

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: P646796

Luminaire Tested: **GALN-SA2C-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646796
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7321 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

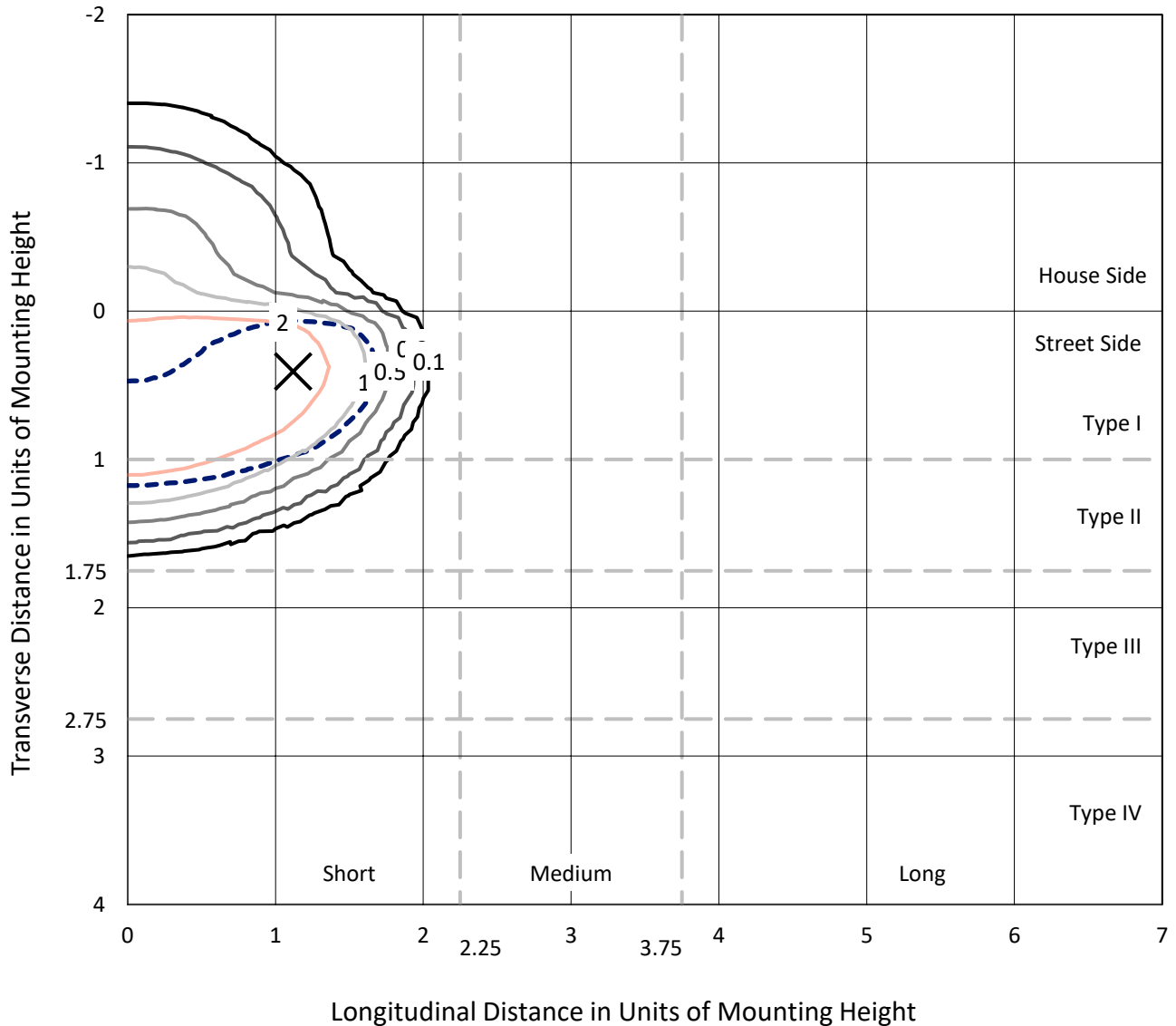
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

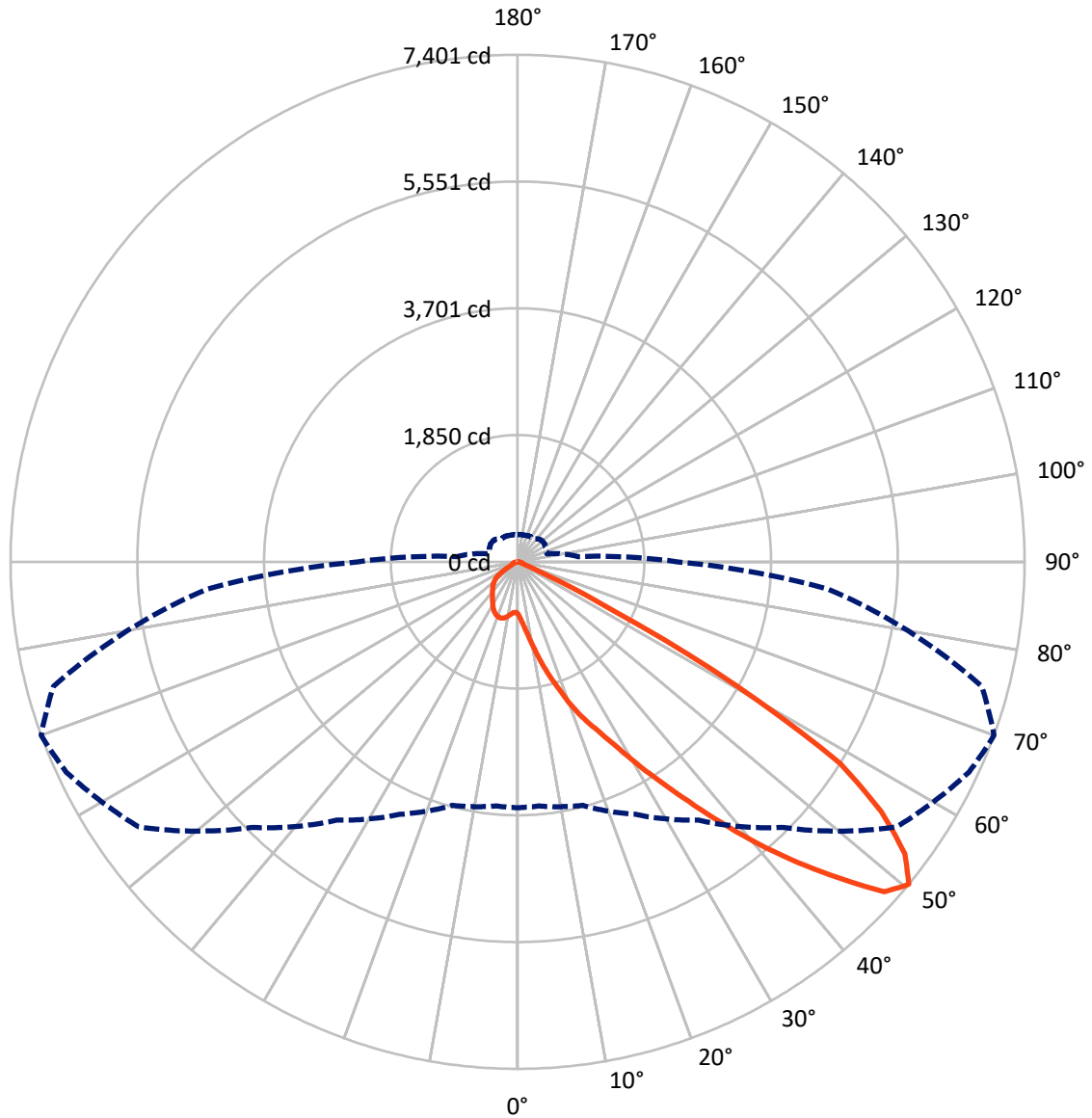
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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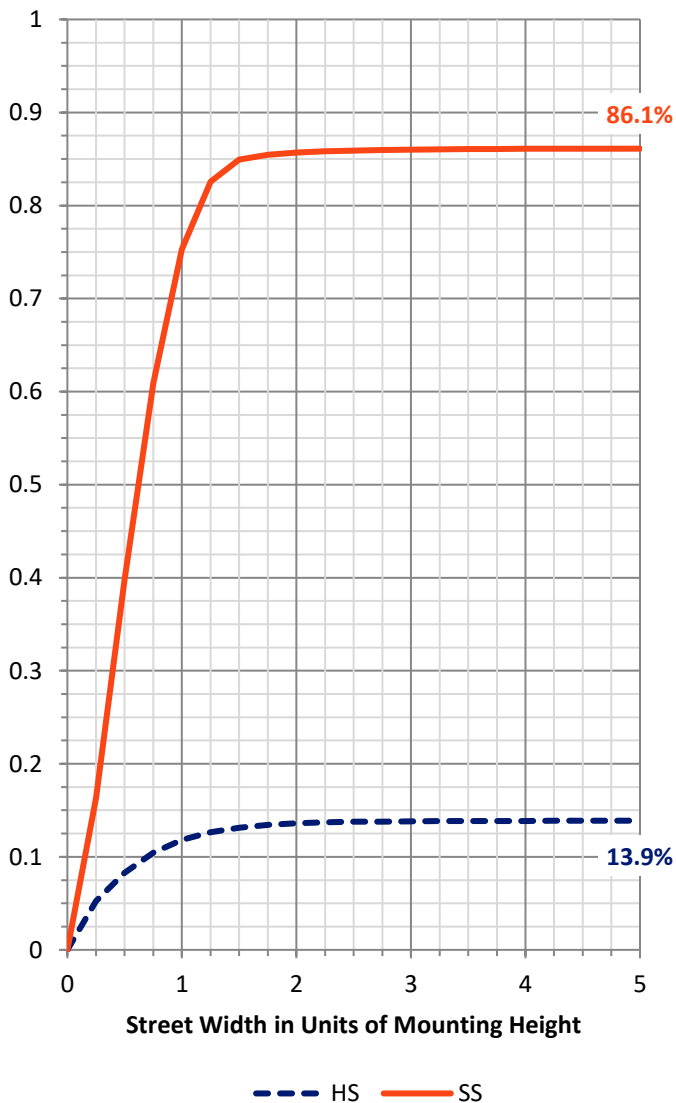
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1022.4	0.0	1022.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6298.6	0.0	6298.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	7321.0	0.0	7321.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	1.3
10°-20°	426.5	5.8
20°-30°	894.8	12.2
30°-40°	1542.4	21.1
40°-50°	2254.2	30.8
50°-60°	1755.6	24.0
60°-70°	297.5	4.1
70°-80°	40.9	0.6
80°-90°	10.6	0.1
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°	7321.0	100.0
0°-180°	7321.0	100.0

Coefficient of Utilization

