

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: P646767

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
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-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8257.5 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

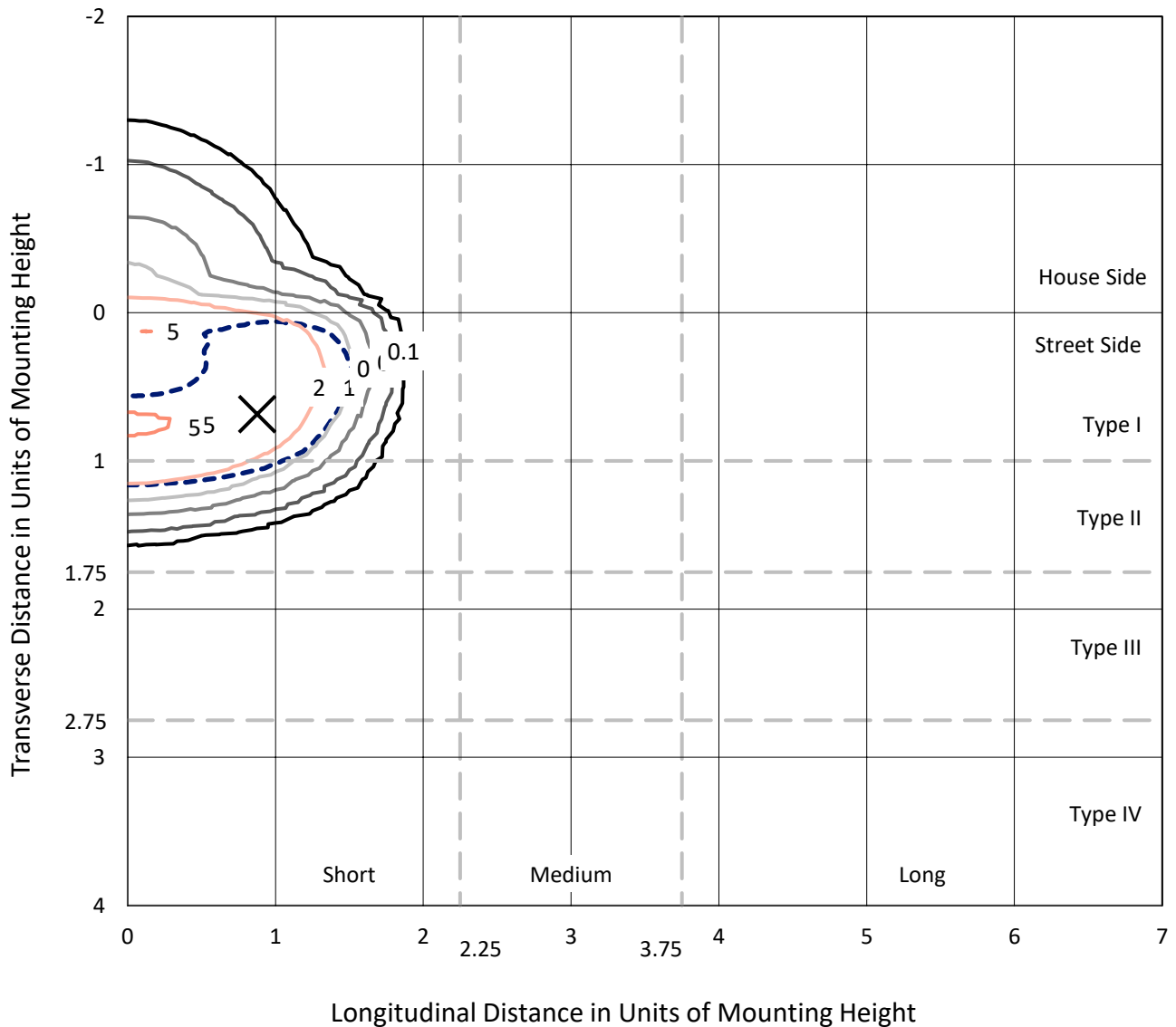
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

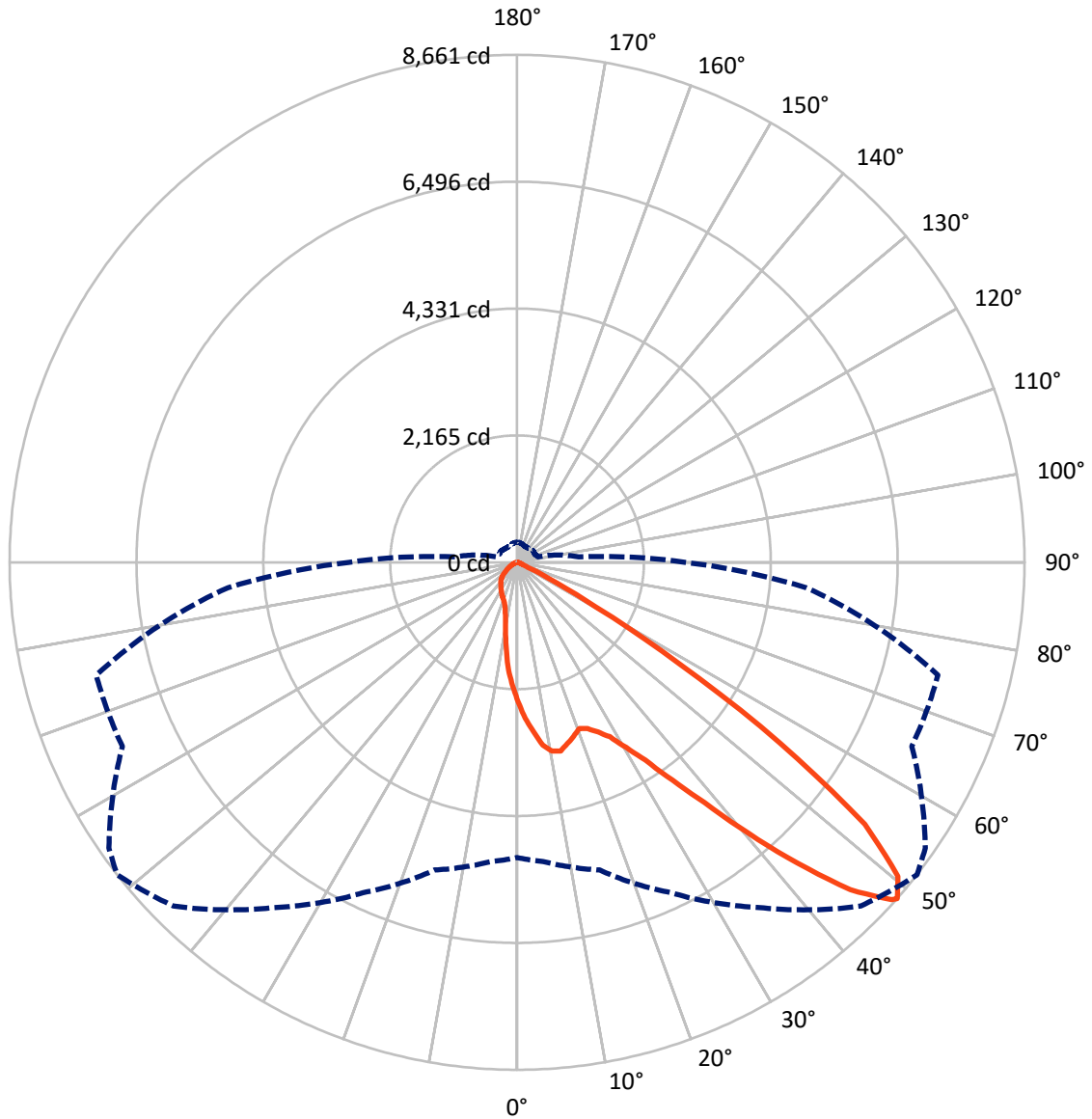
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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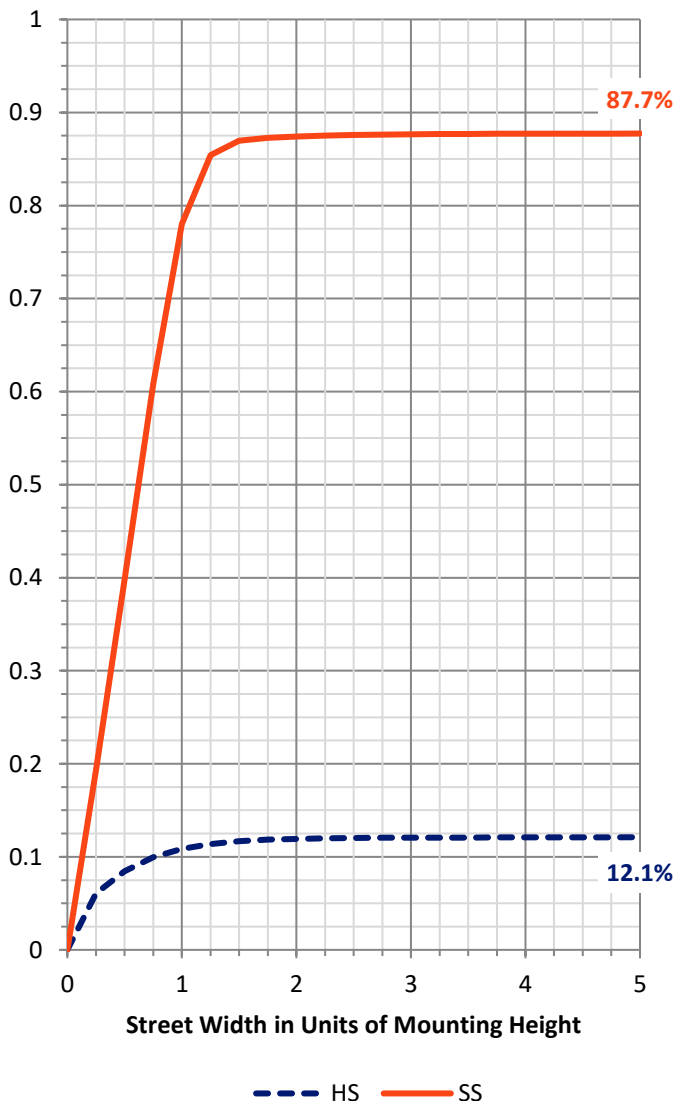
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.4	0.0	1005.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7252.1	0.0	7252.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	8257.5	0.0	8257.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.3	2.6
10°-20°	570.4	6.9
20°-30°	973.9	11.8
30°-40°	1793.4	21.7
40°-50°	2785.2	33.7
50°-60°	1676.2	20.3
60°-70°	193.9	2.3
70°-80°	37.5	0.5
80°-90°	8.7	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°	8257.5	100.0
0°-180°	8257.5	100.0

Coefficient of Utilization

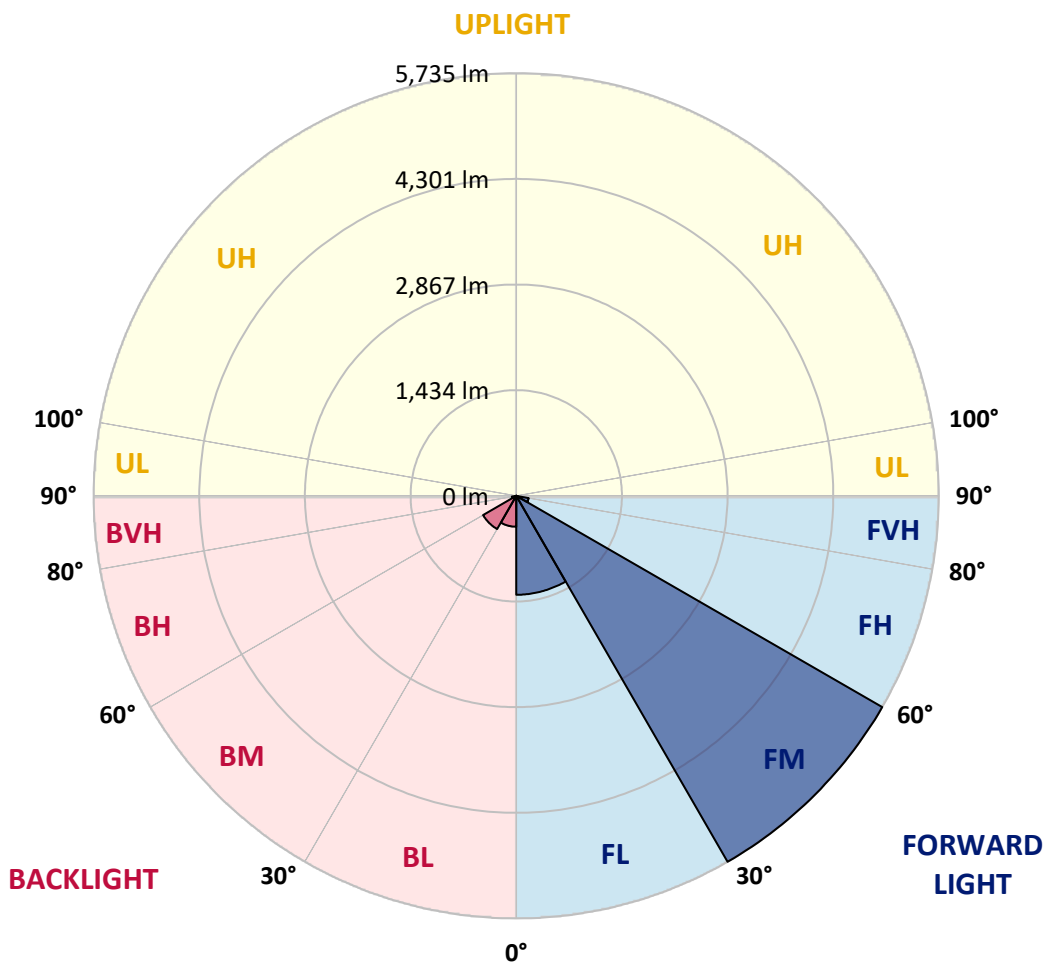


