.3	692.8	691.3	673.6
20°	686.9	689.8	692.8	694.3	697.2	703.1	726.8	747.5	751.9	746.0	715.0
22.5°	737.1	738.6	740.1	744.5	751.9	754.8	778.5	809.5	813.9	806.5	765.2
25°	787.3	790.3	794.7	800.6	808.0	822.8	839.0	880.4	884.8	876.0	819.8
27.5°	898.1	896.7	883.4	873.0	874.5	884.8	907.0	951.3	955.7	946.9	874.5
30°	1087.2	1069.5	1044.4	998.6	954.3	958.7	989.7	1032.6	1039.9	1028.1	935.1
32.5°	1356.1	1338.3	1276.3	1175.8	1078.3	1045.9	1085.7	1127.1	1136.0	1122.7	1006.0
35°	1617.5	1613.1	1554.0	1432.9	1267.4	1177.3	1187.7	1240.8	1243.8	1227.5	1094.6
37.5°	1941.0	1924.8	1843.5	1707.6	1512.6	1351.6	1322.1	1372.3	1379.7	1360.5	1202.4
40°	2155.2	2149.3	2100.6	2004.5	1794.8	1592.4	1486.1	1534.8	1533.3	1505.3	1326.5
42.5°	2279.3	2282.3	2279.3	2233.5	2113.9	1881.9	1703.2	1706.2	1710.6	1681.0	1469.8
45°	2363.5	2363.5	2367.9	2404.9	2359.1	2227.6	1967.6	1901.1	1907.1	1861.3	1619.0
47.5°	2362.0	2370.9	2394.5	2480.2	2542.2	2549.6	2298.5	2128.6	2125.7	2056.2	1772.6
50°	2202.5	2196.6	2294.1	2486.1	2672.2	2815.5	2611.7	2369.4	2344.3	2258.6	1932.2
52.5°	1843.5	1862.7	2025.2	2307.4	2703.3	2995.7	2882.0	2632.4	2599.9	2459.5	2072.5
55°	1530.4	1551.0	1709.1	1985.3	2534.9	3059.3	3063.7	2911.5	2846.5	2633.8	2217.3
57.5°	1149.3	1189.1	1422.5	1682.5	2165.6	2901.2	3128.7	3178.9	3108.0	2802.2	2335.4
60°	734.2	757.8	1019.3	1339.8	1754.9	2487.6	3115.4	3334.0	3295.6	2955.9	2434.4
62.5°	480.1	493.4	673.6	1008.9	1336.9	1874.6	2957.3	3396.1	3396.1	3059.3	2508.3
64°	361.9	364.9	493.4	819.8	1115.3	1460.9	2771.2	3376.9	3412.3	3121.3	2523.0
65°	286.6	288.1	385.5	681.0	1001.5	1198.0	2608.7	3335.5	3393.1	3144.9	2531.9
67.5°	200.9	205.3	249.6	392.9	717.9	691.3	1933.6	3140.5	3211.4	3152.3	2520.1
70°	174.3	180.2	209.8	257.0	512.6	401.8	1028.1	2676.7	2760.9	2936.7	2345.8
72.5°	132.9	140.3	175.8	217.1	360.4	271.8	397.4	1901.1	2034.1	2270.4	1936.6
75°	96.0	99.0	130.0	177.3	252.6	209.8	171.4	980.9	1115.3	1339.8	1203.9
77.5°	60.6	65.0	88.6	132.9	226.0	159.5	101.9	357.5	450.5	583.5	525.9
80°	35.5	36.9	53.2	91.6	152.2	118.2	65.0	127.0	153.6	217.1	140.3
82.5°	20.7	22.2	34.0	62.0	99.0	91.6	41.4	65.0	72.4	82.7	29.5
85°	7.4	7.4	23.6	36.9	53.2	45.8	23.6	34.0	36.9	45.8	8.9
87.5°	1.5	1.5	11.8	19.2	19.2	7.4	11.8	14.8	17.7	25.1	3.0
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°	499.3	499.3	499.3	499.3	499.3	499.3	499.3	499.3	499.3	499.3	499.3
