

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: P594782

Luminaire Tested: **ISS-PA1E-727-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594782
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-PA1E-727-U-T4W-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 1050mA 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: 6606 lumens
Efficiency: N/A
Efficacy: 80.2 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

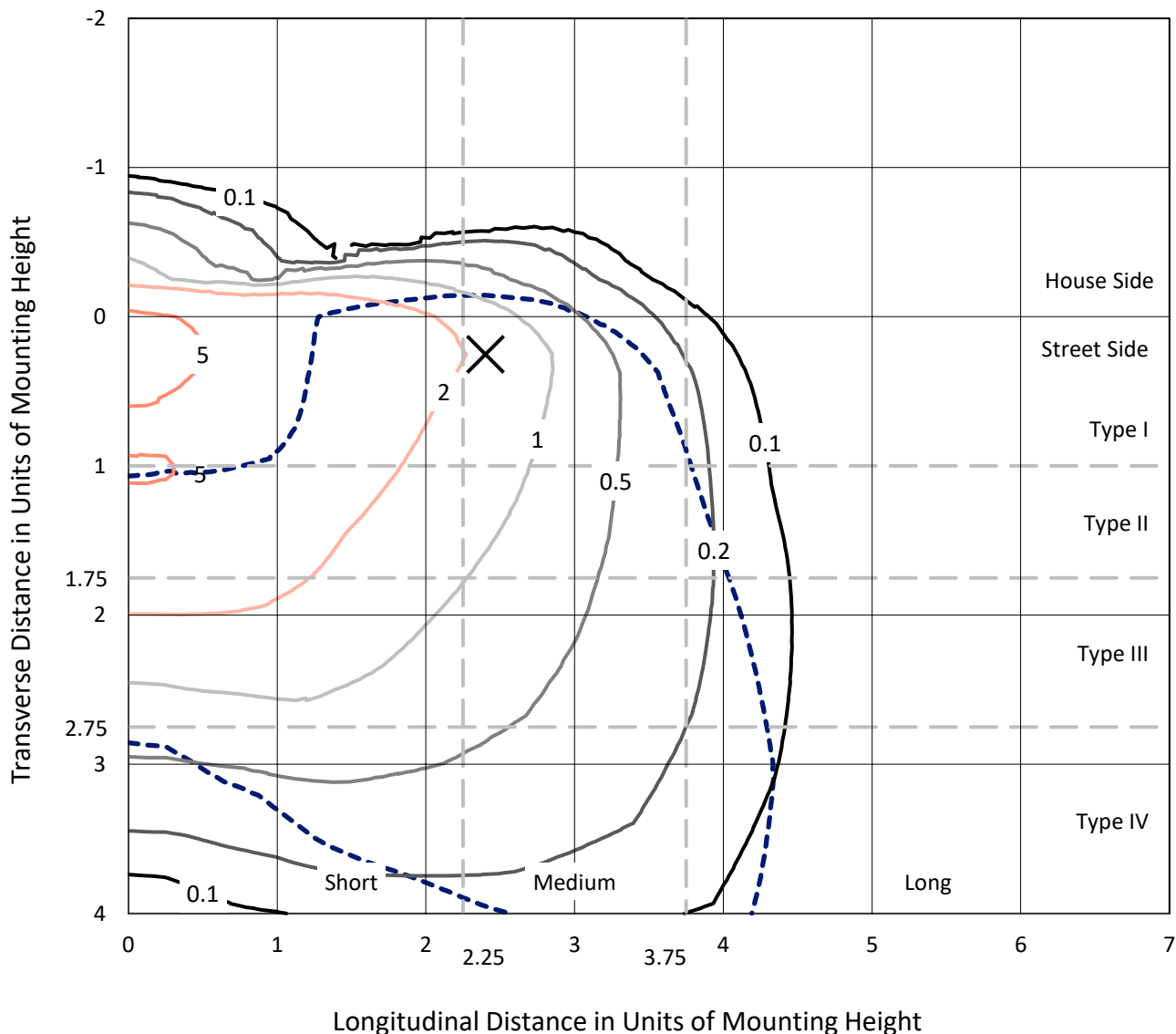
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

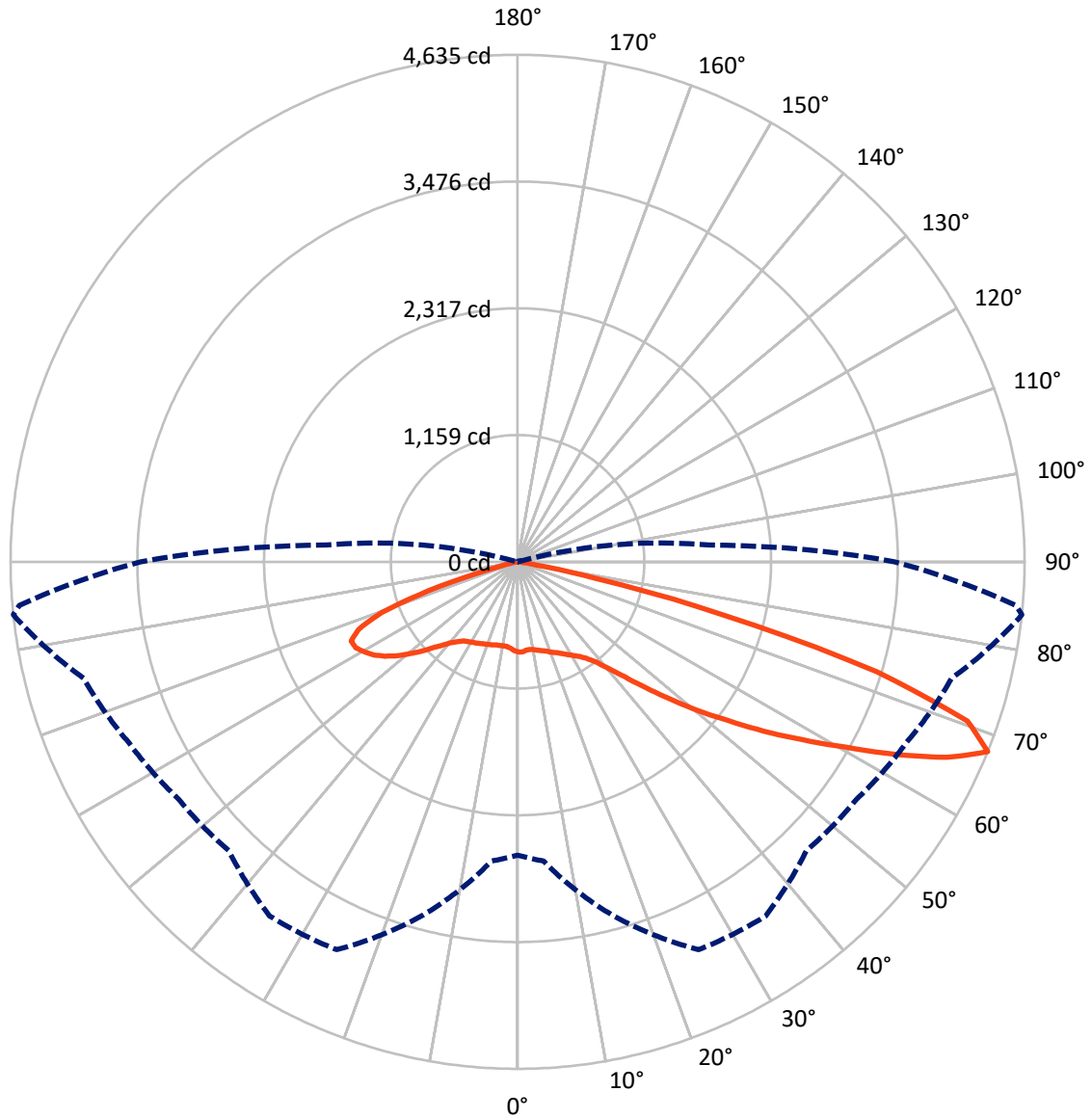
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.7 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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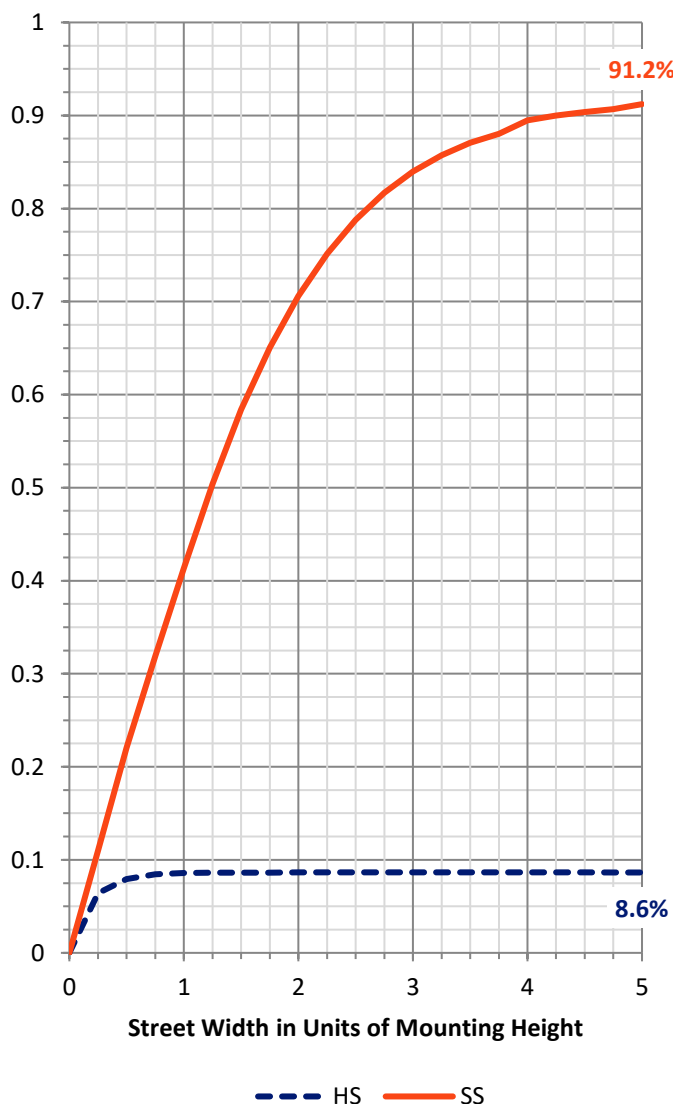
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	575.2	0.0	575.2
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	6030.8	0.0	6030.8
	% Fixture	91.3	0.0	91.3
Total	Lumens	6606.0	0.0	6606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	1.1
10°-20°	193.0	2.9
20°-30°	309.1	4.7
30°-40°	444.9	6.7
40°-50°	763.6	11.6
50°-60°	1334.1	20.2
