

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: P594778

Luminaire Tested: **ISS-PA1E-727-U-T2U-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P594778
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-727-U-T2U-HSS
Description: IMPACT ELITE LED QUARTER SPHERE LUMINAIRE
(1) 70 CRI, 2700K, 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: 6434 lumens
Efficiency: N/A
Efficacy: 78.1 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

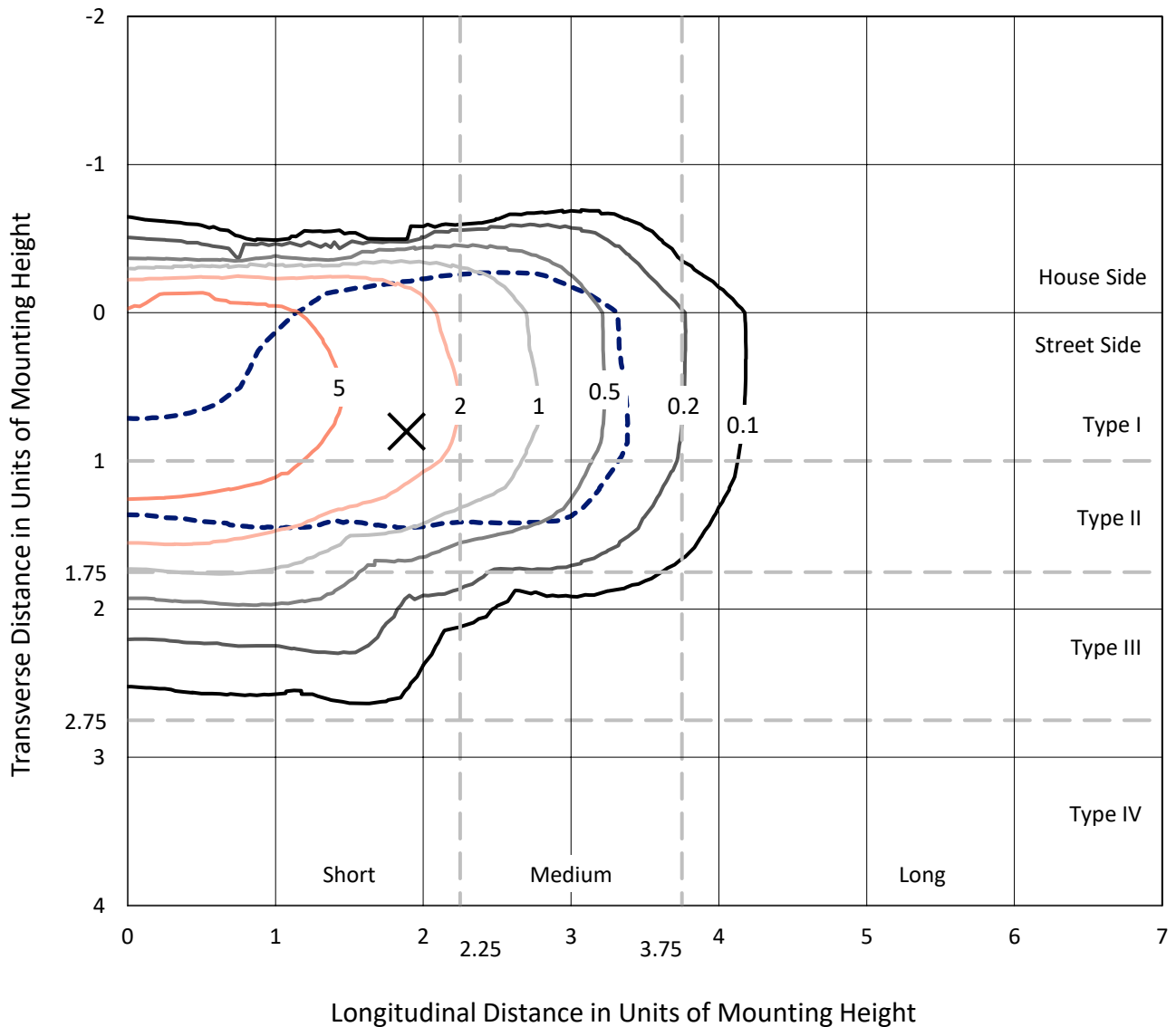
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

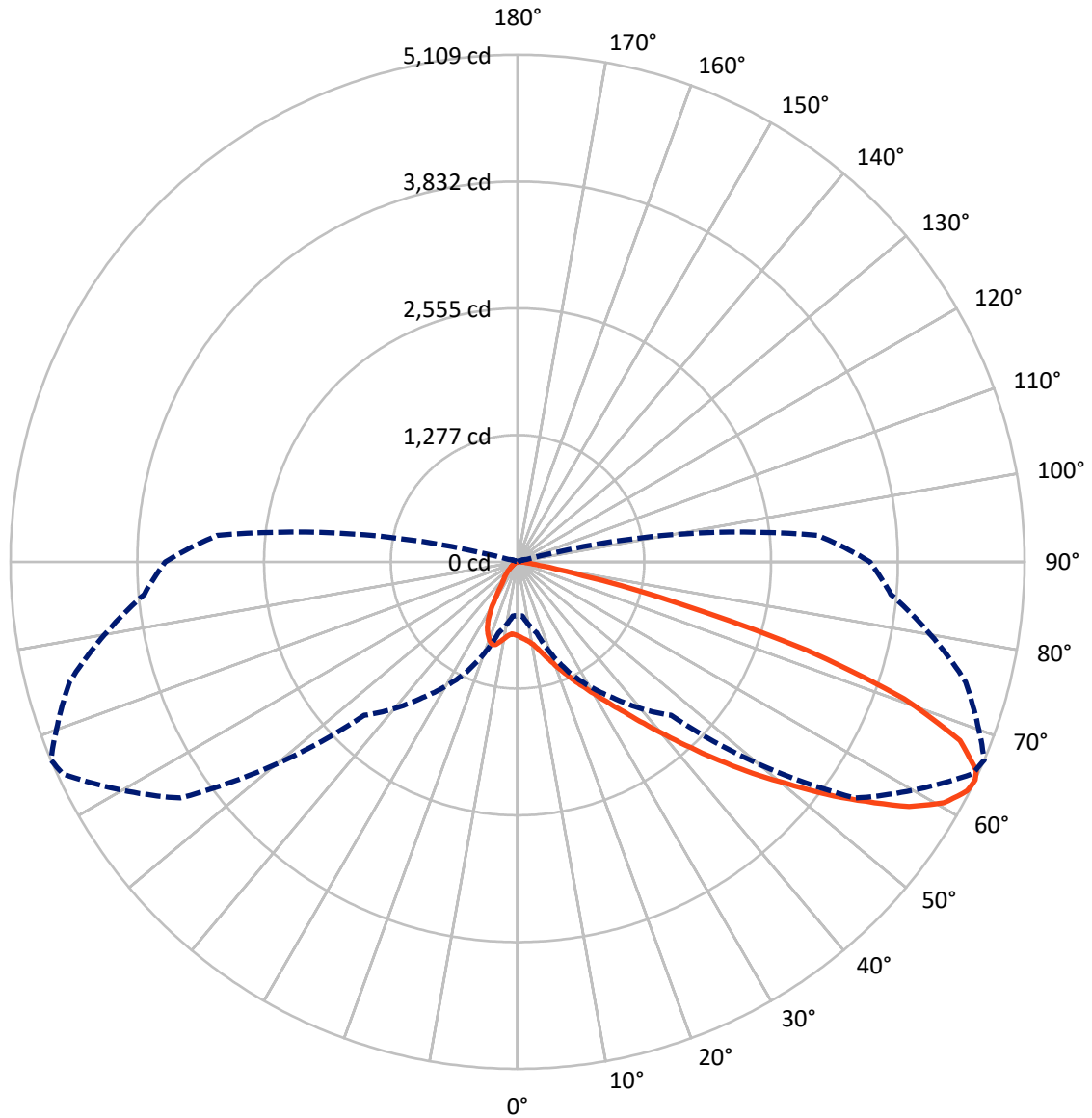
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.9 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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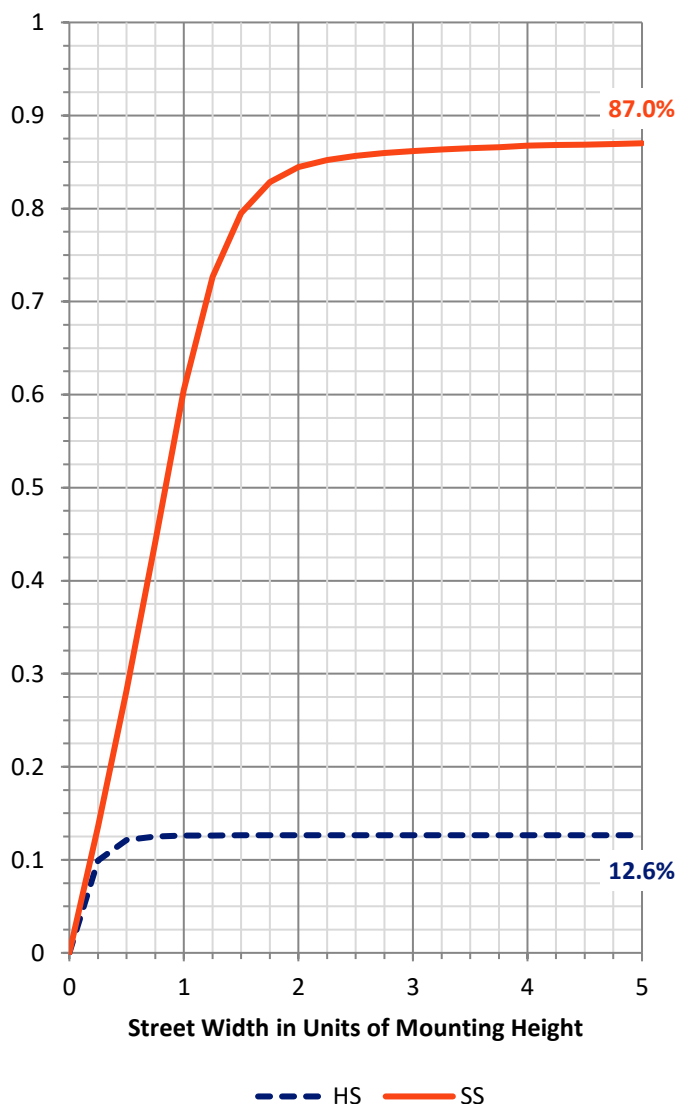
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	823.0	0.0	823.0
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	5611.0	0.0	5611.0
	% Fixture	87.2	0.0	87.2
Total	Lumens	6434.0	0.0	6434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	1.1
10°-20°	209.3	3.3
20°-30°	379.8	5.9
30°-40°	727.5	11.3
40°-50°	1340.9	20.8
50°-60°	1731.9	26.9
60°-70°	1418.6	22.0
