

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: P594841

Luminaire Tested: **ISS-PA1E-830-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594841
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: ISS-PA1E-830-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 80 CRI, 3000K, 1050mA 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: 6114 lumens
Efficiency: N/A
Efficacy: 74.2 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

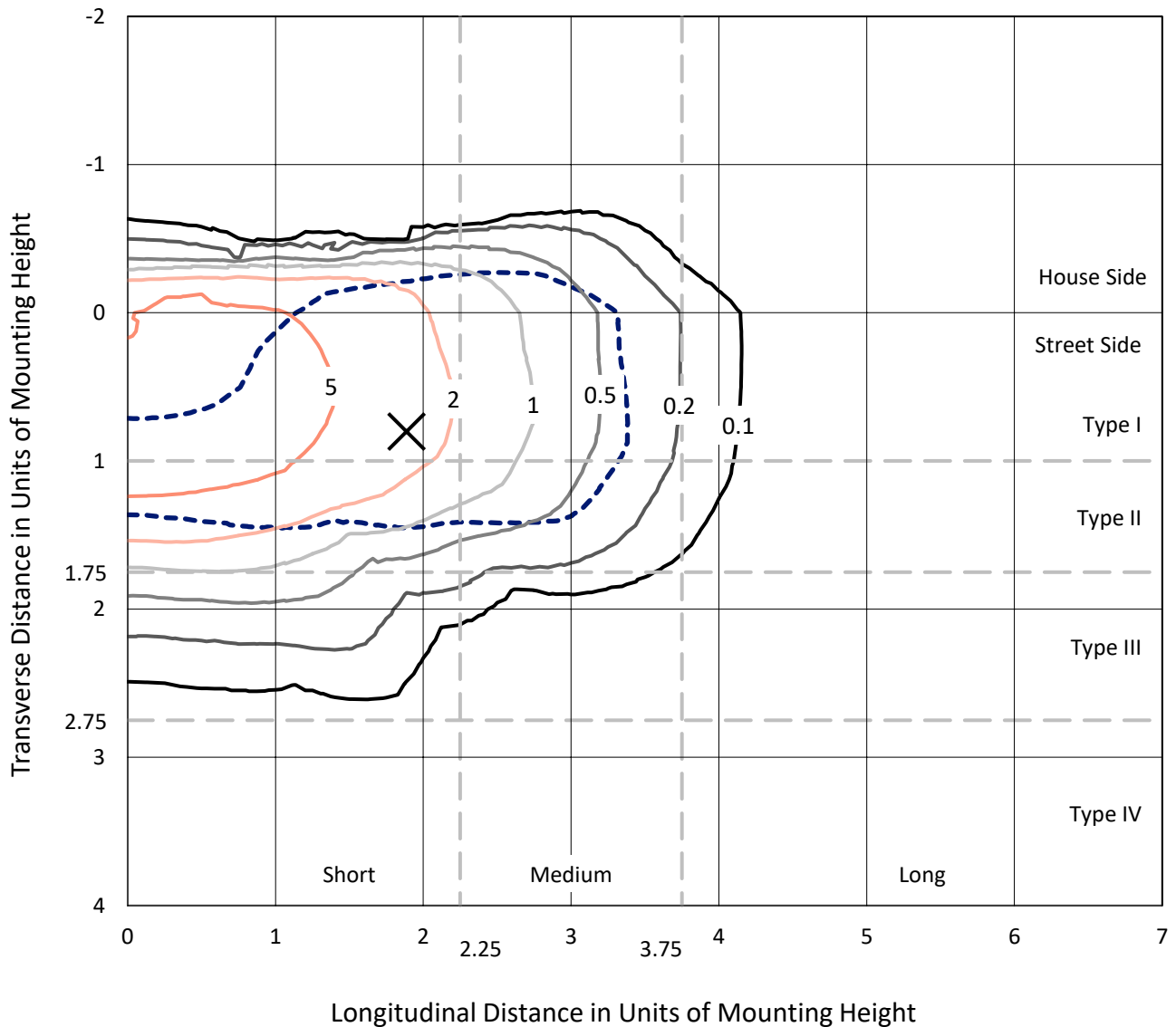
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

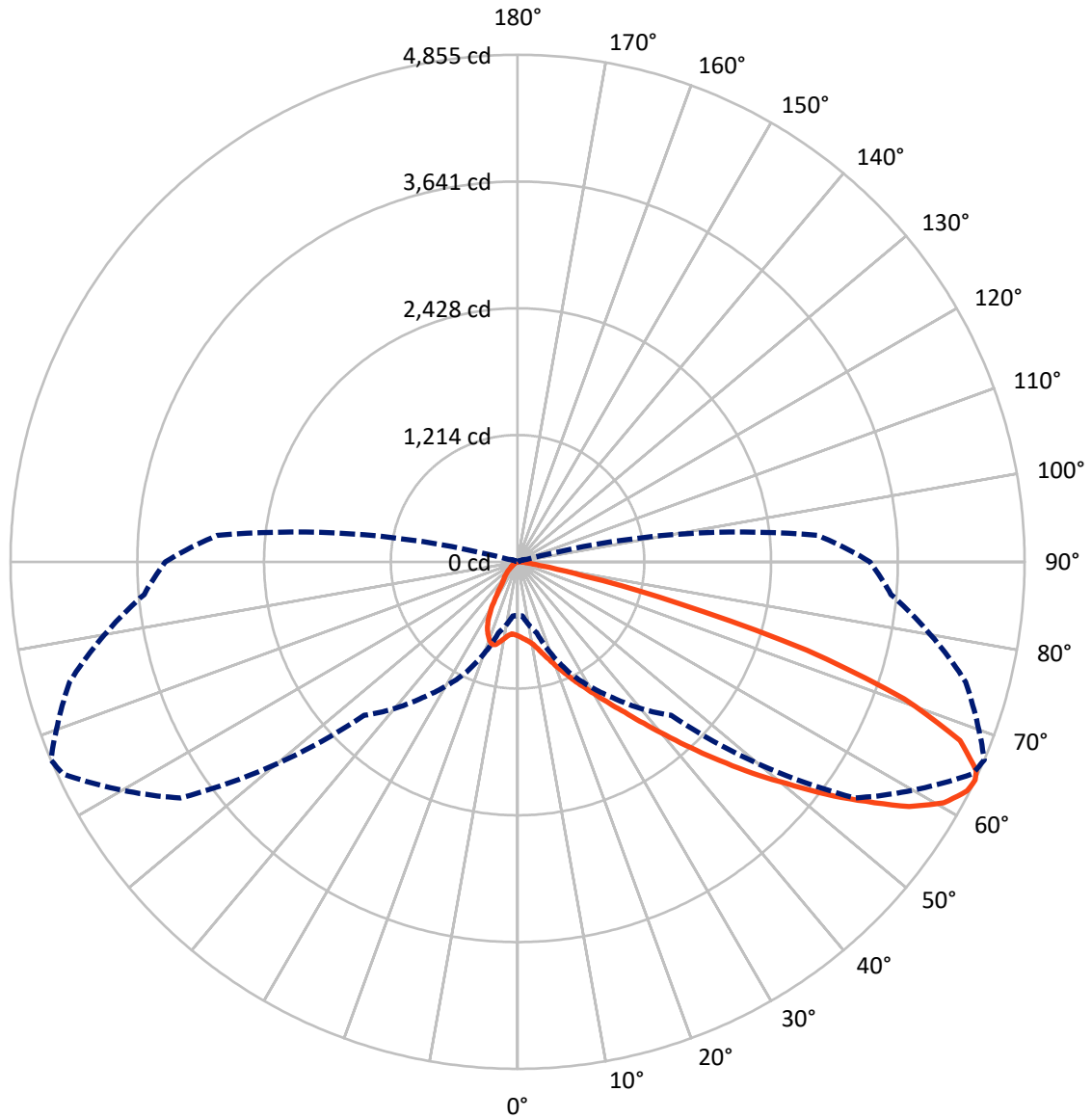
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.4 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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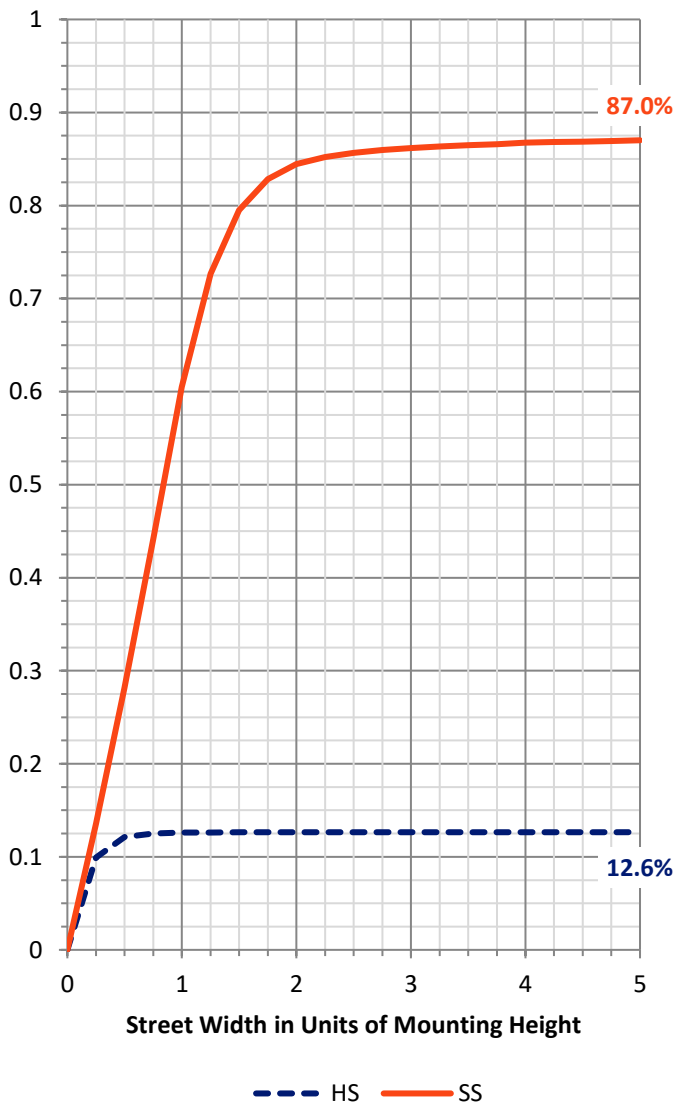
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	782.1	0.0	782.1
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5331.9	0.0	5331.9
	% Fixture	87.2	0.0	87.2
Total	Lumens	6114.0	0.0	6114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.1
10°-20°	198.9	3.3
20°-30°	360.9	5.9
30°-40°	691.3	11.3
40°-50°	1274.2	20.8
50°-60°	1645.7	26.9
60°-70°	1348.0	22.0