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.6	16.3			
FM (30°-60°)	5734.7	69.4			
FH (60°-80°)	170.7	2.1			G0/660
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	420.0	5.1	B1/500		
BM (30°-60°)	520.2	6.3	B1/1000		
BH (60°-80°)	60.7	0.7	B0/110		G0/110
BVH (80°-90°)	4.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6
2.5°	2890.2	2824.0	2830.0	2786.7	2761.4	2720.5	2665.1	2654.3	2594.1	2512.3	2429.2
5°	3150.2	3134.6	3155.0	3092.5	3094.9	3027.5	2897.4	2899.8	2761.4	2627.8	2499.0
7.5°	3167.1	3131.0	3151.4	3206.8	3239.3	3227.3	3153.8	3090.0	2958.8	2762.6	2574.8
10°	2836.0	2904.6	2926.3	3017.8	3147.8	3285.1	3276.6	3280.2	3170.7	2914.2	2639.8
12.5°	2637.5	2591.7	2665.1	2720.5	2916.7	3182.7	3304.3	3330.8	3339.2	3061.1	2704.8
15°	2547.2	2547.2	2559.2	2574.8	2716.9	2962.4	3210.4	3287.4	3469.2	3253.8	2807.1
17.5°	2603.7	2601.3	2618.2	2585.6	2638.6	2827.6	3123.7	3211.6	3614.9	3442.7	2887.8
20°	2775.9	2784.3	2773.5	2679.6	2683.2	2825.2	3027.5	3165.9	3713.6	3606.4	2995.0
22.5°	3015.4	3020.2	2958.8	2856.5	2826.4	2896.2	3082.8	3188.8	3793.0	3802.6	3027.5
25°	3292.3	3273.0	3261.0	3116.5	3025.0	3085.3	3208.0	3269.4	3842.4	3971.1	3120.1