60°-70°	1910.5	28.9
70°-80°	1436.0	21.7
80°-90°	140.9	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°	6606.0	100.0
0°-180°	6606.0	100.0

Coefficient of Utilization



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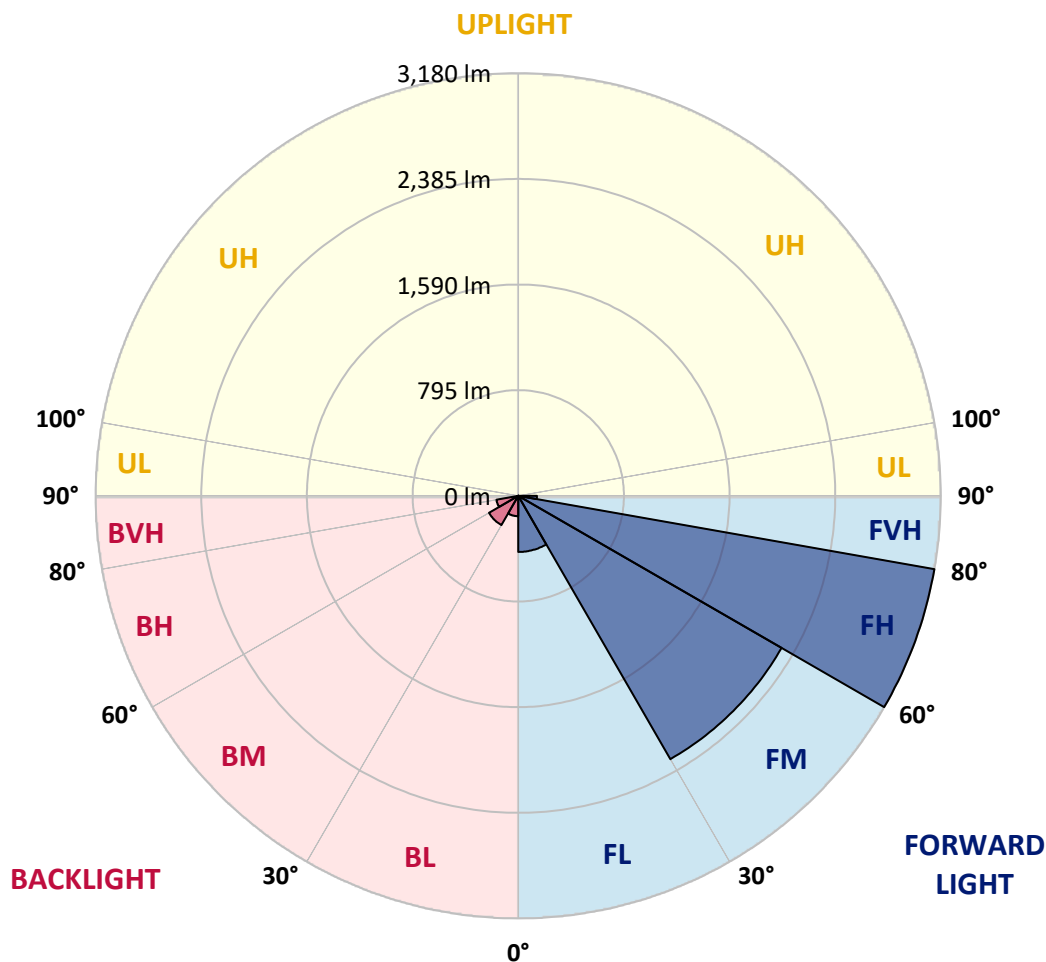
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.3	6.4			
FM (30°-60°)	2288.3	34.6			
FH (60°-80°)	3179.8	48.1			G2/5000
FVH (80°-90°)	140.5	2.1			G2/225
BL (0°-30°)	153.6	2.3	B1/500		
BM (30°-60°)	254.4	3.9	B1/1000		
BH (60°-80°)	166.8	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°	823.0	823.0	823.0	823.0	823.0	823.0	823.0	823.0	823.0	823.0	823.0
2.5°	869.9	874.3	876.6	865.4	865.4	856.5	843.1	838.6	831.9	825.3	823.0
5°	914.5	921.2	918.9	905.6	898.9	881.0	863.2	845.3	827.5	811.9	811.9
7.5°	965.8	968.0	961.3	939.0	925.6	901.1	874.3	854.3	831.9	809.6	805.2
10°	1010.4	1008.2	999.2	976.9	952.4	921.2	892.2	869.9	843.1	816.3	814.1
12.5°	1041.6	1043.8	1032.7	1001.5	976.9	941.2	912.2	889.9	858.7	829.7	823.0
15°	1068.4	1075.1	1061.7	1030.5	994.8	963.5	941.2	912.2	876.6	843.1	838.6
17.5°	1092.9	1095.1	1084.0	1048.3	1014.8	988.1	963.5	936.8	901.1	858.7	854.3
