

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: P594701

Luminaire Tested: **ISS-PA1D-727-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISS-PA1D-727-U-T4W-HSS  
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5381 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

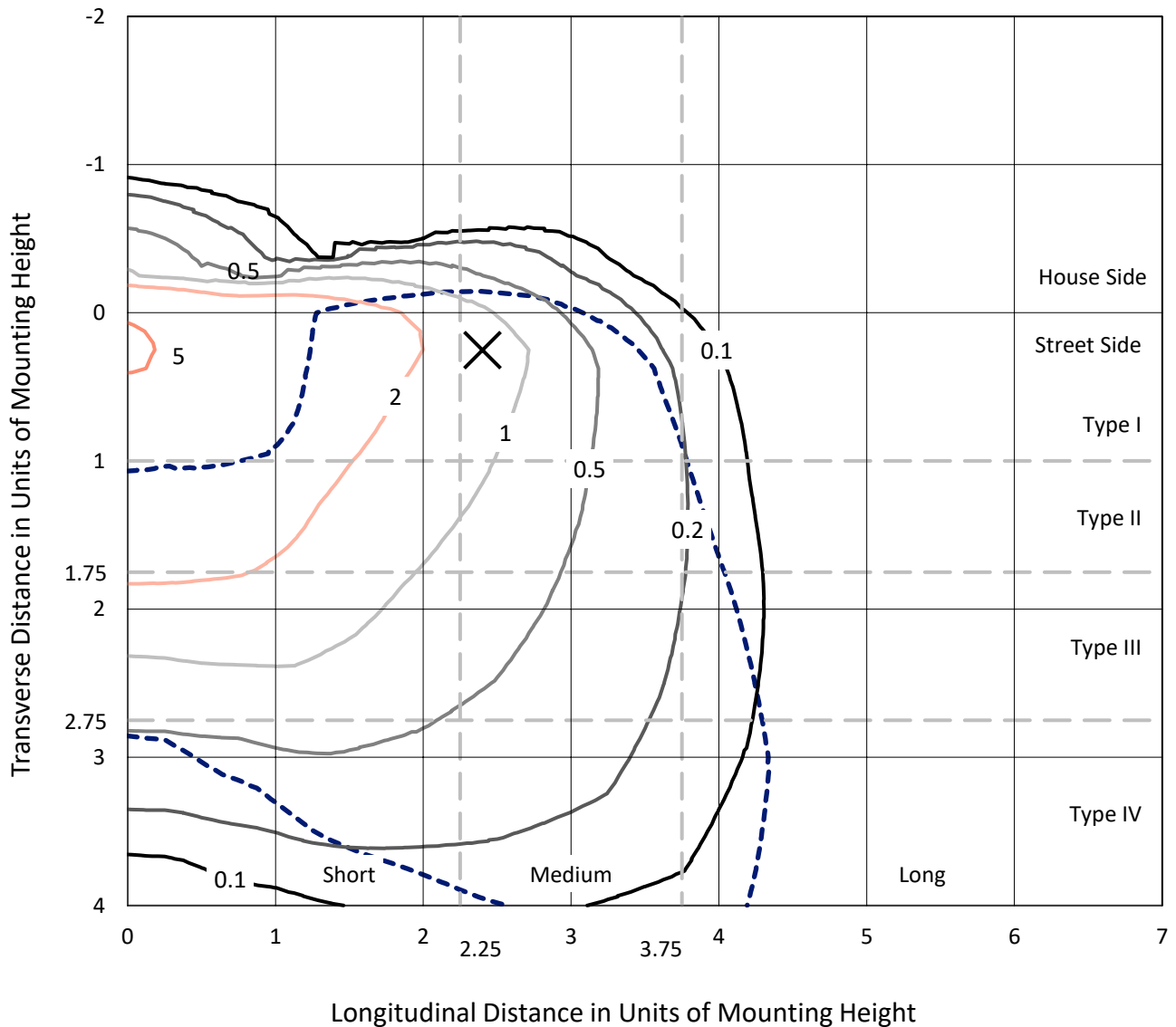
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

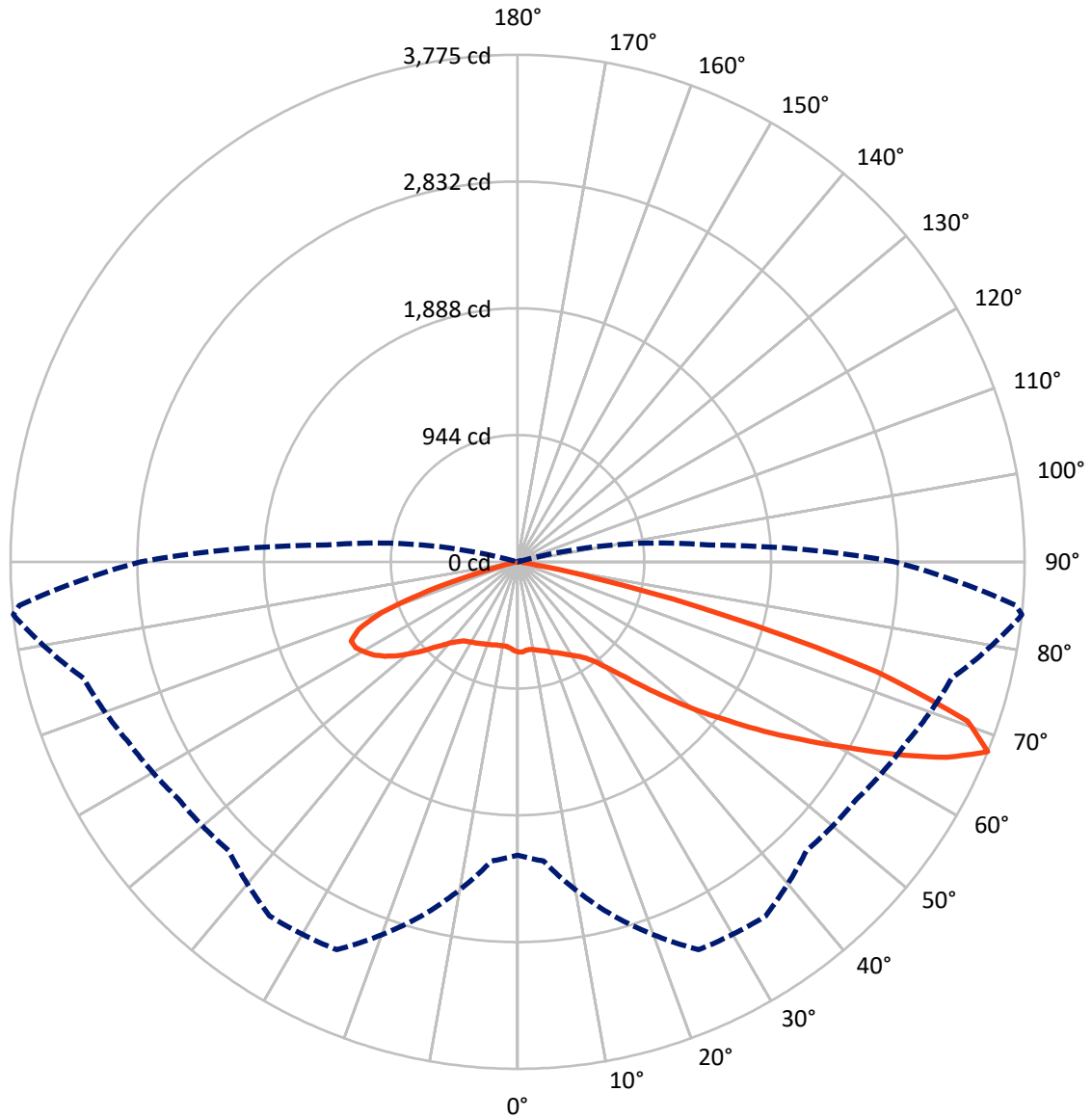
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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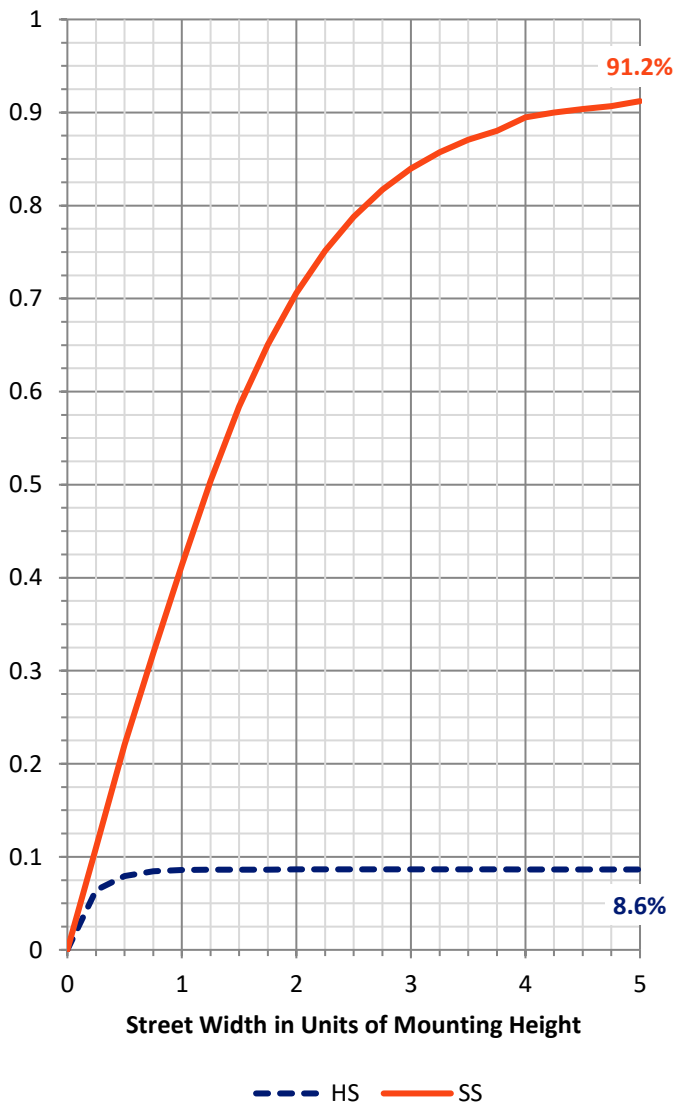
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	468.5	0.0	468.5
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	4912.5	0.0	4912.5
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	5381.0	0.0	5381.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.1	1.1
10°-20°	157.2	2.9
20°-30°	251.8	4.7
30°-40°	362.4	6.7
40°-50°	622.0	11.6
50°-60°	1086.7	20.2
60°-70°	1556.2	28.9
70°-80°	1169.7	21.7
80°-90°	114.8	2.1
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°	5381.0	100.0
0°-180°	5381.0	100.0