70°-80°	495.5	8.1
80°-90°	32.0	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°	6114.0	100.0
0°-180°	6114.0	100.0

Coefficient of Utilization

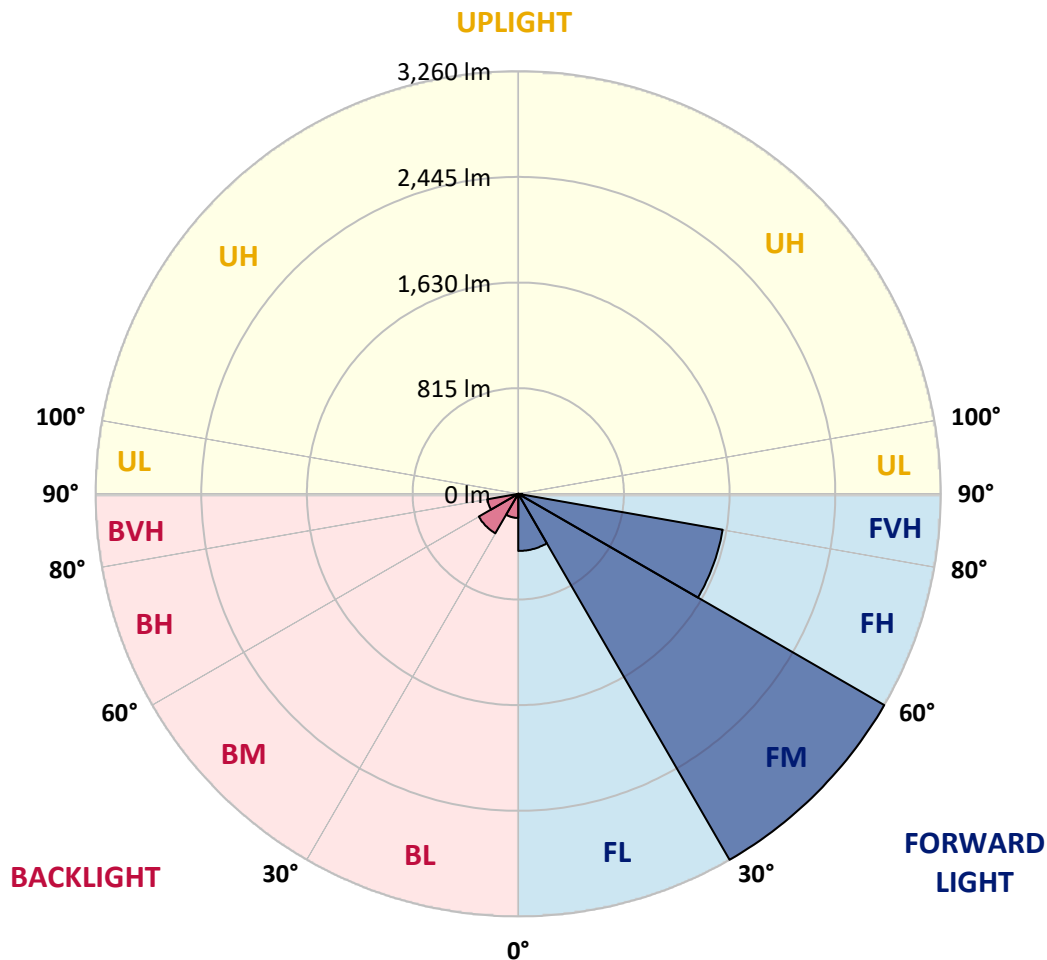


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	440.8	7.2			
FM (30°-60°)	3259.6	53.3			
FH (60°-80°)	1600.9	26.2			G1/1800
FVH (80°-90°)	30.5	0.5			G1/100
BL (0°-30°)	186.4	3.0	B1/500		
BM (30°-60°)	351.6	5.8	B1/1000		
BH (60°-80°)	242.6	4.0	B1/500		G1/500
BVH (80°-90°)	1.4	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	710.4	710.4	710.4	710.4	710.4	710.4	710.4	710.4	710.4	710.4	710.4
2.5°	735.6	735.6	739.8	737.7	737.7	733.5	727.2	729.3	727.2	725.1	718.8
5°	723.0	725.1	727.2	731.4	739.8	744.0	744.0	746.1	746.1	744.0	735.6
7.5°	716.7	720.9	725.1	729.3	739.8	746.1	756.7	769.3	769.3	771.4	763.0
10°	739.8	744.0	750.4	756.7	767.2	777.7	786.1	800.8	800.8	805.0	802.9
12.5°	788.2	788.2	790.3	794.5	809.2	821.8	836.5	849.1	851.2	853.3	847.0
15°	847.0	847.0	849.1	849.1	857.5	876.5	903.8	916.4	914.3	912.2	899.6
17.5°	914.3	914.3	914.3	916.4	920.6	931.1	962.6	987.9	985.8	983.7	958.4
20°	977.3	981.6	985.8	987.9	992.1	1000.5	1034.1	1063.5	1069.8	1061.4	1017.3