27.5°	3676.3	3637.7	3564.3	3435.5	3368.1	3282.6	3370.5	3471.6	3983.2	4207.1	3221.3
30°	4243.2	4209.5	4066.3	3900.1	3723.2	3638.9	3666.6	3722.0	4237.2	4480.4	3354.8
32.5°	5096.7	5025.7	4818.7	4502.0	4261.3	4028.9	4021.7	4080.7	4464.7	4858.4	3513.8
35°	6036.9	6015.2	5710.6	5384.4	4918.6	4559.8	4565.8	4597.1	4900.5	5354.3	3722.0
37.5°	6661.5	6780.7	6586.9	6236.7	5845.4	5332.6	5202.6	5213.4	5498.8	5941.7	4097.6
40°	7144.2	7043.2	7066.0	6984.2	6717.0	6367.8	6080.2	6023.5	6190.9	6591.8	4470.8
42.5°	6933.6	6938.4	7079.3	7273.1	7339.3	7314.0	7020.3	6913.2	6783.1	7123.8	4825.9
45°	6338.9	6463.0	6645.9	7158.7	7609.0	8031.5	7973.7	7795.5	7192.4	7545.1	5030.5
47.5°	5390.4	5385.6	5685.4	6352.2	7352.5	8342.0	8604.4	8479.3	7482.5	7498.2	4988.3
48°	5040.1	5126.8	5436.1	6221.0	7190.0	8296.3	8661.0	8503.3	7433.2	7435.6	4952.2
50°	3725.6	3709.9	4095.2	5058.2	6422.0	7795.5	8422.7	8545.4	7432.0	7119.0	4699.5
52.5°	1968.1	2035.6	2316.0	3180.3	4540.5	6379.9	7429.6	7620.9	7169.5	6601.4	4335.9
55°	836.6	756.0	971.4	1436.1	2554.4	4262.5	5450.6	5876.7	6062.1	5841.8	3793.0
57.5°	298.6	326.2	375.6	540.5	1073.7	2332.9	3250.2	3581.1	4199.9	4286.5	2584.4