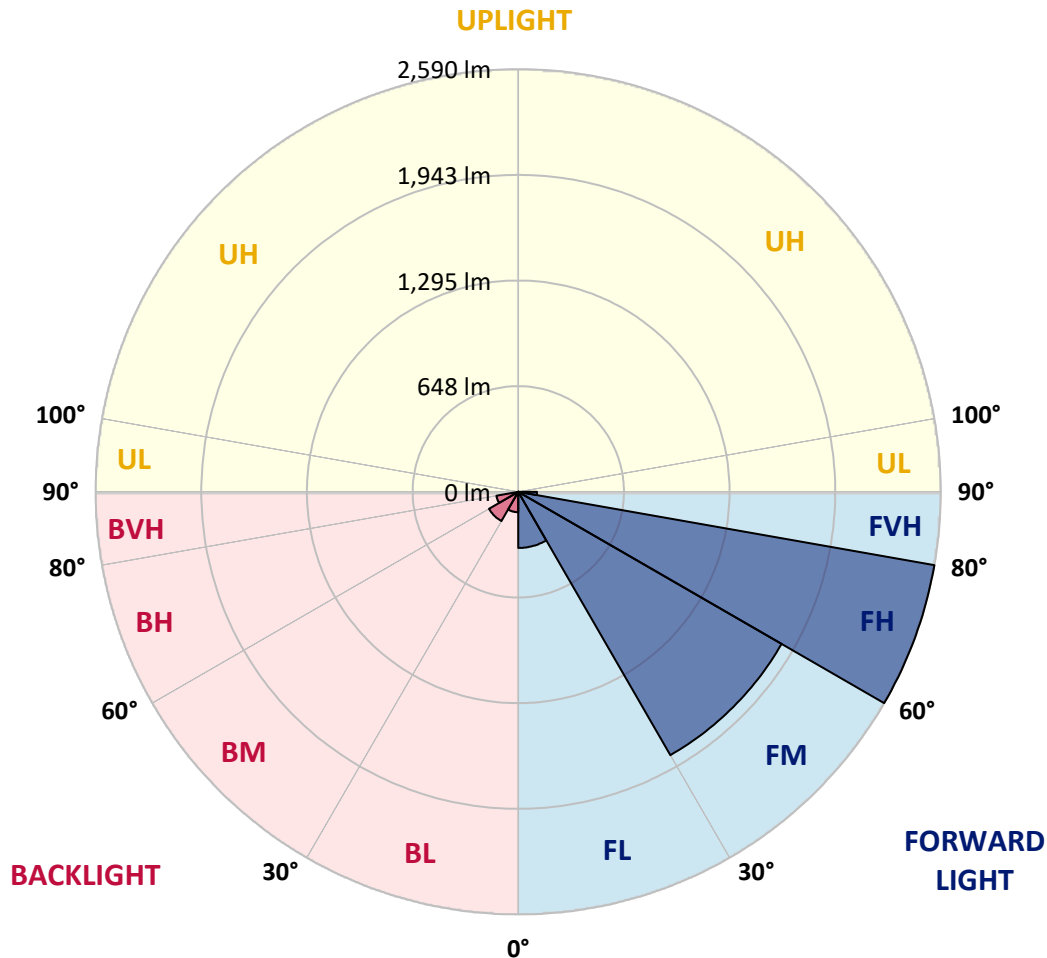


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	344.0	6.4			
FM (30°-60°)	1863.9	34.6			
FH (60°-80°)	2590.1	48.1			G2/5000
FVH (80°-90°)	114.4	2.1			G2/225
BL (0°-30°)	125.1	2.3	B1/500		
BM (30°-60°)	207.2	3.9	B0/220		
BH (60°-80°)	135.8	2.5	B1/500		G1/500
BVH (80°-90°)	0.4	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-G2**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4
2.5°	708.6	712.2	714.0	704.9	704.9	697.7	686.8	683.1	677.7	672.2	670.4
5°	744.9	750.3	748.5	737.6	732.2	717.6	703.1	688.6	674.0	661.3	661.3
7.5°	786.7	788.5	783.1	764.9	754.0	734.0	712.2	695.8	677.7	659.5	655.9
10°	823.0	821.2	813.9	795.8	775.8	750.3	726.7	708.6	686.8	665.0	663.1
12.5°	848.5	850.3	841.2	815.8	795.8	766.7	743.1	724.9	699.5	675.9	670.4
15°	870.3	875.7	864.8	839.4	810.3	784.9	766.7	743.1	714.0	686.8	683.1
17.5°	890.2	892.1	883.0	853.9	826.7	804.9	784.9	763.1	734.0	699.5	695.8
20°	901.1	906.6	901.1	864.8	839.4	823.0	806.7	784.9	752.2	719.5	715.8
22.5°	908.4	913.9	912.0	872.1	850.3	837.6	823.0	803.0	772.1	734.0	730.4