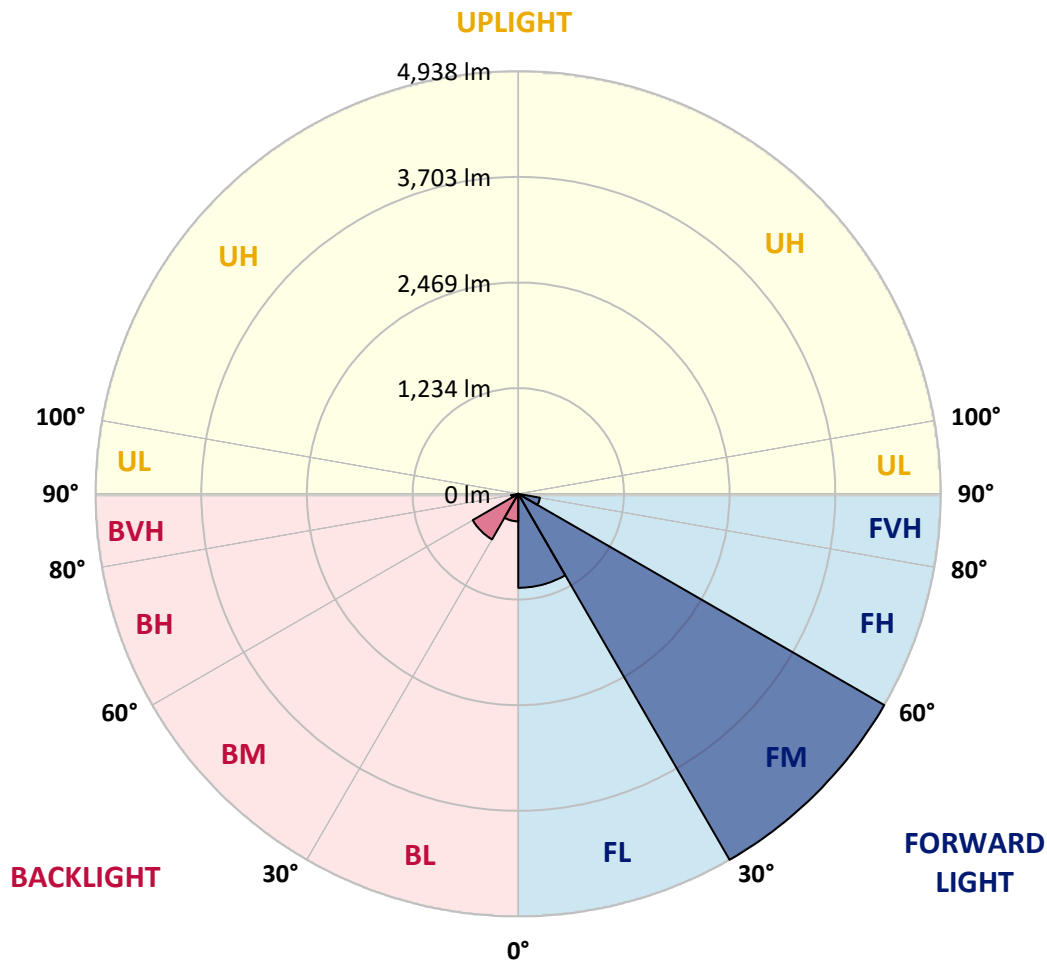


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.2	15.0			
FM (30°-60°)	4937.9	67.4			
FH (60°-80°)	257.6	3.5			G0/660
FVH (80°-90°)	4.9	0.1			G0/10
BL (0°-30°)	321.7	4.4	B1/500		
BM (30°-60°)	614.2	8.4	B1/1000		
BH (60°-80°)	80.8	1.1	B0/110		G0/110
BVH (80°-90°)	5.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3
2.5°	993.0	985.8	970.1	941.2	929.3	900.4	883.5	851.0	830.5	807.7	782.4
5°	1398.7	1361.3	1338.5	1306.0	1210.9	1151.9	1054.4	971.4	932.9	890.7	833.0
7.5°	1817.6	1793.5	1762.2	1692.4	1627.4	1504.6	1337.3	1154.3	1076.1	1003.9	889.5
10°	2164.2	2096.8	2093.2	2041.4	1970.4	1823.6	1622.5	1395.1	1255.5	1149.5	970.1
12.5°	2406.2	2344.8	2372.4	2366.5	2300.2	2165.4	1933.1	1632.2	1486.5	1321.6	1053.2
15°	2626.4	2601.1	2592.7	2585.5	2559.0	2459.1	2250.9	1921.1	1710.5	1511.8	1147.1
17.5°	2841.9	2776.9	2808.2	2814.2	2811.8	2721.6	2526.5	2195.5	1947.6	1712.8	1245.8
20°	3033.3	3039.3	2997.2	2988.7	2981.5	2977.9	2787.7	2467.5	2238.8	1923.4	1374.6
22.5°	3278.8	3236.7	3274.0	3249.9	3203.0	3174.1	3028.5	2708.2	2491.6	2177.4	1505.8