60°	191.4	195.0	210.6	248.0	403.2	899.2	1542.0	1805.6	2086.1	2153.5	1206.1
62.5°	148.1	149.2	156.5	162.5	191.4	349.1	579.0	686.1	712.6	612.7	316.6
65°	123.9	125.2	127.6	127.6	136.0	163.7	202.2	222.7	216.7	214.3	179.4
67.5°	95.1	97.5	102.3	102.3	107.1	99.9	112.0	119.2	134.8	163.7	152.8
70°	74.6	75.9	79.5	81.8	81.8	72.2	80.6	87.9	98.7	121.6	120.3
72.5°	57.8	60.2	62.6	62.6	59.0	49.3	57.8	63.8	71.0	84.3	81.8
75°	44.6	44.6	45.7	37.3	28.9	25.3	34.9	42.1	52.9	55.4	45.7
77.5°	12.1	13.2	12.1	10.8	12.1	18.1	22.9	26.5	33.7	33.7	30.1
80°	0.0	1.2	3.6	7.2	12.1	16.8	20.4	22.9	26.5	28.9	27.7
82.5°	0.0	1.2	3.6	7.2	10.8	13.2	18.1	19.3	21.7	25.3	25.3
85°	0.0	1.2	2.4	4.8	7.2	8.5	8.5	7.2	7.2	6.0	4.8
87.5°	0.0	0.0	1.2	2.4	2.4	3.6	3.6	3.6	3.6	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°	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6	2384.6
2.5°	2396.7	2359.3	2302.8	2213.7	2128.3	2072.8	2019.9	1960.9	1928.5	1926.0	1907.9
5°	2425.6	2341.3	2206.5	2053.6	1889.9	1749.1	1607.0	1514.3	1431.2	1385.5	1377.1
7.5°	2441.2	2331.7	2113.8	1857.4	1578.1	1348.2	1189.3	1072.6	1026.8	993.1	991.9
10°	2473.7	2314.8	1975.4	1597.4	1251.9	1019.5	910.0	857.1	831.8	822.2	807.7