25°	912.0	915.7	919.3	879.3	861.2	855.7	843.0	824.8	795.8	755.8	752.2
27.5°	917.5	921.1	924.8	888.4	881.2	875.7	872.1	857.5	823.0	781.2	775.8
30°	926.6	932.0	935.7	904.8	904.8	910.2	910.2	890.2	852.1	808.5	804.9
32.5°	937.5	939.3	946.6	921.1	930.2	942.9	939.3	919.3	879.3	839.4	833.9
35°	966.5	966.5	979.3	946.6	957.5	968.4	972.0	957.5	921.1	881.2	879.3
37.5°	1037.4	1037.4	1048.3	995.6	993.8	1004.7	1017.4	1017.4	981.1	944.7	941.1
40°	1197.3	1197.3	1197.3	1075.6	1055.6	1068.3	1088.3	1099.2	1068.3	1042.9	1042.9
42.5°	1464.4	1466.2	1438.9	1222.7	1137.3	1159.1	1180.9	1204.6	1188.2	1170.0	1166.4
45°	1740.5	1731.4	1727.8	1438.9	1282.7	1271.8	1299.0	1339.0	1344.4	1333.5	1340.8
47.5°	1929.5	1938.6	1944.0	1707.8	1486.2	1411.7	1437.1	1493.4	1526.1	1524.3	1535.2
50°	2113.0	2118.4	2123.9	2004.0	1755.1	1587.9	1604.3	1680.6	1726.0	1740.5	1747.8
52.5°	2272.8	2258.3	2281.9	2265.6	2040.3	1789.6	1789.6	1876.8	1958.5	1964.0	1962.2
55°	2320.1	2329.2	2400.0	2449.1	2332.8	2036.7	2000.3	2093.0	2180.2	2225.6	2225.6
57.5°	2425.5	2434.5	2519.9	2630.8	2545.4	2280.1	2225.6	2316.4	2410.9	2498.1	2510.8