25°	3568.9	3602.6	3514.7	3505.1	3453.3	3353.4	3222.3	2977.9	2734.8	2413.4	1647.8
27.5°	3926.4	3867.4	3844.5	3791.6	3697.7	3655.6	3501.5	3255.9	3028.5	2661.3	1785.1
30°	4233.4	4217.7	4103.3	4040.7	3958.9	3957.7	3742.3	3632.7	3411.2	3050.1	1974.0
32.5°	4483.7	4415.1	4373.0	4329.6	4263.4	4281.4	4099.7	4041.9	3819.2	3411.2	2196.7
35°	4651.0	4601.7	4576.4	4510.2	4490.9	4571.5	4495.8	4471.6	4288.7	3919.1	2457.9
37.5°	4704.0	4719.6	4714.8	4631.8	4672.7	4890.5	4988.0	4925.5	4829.2	4454.8	2740.7
40°	4750.9	4761.7	4737.7	4835.2	4951.9	5199.9	5552.6	5449.1	5413.0	4997.7	3134.3
42.5°	4777.4	4768.9	4768.9	4937.5	5114.4	5612.8	6097.8	6029.3	6001.5	5575.4	3589.4
45°	4663.1	4581.2	4669.0	4897.7	5254.1	5816.2	6533.6	6628.6	6588.9	6262.7	4121.4
47.5°	4235.7	4286.3	4335.6	4641.4	5084.3	5753.6	6800.7	7124.6	7198.0	6840.5	4470.5
50°	3589.4	3578.5	3680.9	4066.0	4604.0	5484.0	6749.0	7267.8	7401.4	7013.8	4543.9
52.5°	2610.8	2690.2	2800.9	3183.8	3821.7	4785.9	6081.0	6898.3	7076.4	6800.7	4495.8
55°	1520.3	1432.3	1681.6	2005.3	2607.2	3609.9	5140.9	6114.7	6444.5	6413.2	4252.6
57.5°	609.1	589.8	675.3	910.0	1360.1	2237.7	3738.6	5024.1	5552.6	5873.9	3737.4