20°	1106.3	1113.0	1106.3	1061.7	1030.5	1010.4	990.3	963.5	923.4	883.2	878.8
22.5°	1115.2	1121.9	1119.7	1070.6	1043.8	1028.2	1010.4	985.8	947.9	901.1	896.6
25°	1119.7	1124.1	1128.6	1079.5	1057.2	1050.5	1034.9	1012.6	976.9	927.9	923.4
27.5°	1126.4	1130.8	1135.3	1090.7	1081.8	1075.1	1070.6	1052.8	1010.4	959.1	952.4
30°	1137.5	1144.2	1148.7	1110.8	1110.8	1117.4	1117.4	1092.9	1046.1	992.5	988.1
32.5°	1150.9	1153.1	1162.1	1130.8	1142.0	1157.6	1153.1	1128.6	1079.5	1030.5	1023.8
35°	1186.6	1186.6	1202.2	1162.1	1175.4	1188.8	1193.3	1175.4	1130.8	1081.8	1079.5
37.5°	1273.6	1273.6	1287.0	1222.3	1220.0	1233.4	1249.0	1249.0	1204.4	1159.8	1155.4
40°	1469.9	1469.9	1469.9	1320.4	1295.9	1311.5	1336.0	1349.4	1311.5	1280.3	1280.3
42.5°	1797.7	1800.0	1766.5	1501.1	1396.2	1423.0	1449.8	1478.8	1458.7	1436.4	1431.9
45°	2136.8	2125.6	2121.1	1766.5	1574.7	1561.3	1594.8	1643.8	1650.5	1637.1	1646.1
47.5°	2368.7	2379.9	2386.6	2096.6	1824.5	1733.0	1764.3	1833.4	1873.6	1871.3	1884.7
50°	2594.0	2600.7	2607.4	2460.2	2154.6	1949.4	1969.5	2063.1	2118.9	2136.8	2145.7
52.5°	2790.3	2772.4	2801.4	2781.3	2504.8	2197.0	2197.0	2304.0	2404.4	2411.1	2408.9