12.5°	2497.8	2283.5	1833.3	1330.2	989.5	845.0	796.9	784.9	786.1	790.8	784.9
15°	2531.5	2255.8	1642.0	1091.8	830.6	760.8	760.8	763.2	780.0	782.5	781.2
17.5°	2529.1	2201.6	1444.5	899.2	734.3	724.7	728.3	751.1	761.9	765.6	757.2
20°	2558.0	2151.1	1241.1	768.0	680.1	694.6	718.6	724.7	737.9	740.3	730.7
22.5°	2549.5	2024.7	1052.1	664.5	639.2	666.9	690.9	698.2	694.6	687.3	686.1
25°	2533.9	1916.4	878.8	595.9	609.1	639.2	662.0	648.8	641.6	642.8	644.0
27.5°	2506.2	1779.1	735.5	547.7	568.1	612.7	611.5	606.7	614.0	607.9	614.0
30°	2501.4	1642.0	617.6	504.4	538.1	570.6	573.0	581.4	589.8	579.0	589.8
32.5°	2508.7	1491.5	533.3	477.9	520.0	521.2	547.7	556.2	550.1	526.0	528.4
35°	2564.0	1375.9	471.8	463.5	491.1	492.4	517.6	506.8	480.3	465.9	474.3
37.5°	2680.8	1279.6	442.9	450.2	452.6	468.2	469.5	447.8	450.2	449.0	453.8
40°	2830.0	1206.1	422.5	438.2	435.7	446.6	403.2	415.3	426.1	429.7	432.1
42.5°	2932.3	1153.2	409.3	418.9	414.1	394.9	370.8	382.8	391.2	404.5	406.8
45°	2978.1	1111.1	393.6	385.2	385.2	350.3	340.7	343.0	362.3	376.8	374.4
47.5°	2903.4	1070.1	366.0	340.7	349.1	320.2	309.4	309.4	329.8	347.9	344.3