60°	267.2	261.2	306.9	370.8	556.1	1031.5	2045.0	3124.7	3676.0	4104.6	2572.2
62.5°	192.6	190.2	213.1	235.9	293.7	449.0	859.4	1259.1	1569.6	1895.8	1151.9
65°	155.3	161.3	177.0	189.0	216.7	249.2	303.3	350.2	429.7	445.4	254.0
67.5°	126.4	131.2	145.6	158.9	163.7	134.8	139.6	122.8	122.8	109.5	87.9
70°	92.7	93.9	110.7	126.4	101.1	54.2	95.1	95.1	85.4	81.8	74.6
72.5°	68.6	69.8	83.1	78.2	39.7	33.7	69.8	77.0	69.8	66.2	60.2
75°	50.6	51.8	43.3	18.1	16.8	21.7	41.0	52.9	50.6	49.3	45.7
77.5°	9.6	7.2	6.0	8.5	12.1	18.1	26.5	32.5	33.7	36.1	33.7
80°	1.2	1.2	3.6	7.2	13.2	19.3	27.7	31.3	32.5	33.7	31.3
82.5°	0.0	1.2	3.6	7.2	13.2	18.1	24.0	27.7	30.1	31.3	30.1
85°	0.0	1.2	2.4	6.0	10.8	13.2	12.1	8.5	7.2	8.5	6.0
87.5°	0.0	0.0	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4
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°	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3	758.3
2.5°	768.0	763.1	746.3	728.2	712.6	719.8	712.6	706.6	708.9	706.6	704.2
5°	810.1	788.4	752.3	736.6	723.4	722.2	718.6	717.4	718.6	718.6	707.8
7.5°	849.8	814.9	776.3	759.5	743.8	745.1	736.6	736.6	735.5	729.4	727.0