55°	2848.3	2859.4	2946.4	3006.6	2863.9	2500.3	2455.7	2569.5	2676.5	2732.3	2732.3
57.5°	2977.6	2988.8	3093.6	3229.7	3124.8	2799.2	2732.3	2843.8	2959.8	3066.8	3082.5
60°	3147.1	3149.4	3260.9	3468.3	3323.3	3069.1	3013.3	3140.4	3256.4	3439.3	3490.6
62.5°	3238.6	3247.5	3401.4	3673.5	3573.1	3305.5	3292.1	3408.1	3557.5	3878.7	3925.6
65°	3098.1	3156.1	3490.6	3796.2	3776.1	3526.3	3573.1	3666.8	3838.6	4309.2	4353.8
67.5°	2681.0	2745.7	3343.4	3912.2	3952.3	3733.7	3782.8	3918.9	4108.4	4634.8	4572.4
70°	2469.1	2522.6	2986.5	3976.9	4099.5	3965.7	3988.0	4115.1	4170.9	4362.7	4295.8
72.5°	1871.3	1927.1	2527.1	3756.0	4226.7	4208.8	4153.1	4048.2	3718.1	3432.6	3269.8
75°	827.5	892.2	1681.7	2935.2	3912.2	4347.1	4052.7	3466.1	2669.8	1949.4	1806.6
77.5°	365.8	403.7	651.3	1630.4	2939.7	3762.7	3205.1	2310.7	1340.5	724.9	673.6
80°	118.2	122.7	205.2	571.0	1503.3	2491.4	1962.8	1110.8	412.6	169.5	158.4
82.5°	46.8	51.3	98.1	240.9	622.3	990.3	963.5	401.5	120.4	44.6	44.6
85°	13.4	15.6	49.1	127.1	220.8	278.8	341.3	133.8	64.7	13.4	13.4
87.5°	4.5	4.5	17.8	40.1	42.4	29.0	64.7	51.3	40.1	4.5	4.5