22.5°	1048.8	1050.9	1053.0	1059.3	1069.8	1074.0	1107.7	1151.8	1158.1	1147.6	1088.7
25°	1120.3	1124.5	1130.8	1139.2	1149.7	1170.7	1193.8	1252.7	1259.0	1246.4	1166.5
27.5°	1277.9	1275.8	1256.9	1242.2	1244.3	1259.0	1290.5	1353.6	1359.9	1347.3	1244.3
30°	1546.9	1521.7	1486.0	1420.8	1357.8	1364.1	1408.2	1469.2	1479.7	1462.9	1330.5
32.5°	1929.5	1904.3	1816.0	1673.1	1534.3	1488.1	1544.8	1603.7	1616.3	1597.4	1431.3
35°	2301.5	2295.2	2211.1	2038.8	1803.4	1675.2	1689.9	1765.5	1769.7	1746.6	1557.5
37.5°	2761.8	2738.7	2623.1	2429.7	2152.3	1923.2	1881.1	1952.6	1963.1	1935.8	1710.9
40°	3066.6	3058.2	2988.8	2852.2	2553.7	2265.8	2114.4	2183.8	2181.7	2141.8	1887.4
42.5°	3243.1	3247.3	3243.1	3178.0	3007.7	2677.7	2423.4	2427.6	2433.9	2391.9	2091.3
45°	3362.9	3362.9	3369.2	3421.8	3356.6	3169.6	2799.6	2705.0	2713.5	2648.3	2303.6
47.5°	3360.8	3373.4	3407.1	3529.0	3617.2	3627.7	3270.4	3028.7	3024.5	2925.7	2522.2
50°	3133.8	3125.4	3264.1	3537.4	3802.2	4006.1	3716.0	3371.3	3335.6	3213.7	2749.2
52.5°	2623.1	2650.4	2881.6	3283.0	3846.3	4262.5	4100.7	3745.5	3699.2	3499.5	2948.9
55°	2177.5	2206.9	2431.8	2824.9	3606.7	4352.9	4359.2	4142.7	4050.2	3747.6	3154.8