10°	910.0	863.0	813.7	783.6	764.4	760.8	752.3	743.8	743.8	743.8	731.9
12.5°	976.2	917.2	849.8	814.9	792.0	774.0	760.8	758.3	745.1	742.7	736.6
15°	1034.0	959.3	873.9	825.8	796.9	772.7	752.3	739.1	733.0	729.4	724.6
17.5°	1090.6	995.4	887.1	825.8	794.4	766.7	745.1	733.0	718.6	721.0	711.4
20°	1166.4	1034.0	890.7	810.1	771.6	745.1	716.2	710.2	701.7	694.5	696.9
22.5°	1239.8	1061.7	879.9	790.8	735.5	704.2	689.7	682.5	678.9	672.8	664.5
25°	1306.0	1091.7	863.0	755.9	696.9	674.1	660.9	659.6	651.2	651.2	635.6
27.5°	1373.4	1102.5	834.1	715.0	663.2	650.0	643.9	641.6	637.9	629.5	618.7
30°	1450.4	1106.1	792.0	672.8	633.1	618.7	627.1	633.1	617.5	601.8	606.7
32.5°	1514.2	1097.8	741.5	633.1	611.4	604.2	621.1	627.1	609.1	592.2	583.8
35°	1591.3	1077.3	692.1	601.8	589.8	604.2	618.7	618.7	582.6	562.1	557.3
37.5°	1708.0	1054.4	646.4	575.3	567.0	597.0	616.3	603.1	546.5	521.2	515.1
40°	1833.2	1040.0	601.8	548.9	554.9	585.0	595.8	554.9	497.1	481.5	476.7
42.5°	2015.0	1011.1	562.1	526.0	544.0	568.1	568.1	494.7	473.0	464.6	463.4
45°	2241.3	990.7	527.2	506.8	528.4	534.4	515.1	463.4	447.8	445.4	446.5
47.5°	2352.0	950.9	491.1	483.9	499.6	500.7	450.1	438.2	424.9	421.3	418.9