70°-80°	521.5	8.1
80°-90°	33.6	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°	6434.0	100.0
0°-180°	6434.0	100.0

Coefficient of Utilization



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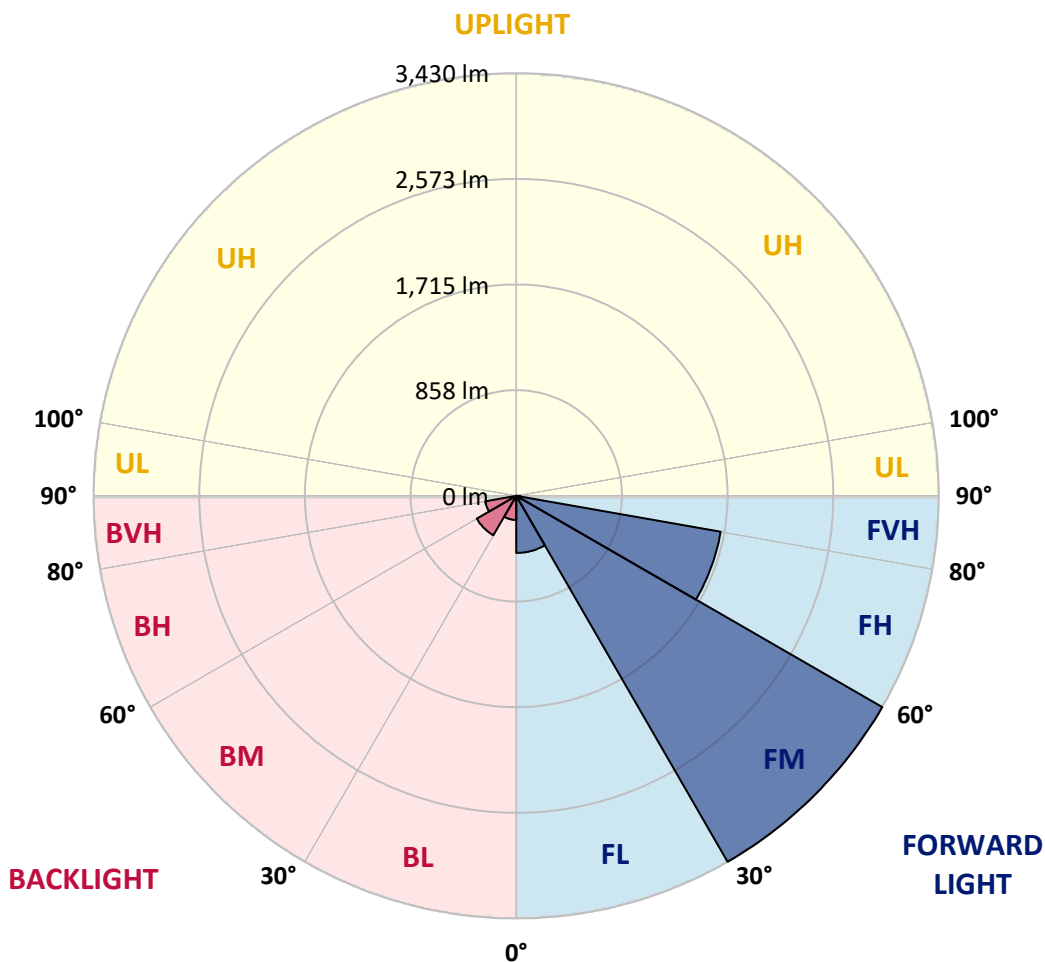
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	463.9	7.2			
FM (30°-60°)	3430.3	53.3			
FH (60°-80°)	1684.7	26.2			G1/1800
FVH (80°-90°)	32.1	0.5			G1/100
BL (0°-30°)	196.2	3.0	B1/500		
BM (30°-60°)	370.0	5.8	B1/1000		
BH (60°-80°)	255.3	4.0	B1/500		G1/500
BVH (80°-90°)	1.5	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°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6
2.5°	774.1	774.1	778.6	776.4	776.4	771.9	765.3	767.5	765.3	763.1	756.4
5°	760.9	763.1	765.3	769.7	778.6	783.0	783.0	785.2	785.2	783.0	774.1
7.5°	754.2	758.7	763.1	767.5	778.6	785.2	796.3	809.5	809.5	811.7	802.9
10°	778.6	783.0	789.6	796.3	807.3	818.4	827.2	842.7	842.7	847.1	844.9
12.5°	829.4	829.4	831.6	836.1	851.6	864.8	880.3	893.6	895.8	898.0	891.4
15°	891.4	891.4	893.6	893.6	902.4	922.3	951.1	964.4	962.1	959.9	946.7
17.5°	962.1	962.1	962.1	964.4	968.8	979.8	1013.0	1039.6	1037.3	1035.1	1008.6