57.5°	1635.2	1692.0	2024.1	2394.0	3081.3	4128.0	4451.7	4523.1	4422.2	3987.2	3323.0
60°	1044.6	1078.2	1450.3	1906.4	2497.0	3539.5	4432.7	4743.8	4689.2	4205.8	3463.8
62.5°	683.1	702.0	958.4	1435.5	1902.2	2667.2	4207.9	4832.1	4832.1	4352.9	3568.9
64°	514.9	519.2	702.0	1166.5	1586.9	2078.7	3943.0	4804.8	4855.2	4441.2	3589.9
65°	407.8	409.9	548.6	968.9	1425.0	1704.6	3711.8	4745.9	4827.9	4474.8	3602.5
67.5°	285.8	292.2	355.2	559.1	1021.5	983.7	2751.3	4468.5	4569.4	4485.3	3585.7
70°	248.0	256.4	298.5	365.7	729.3	571.7	1462.9	3808.5	3928.3	4178.4	3337.7
72.5°	189.2	199.7	250.1	309.0	512.8	386.7	565.4	2705.0	2894.2	3230.5	2755.5
75°	136.6	140.8	185.0	252.2	359.4	298.5	243.8	1395.6	1586.9	1906.4	1713.0
77.5°	86.2	92.5	126.1	189.2	321.6	227.0	145.0	508.6	641.1	830.2	748.2
80°	50.4	52.5	75.7	130.3	216.5	168.1	92.5	180.8	218.6	309.0	199.7
82.5°	29.4	31.5	48.3	88.3	140.8	130.3	58.9	92.5	103.0	117.7	42.0
85°	10.5	10.5	33.6	52.5	75.7	65.2	33.6	48.3	52.5	65.2	12.6
87.5°	2.1	2.1	16.8	27.3	27.3	10.5	16.8	21.0	25.2	35.7	4.2
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°	710.4	710.4	710.4	710.4	710.4	710.4	710.4	710.4	710.4	710.4	710.4