60°	2563.5	2565.4	2656.2	2825.2	2707.1	2499.9	2454.5	2558.1	2652.6	2801.5	2843.3
62.5°	2638.0	2645.3	2770.7	2992.3	2910.6	2692.5	2681.6	2776.1	2897.8	3159.5	3197.6
65°	2523.6	2570.8	2843.3	3092.2	3075.9	2872.4	2910.6	2986.9	3126.8	3510.1	3546.4
67.5°	2183.8	2236.5	2723.4	3186.7	3219.4	3041.4	3081.3	3192.2	3346.6	3775.4	3724.5
70°	2011.2	2054.8	2432.7	3239.4	3339.3	3230.3	3248.5	3352.0	3397.5	3553.7	3499.2
72.5°	1524.3	1569.7	2058.5	3059.5	3442.9	3428.3	3382.9	3297.5	3028.6	2796.1	2663.5
75°	674.0	726.7	1369.9	2390.9	3186.7	3541.0	3301.2	2823.3	2174.7	1587.9	1471.6
77.5°	298.0	328.8	530.5	1328.1	2394.6	3065.0	2610.8	1882.2	1091.9	590.5	548.7
80°	96.3	99.9	167.1	465.1	1224.5	2029.4	1598.8	904.8	336.1	138.1	129.0
82.5°	38.2	41.8	79.9	196.2	506.9	806.7	784.9	327.0	98.1	36.3	36.3
85°	10.9	12.7	40.0	103.6	179.9	227.1	278.0	109.0	52.7	10.9	10.9
87.5°	3.6	3.6	14.5	32.7	34.5	23.6	52.7	41.8	32.7	3.6	3.6
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°	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4	670.4
2.5°	666.8	663.1	654.1	646.8	643.2	637.7	630.4	626.8	626.8	625.0	619.5