2.5°	503.7	499.3	494.9	488.9	484.5	475.7	471.2	465.3	463.8	460.9	459.4
5°	515.5	508.2	497.8	483.0	474.2	460.9	452.0	443.2	441.7	438.7	437.2
7.5°	531.8	524.4	511.1	494.9	480.1	466.8	456.5	443.2	429.9	419.5	419.5
10°	558.4	549.5	531.8	517.0	499.3	471.2	422.5	378.2	350.1	332.4	326.5
12.5°	590.9	579.1	559.9	542.1	508.2	419.5	344.2	286.6	239.3	217.1	212.7
15°	624.9	614.5	595.3	568.7	466.8	350.1	251.1	162.5	116.7	96.0	99.0
17.5°	661.8	647.0	624.9	571.7	410.7	261.5	134.4	82.7	70.9	68.0	68.0
20°	700.2	681.0	658.8	539.2	338.3	150.7	76.8	62.0	57.6	53.2	54.7
22.5°	741.5	717.9	683.9	490.4	242.3	81.2	59.1	50.2	44.3	42.8	42.8
25°	785.9	751.9	709.1	434.3	140.3	62.0	48.7	39.9	35.5	34.0	32.5
27.5°	833.1	790.3	715.0	360.4	79.8	51.7	38.4	31.0	26.6	25.1	25.1
30°	876.0	828.7	701.7	267.4	60.6	42.8	31.0	23.6	20.7	20.7	20.7
32.5°	933.6	871.5	660.3	166.9	48.7	34.0	23.6	19.2	16.2	16.2	16.2
35°	1008.9	935.1	618.9	88.6	39.9	28.1	19.2	14.8	13.3	13.3	13.3
37.5°	1112.3	1019.3	582.0	56.1	32.5	22.2	14.8	11.8	10.3	10.3	10.3
40°	1218.7	1119.7	530.3	42.8	26.6	17.7	11.8	8.9	7.4	7.4	8.9
42.5°	1351.6	1236.4	471.2	36.9	22.2	14.8	8.9	5.9	4.4	5.9	5.9
45°	1486.1	1359.0	388.5	31.0	19.2	11.8	5.9	3.0	3.0	4.4	4.4
47.5°	1624.9	1489.0	301.3	26.6	16.2	8.9	4.4	1.5	1.5	3.0	3.0
50°	1768.2	1617.5	224.5	23.6	13.3	7.4	3.0	1.5	0.0	1.5	1.5
52.5°	1911.5	1741.6	174.3	20.7	11.8	5.9	1.5	0.0	0.0	0.0	1.5
55°	2044.4	1853.9	138.9	17.7	10.3	4.4	1.5	0.0	0.0	0.0	0.0
57.5°	2156.7	1936.6	110.8	16.2	8.9	3.0	1.5	0.0	0.0	0.0	0.0
60°	2263.1	2001.6	85.7	13.3	7.4	3.0	1.5	0.0	0.0	0.0	0.0
62.5°	2338.4	2026.7	69.4	11.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0
64°	2370.9	2029.7	60.6	10.3	5.9	3.0	1.5	0.0	0.0	0.0	0.0
65°	2390.1	2020.8	56.1	10.3	5.9	3.0	1.5	0.0	0.0	0.0	0.0
67.5°	2394.5	1972.0	42.8	8.9	4.4	1.5	1.5	0.0	0.0	0.0	0.0
70°	2264.5	1802.2	31.0	5.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1892.3	1376.7	20.7	4.4	3.0	1.5	0.0	0.0	0.0	0.0	0.0
75°	1181.8	595.3	11.8	4.4	1.5	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	488.9	180.2	7.4	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
80°	112.3	42.8	3.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	26.6	7.4	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	5.9	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	1.5	1.5	1.5	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)