2.5°	716.7	710.4	704.1	695.7	689.4	676.8	670.5	662.1	660.0	655.8	653.7
5°	733.5	723.0	708.3	687.3	674.7	655.8	643.2	630.5	628.4	624.2	622.1
7.5°	756.7	746.1	727.2	704.1	683.1	664.2	649.5	630.5	611.6	596.9	596.9
10°	794.5	781.9	756.7	735.6	710.4	670.5	601.1	538.1	498.1	472.9	464.5
12.5°	840.7	823.9	796.6	771.4	723.0	596.9	489.7	407.8	340.5	309.0	302.7
15°	889.1	874.4	847.0	809.2	664.2	498.1	357.3	231.2	166.0	136.6	140.8
17.5°	941.6	920.6	889.1	813.4	584.3	372.0	191.3	117.7	100.9	96.7	96.7
20°	996.3	968.9	937.4	767.2	481.3	214.4	109.3	88.3	82.0	75.7	77.8
22.5°	1055.1	1021.5	973.1	697.8	344.7	115.6	84.1	71.5	63.1	61.0	61.0
25°	1118.2	1069.8	1008.9	617.9	199.7	88.3	69.4	56.7	50.4	48.3	46.2
27.5°	1185.4	1124.5	1017.3	512.8	113.5	73.6	54.6	44.1	37.8	35.7	35.7
30°	1246.4	1179.1	998.4	380.4	86.2	61.0	44.1	33.6	29.4	29.4	29.4
32.5°	1328.4	1240.1	939.5	237.5	69.4	48.3	33.6	27.3	23.1	23.1	23.1
35°	1435.5	1330.5	880.7	126.1	56.7	39.9	27.3	21.0	18.9	18.9	18.9
37.5°	1582.7	1450.3	828.1	79.9	46.2	31.5	21.0	16.8	14.7	14.7	14.7
40°	1734.0	1593.2	754.6	61.0	37.8	25.2	16.8	12.6	10.5	10.5	12.6
42.5°	1923.2	1759.2	670.5	52.5	31.5	21.0	12.6	8.4	6.3	8.4	8.4
45°	2114.4	1933.7	552.8	44.1	27.3	16.8	8.4	4.2	4.2	6.3	6.3