48°	2874.5	1053.3	367.1	331.1	337.1	315.4	304.6	302.2	325.0	341.9	341.9
50°	2731.3	990.7	335.8	304.6	292.5	290.1	282.9	285.3	299.7	315.4	315.4
52.5°	2452.0	855.9	284.1	261.2	239.5	254.0	257.6	252.8	260.0	274.4	273.3
55°	2046.4	657.3	227.5	216.7	199.8	215.5	222.7	216.7	209.5	220.3	220.3
57.5°	1310.9	353.9	181.7	184.2	167.3	183.0	189.0	174.5	161.3	169.8	168.5
60°	591.0	211.9	149.2	145.6	134.8	152.8	162.5	145.6	127.6	133.6	139.6
62.5°	221.5	150.5	113.1	110.7	108.4	125.2	130.0	116.7	98.7	102.3	103.5
65°	162.5	132.4	90.3	81.8	86.7	98.7	96.3	83.1	71.0	71.0	73.4
67.5°	138.4	115.6	73.4	63.8	63.8	65.0	60.2	52.9	49.3	51.8	54.2
70°	108.4	91.5	57.8	49.3	44.6	39.7	34.9	33.7	30.1	33.7	32.5
72.5°	69.8	61.4	44.6	37.3	33.7	27.7	22.9	21.7	18.1	16.8	16.8
75°	37.3	37.3	34.9	30.1	26.5	21.7	18.1	14.4	9.6	7.2	7.2
77.5°	26.5	28.9	31.3	28.9	24.0	18.1	14.4	9.6	4.8	2.4	2.4
80°	25.3	28.9	31.3	27.7	24.0	18.1	13.2	7.2	3.6	1.2	1.2
82.5°	22.9	26.5	28.9	25.3	21.7	15.7	12.1	7.2	3.6	1.2	1.2
85°	4.8	6.0	7.2	7.2	8.5	10.8	8.5	6.0	2.4	1.2	1.2
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	2.4	2.4	1.2	1.2	1.2
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)