20°	1028.5	1032.9	1037.3	1039.6	1044.0	1052.8	1088.2	1119.2	1125.8	1117.0	1070.5
22.5°	1103.7	1105.9	1108.1	1114.8	1125.8	1130.2	1165.6	1212.1	1218.7	1207.7	1145.7
25°	1178.9	1183.3	1190.0	1198.8	1209.9	1232.0	1256.3	1318.3	1324.9	1311.6	1227.6
27.5°	1344.8	1342.6	1322.7	1307.2	1309.4	1324.9	1358.1	1424.4	1431.1	1417.8	1309.4
30°	1627.9	1601.4	1563.8	1495.2	1428.8	1435.5	1481.9	1546.1	1557.1	1539.4	1400.1
32.5°	2030.5	2003.9	1911.0	1760.6	1614.6	1566.0	1625.7	1687.6	1700.9	1681.0	1506.3
35°	2422.0	2415.3	2326.8	2145.5	1897.8	1762.8	1778.3	1857.9	1862.4	1838.0	1639.0
37.5°	2906.3	2882.0	2760.4	2556.9	2264.9	2023.8	1979.6	2054.8	2065.9	2037.1	1800.4
40°	3227.1	3218.2	3145.2	3001.5	2687.4	2384.4	2225.1	2298.1	2295.9	2253.9	1986.2
42.5°	3412.9	3417.3	3412.9	3344.3	3165.1	2817.9	2550.2	2554.7	2561.3	2517.1	2200.8
45°	3538.9	3538.9	3545.6	3600.9	3532.3	3335.4	2946.2	2846.6	2855.5	2786.9	2424.2
47.5°	3536.7	3550.0	3585.4	3713.7	3806.6	3817.6	3441.6	3187.2	3182.8	3078.9	2654.2
50°	3297.8	3289.0	3435.0	3722.5	4001.2	4215.8	3910.5	3547.8	3510.2	3381.9	2893.1
52.5°	2760.4	2789.1	3032.4	3454.9	4047.7	4485.6	4315.3	3941.5	3892.8	3682.7	3103.2
55°	2291.5	2322.4	2559.1	2972.7	3795.5	4580.7	4587.3	4359.5	4262.2	3943.7	3320.0