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°	823.0	823.0	823.0	823.0	823.0	823.0	823.0	823.0	823.0	823.0	823.0
2.5°	818.6	814.1	803.0	794.0	789.6	782.9	774.0	769.5	769.5	767.3	760.6
5°	803.0	796.3	776.2	762.8	751.7	727.1	709.3	687.0	664.7	658.0	664.7
7.5°	796.3	782.9	756.1	729.4	682.5	617.8	575.5	528.6	513.0	492.9	495.2
10°	798.5	782.9	745.0	684.7	593.3	497.4	430.5	368.0	336.8	321.2	323.4
12.5°	805.2	787.3	733.8	624.5	492.9	376.9	274.3	225.3	216.4	216.4	216.4
15°	818.6	791.8	716.0	553.1	385.9	249.8	194.0	189.6	196.3	203.0	205.2
17.5°	831.9	805.2	689.2	479.5	281.0	187.4	180.7	180.7	187.4	194.0	196.3
20°	847.6	818.6	651.3	401.5	200.7	176.2	174.0	171.7	176.2	182.9	185.1
22.5°	872.1	831.9	606.7	310.0	174.0	169.5	165.1	162.8	165.1	171.7	174.0
25°	894.4	849.8	559.8	229.7	162.8	158.4	156.1	153.9	153.9	158.4	160.6
27.5°	921.2	869.9	508.5	171.7	149.4	147.2	145.0	142.7	140.5	145.0	147.2
30°	954.6	887.7	452.8	145.0	136.1	133.8	131.6	129.4	127.1	129.4	131.6
32.5°	997.0	912.2	388.1	131.6	124.9	118.2	116.0	116.0	113.8	113.8	116.0
35°	1052.8	939.0	319.0	122.7	113.8	107.1	100.4	98.1	98.1	98.1	100.4
37.5°	1135.3	988.1	252.0	113.8	104.8	93.7	87.0	80.3	80.3	80.3	80.3