50°	2335.1	879.9	444.2	453.7	475.4	463.4	410.4	412.9	400.8	399.6	393.6
52.5°	2217.1	768.0	397.2	420.1	444.2	409.3	378.0	375.5	375.5	359.9	353.9
55°	1965.6	618.7	340.6	369.5	398.4	344.3	335.8	333.4	327.4	313.0	309.4
57.5°	1556.4	453.7	256.4	287.7	338.3	292.5	291.3	280.5	264.8	254.0	254.0
60°	925.7	261.2	161.3	175.7	223.9	237.1	263.6	258.8	232.3	215.5	210.6
62.5°	422.5	134.8	102.3	104.7	120.3	154.1	207.0	239.5	202.2	173.4	170.9
65°	142.0	99.9	84.3	80.6	83.1	92.7	123.9	169.8	161.3	133.6	128.8
67.5°	86.7	89.1	79.5	73.4	73.4	72.2	71.0	77.0	95.1	92.7	93.9
70°	74.6	81.8	73.4	66.2	63.8	60.2	50.6	42.1	36.1	42.1	44.6
72.5°	60.2	65.0	62.6	56.6	50.6	45.7	36.1	27.7	20.4	18.1	18.1
75°	44.6	48.2	50.6	43.3	38.5	32.5	26.5	18.1	10.8	7.2	7.2
77.5°	32.5	36.1	37.3	33.7	28.9	22.9	16.8	12.1	6.0	2.4	2.4
80°	27.7	32.5	36.1	33.7	30.1	21.7	15.7	8.5	4.8	1.2	1.2
82.5°	26.5	32.5	36.1	32.5	28.9	20.4	15.7	9.6	3.6	1.2	1.2
85°	6.0	8.5	10.8	13.2	15.7	15.7	12.1	7.2	3.6	1.2	1.2
87.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.2	1.2	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)