57.5°	1720.8	1780.5	2130.0	2519.3	3242.5	4344.0	4684.7	4759.9	4653.7	4195.8	3496.9
60°	1099.3	1134.7	1526.2	2006.1	2627.7	3724.7	4664.8	4992.1	4934.6	4425.9	3645.1
62.5°	718.8	738.8	1008.6	1510.7	2001.7	2806.8	4428.1	5085.0	5085.0	4580.7	3755.7
64°	541.9	546.3	738.8	1227.6	1669.9	2187.5	4149.4	5056.2	5109.3	4673.6	3777.8
65°	429.1	431.3	577.3	1019.7	1499.6	1793.8	3906.1	4994.3	5080.6	4709.0	3791.1
67.5°	300.8	307.4	373.8	588.3	1075.0	1035.1	2895.3	4702.4	4808.5	4720.0	3773.4
70°	261.0	269.8	314.1	384.9	767.5	601.6	1539.4	4007.8	4133.9	4397.1	3512.4
72.5°	199.1	210.1	263.2	325.1	539.7	407.0	595.0	2846.6	3045.7	3399.6	2899.7
75°	143.8	148.2	194.6	265.4	378.2	314.1	256.6	1468.7	1669.9	2006.1	1802.6
77.5°	90.7	97.3	132.7	199.1	338.4	238.9	152.6	535.3	674.6	873.7	787.4
80°	53.1	55.3	79.6	137.1	227.8	176.9	97.3	190.2	230.0	325.1	210.1
82.5°	31.0	33.2	50.9	92.9	148.2	137.1	61.9	97.3	108.4	123.9	44.2
85°	11.1	11.1	35.4	55.3	79.6	68.6	35.4	50.9	55.3	68.6	13.3
87.5°	2.2	2.2	17.7	28.8	28.8	11.1	17.7	22.1	26.5	37.6	4.4
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°	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6	747.6