5°	654.1	648.6	632.3	621.4	612.3	592.3	577.7	559.6	541.4	536.0	541.4
7.5°	648.6	637.7	615.9	594.1	555.9	503.3	468.7	430.6	417.9	401.5	403.3
10°	650.4	637.7	606.8	557.8	483.3	405.2	350.6	299.8	274.3	261.6	263.4
12.5°	655.9	641.3	597.7	508.7	401.5	307.0	223.5	183.5	176.2	176.2	176.2
15°	666.8	645.0	583.2	450.6	314.3	203.5	158.1	154.4	159.9	165.3	167.1
17.5°	677.7	655.9	561.4	390.6	228.9	152.6	147.2	147.2	152.6	158.1	159.9
20°	690.4	666.8	530.5	327.0	163.5	143.5	141.7	139.9	143.5	149.0	150.8
22.5°	710.4	677.7	494.2	252.5	141.7	138.1	134.4	132.6	134.4	139.9	141.7
25°	728.5	692.2	456.0	187.1	132.6	129.0	127.2	125.4	125.4	129.0	130.8
27.5°	750.3	708.6	414.2	139.9	121.7	119.9	118.1	116.3	114.5	118.1	119.9
30°	777.6	723.1	368.8	118.1	110.8	109.0	107.2	105.4	103.6	105.4	107.2
32.5°	812.1	743.1	316.1	107.2	101.7	96.3	94.5	94.5	92.7	92.7	94.5
35°	857.5	764.9	259.8	99.9	92.7	87.2	81.8	79.9	79.9	79.9	81.8
37.5°	924.8	804.9	205.3	92.7	85.4	76.3	70.9	65.4	65.4	65.4	65.4
40°	1017.4	848.5	159.9	87.2	79.9	67.2	60.0	52.7	49.1	47.2	49.1
42.5°	1161.0	913.9	123.5	79.9	76.3	60.0	49.1	40.0	32.7	30.9	32.7