40°	1249.0	1041.6	196.3	107.1	98.1	82.5	73.6	64.7	60.2	58.0	60.2
42.5°	1425.2	1121.9	151.7	98.1	93.7	73.6	60.2	49.1	40.1	37.9	40.1
45°	1619.3	1208.9	120.4	91.4	84.8	62.5	46.8	33.5	24.5	22.3	24.5
47.5°	1864.6	1318.2	102.6	82.5	73.6	51.3	33.5	17.8	11.2	13.4	13.4
50°	2101.1	1425.2	93.7	75.8	64.7	42.4	20.1	8.9	4.5	6.7	6.7
52.5°	2362.0	1539.0	87.0	66.9	55.8	31.2	11.2	2.2	0.0	2.2	2.2
55°	2625.2	1641.6	80.3	60.2	44.6	22.3	4.5	0.0	0.0	0.0	2.2
57.5°	2910.7	1728.6	73.6	51.3	33.5	13.4	2.2	0.0	0.0	0.0	0.0
60°	3149.4	1795.5	66.9	44.6	22.3	6.7	0.0	0.0	0.0	0.0	0.0
62.5°	3367.9	1855.7	51.3	33.5	13.4	4.5	0.0	0.0	0.0	0.0	0.0
65°	3512.9	1869.1	35.7	22.3	8.9	2.2	0.0	0.0	0.0	0.0	0.0
67.5°	3448.2	1753.1	22.3	15.6	4.5	2.2	0.0	0.0	0.0	0.0	0.0
70°	3031.2	1472.1	15.6	8.9	2.2	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	2121.1	950.2	13.4	6.7	2.2	2.2	0.0	0.0	0.0	0.0	0.0
75°	1119.7	343.5	8.9	4.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	397.0	75.8	4.5	2.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0
80°	87.0	15.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	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)