2.5°	754.2	747.6	741.0	732.1	725.5	712.2	705.6	696.7	694.5	690.1	687.9
5°	771.9	760.9	745.4	723.3	710.0	690.1	676.8	663.5	661.3	656.9	654.7
7.5°	796.3	785.2	765.3	741.0	718.8	698.9	683.5	663.5	643.6	628.2	628.2
10°	836.1	822.8	796.3	774.1	747.6	705.6	632.6	566.2	524.2	497.7	488.8
12.5°	884.7	867.0	838.3	811.7	760.9	628.2	515.4	429.1	358.3	325.1	318.5
15°	935.6	920.1	891.4	851.6	698.9	524.2	376.0	243.3	174.7	143.8	148.2
17.5°	990.9	968.8	935.6	856.0	614.9	391.5	201.3	123.9	106.2	101.7	101.7
20°	1048.4	1019.7	986.5	807.3	506.5	225.6	115.0	92.9	86.3	79.6	81.8
22.5°	1110.3	1075.0	1024.1	734.3	362.7	121.7	88.5	75.2	66.4	64.1	64.1
25°	1176.7	1125.8	1061.7	650.3	210.1	92.9	73.0	59.7	53.1	50.9	48.7
27.5°	1247.5	1183.3	1070.5	539.7	119.4	77.4	57.5	46.4	39.8	37.6	37.6
30°	1311.6	1240.8	1050.6	400.3	90.7	64.1	46.4	35.4	31.0	31.0	31.0
32.5°	1397.9	1305.0	988.7	249.9	73.0	50.9	35.4	28.8	24.3	24.3	24.3
35°	1510.7	1400.1	926.8	132.7	59.7	42.0	28.8	22.1	19.9	19.9	19.9
37.5°	1665.5	1526.2	871.5	84.0	48.7	33.2	22.1	17.7	15.5	15.5	15.5
40°	1824.8	1676.6	794.0	64.1	39.8	26.5	17.7	13.3	11.1	11.1	13.3
42.5°	2023.8	1851.3	705.6	55.3	33.2	22.1	13.3	8.8	6.6	8.8	8.8