45°	1319.0	984.7	98.1	74.5	69.0	50.9	38.2	27.3	20.0	18.2	20.0
47.5°	1518.9	1073.7	83.6	67.2	60.0	41.8	27.3	14.5	9.1	10.9	10.9
50°	1711.4	1161.0	76.3	61.8	52.7	34.5	16.4	7.3	3.6	5.5	5.5
52.5°	1924.0	1253.6	70.9	54.5	45.4	25.4	9.1	1.8	0.0	1.8	1.8
55°	2138.4	1337.2	65.4	49.1	36.3	18.2	3.6	0.0	0.0	0.0	1.8
57.5°	2371.0	1408.0	60.0	41.8	27.3	10.9	1.8	0.0	0.0	0.0	0.0
60°	2565.4	1462.5	54.5	36.3	18.2	5.5	0.0	0.0	0.0	0.0	0.0
62.5°	2743.4	1511.6	41.8	27.3	10.9	3.6	0.0	0.0	0.0	0.0	0.0
65°	2861.5	1522.5	29.1	18.2	7.3	1.8	0.0	0.0	0.0	0.0	0.0
67.5°	2808.8	1428.0	18.2	12.7	3.6	1.8	0.0	0.0	0.0	0.0	0.0
70°	2469.1	1199.1	12.7	7.3	1.8	1.8	0.0	0.0	0.0	0.0	0.0
72.5°	1727.8	774.0	10.9	5.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0
75°	912.0	279.8	7.3	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0
77.5°	323.4	61.8	3.6	1.8	0.0	1.8	0.0	0.0	0.0	0.0	0.0
80°	70.9	12.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	20.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.0	0.0	0.0	0.0	0.0	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)