47.5°	2312.0	2118.6	428.8	37.8	23.1	12.6	6.3	2.1	2.1	4.2	4.2
50°	2515.9	2301.5	319.5	33.6	18.9	10.5	4.2	2.1	0.0	2.1	2.1
52.5°	2719.8	2478.1	248.0	29.4	16.8	8.4	2.1	0.0	0.0	0.0	2.1
55°	2908.9	2637.8	197.6	25.2	14.7	6.3	2.1	0.0	0.0	0.0	0.0
57.5°	3068.7	2755.5	157.6	23.1	12.6	4.2	2.1	0.0	0.0	0.0	0.0
60°	3220.0	2848.0	121.9	18.9	10.5	4.2	2.1	0.0	0.0	0.0	0.0
62.5°	3327.2	2883.7	98.8	16.8	8.4	4.2	0.0	0.0	0.0	0.0	0.0
64°	3373.4	2887.9	86.2	14.7	8.4	4.2	2.1	0.0	0.0	0.0	0.0
65°	3400.8	2875.3	79.9	14.7	8.4	4.2	2.1	0.0	0.0	0.0	0.0
67.5°	3407.1	2805.9	61.0	12.6	6.3	2.1	2.1	0.0	0.0	0.0	0.0
70°	3222.1	2564.2	44.1	8.4	4.2	2.1	0.0	0.0	0.0	0.0	0.0
72.5°	2692.4	1958.9	29.4	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
75°	1681.5	847.0	16.8	6.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	695.7	256.4	10.5	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0
80°	159.7	61.0	4.2	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	37.8	10.5	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	8.4	2.1	2.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	2.1	2.1	2.1	2.1	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)