45°	2225.1	2034.9	581.7	46.4	28.8	17.7	8.8	4.4	4.4	6.6	6.6
47.5°	2433.0	2229.5	451.2	39.8	24.3	13.3	6.6	2.2	2.2	4.4	4.4
50°	2647.6	2422.0	336.2	35.4	19.9	11.1	4.4	2.2	0.0	2.2	2.2
52.5°	2862.1	2607.7	261.0	31.0	17.7	8.8	2.2	0.0	0.0	0.0	2.2
55°	3061.2	2775.8	207.9	26.5	15.5	6.6	2.2	0.0	0.0	0.0	0.0
57.5°	3229.3	2899.7	165.9	24.3	13.3	4.4	2.2	0.0	0.0	0.0	0.0
60°	3388.5	2997.0	128.3	19.9	11.1	4.4	2.2	0.0	0.0	0.0	0.0
62.5°	3501.3	3034.6	104.0	17.7	8.8	4.4	0.0	0.0	0.0	0.0	0.0
64°	3550.0	3039.1	90.7	15.5	8.8	4.4	2.2	0.0	0.0	0.0	0.0
65°	3578.7	3025.8	84.0	15.5	8.8	4.4	2.2	0.0	0.0	0.0	0.0
67.5°	3585.4	2952.8	64.1	13.3	6.6	2.2	2.2	0.0	0.0	0.0	0.0
70°	3390.7	2698.4	46.4	8.8	4.4	2.2	0.0	0.0	0.0	0.0	0.0
72.5°	2833.4	2061.4	31.0	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	1769.5	891.4	17.7	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	732.1	269.8	11.1	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0
80°	168.1	64.1	4.4	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	39.8	11.1	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
85°	8.8	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	2.2	2.2	2.2	2.2	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)