

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: P648428

Luminaire Tested: **GALN-SA5B-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13047.9 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

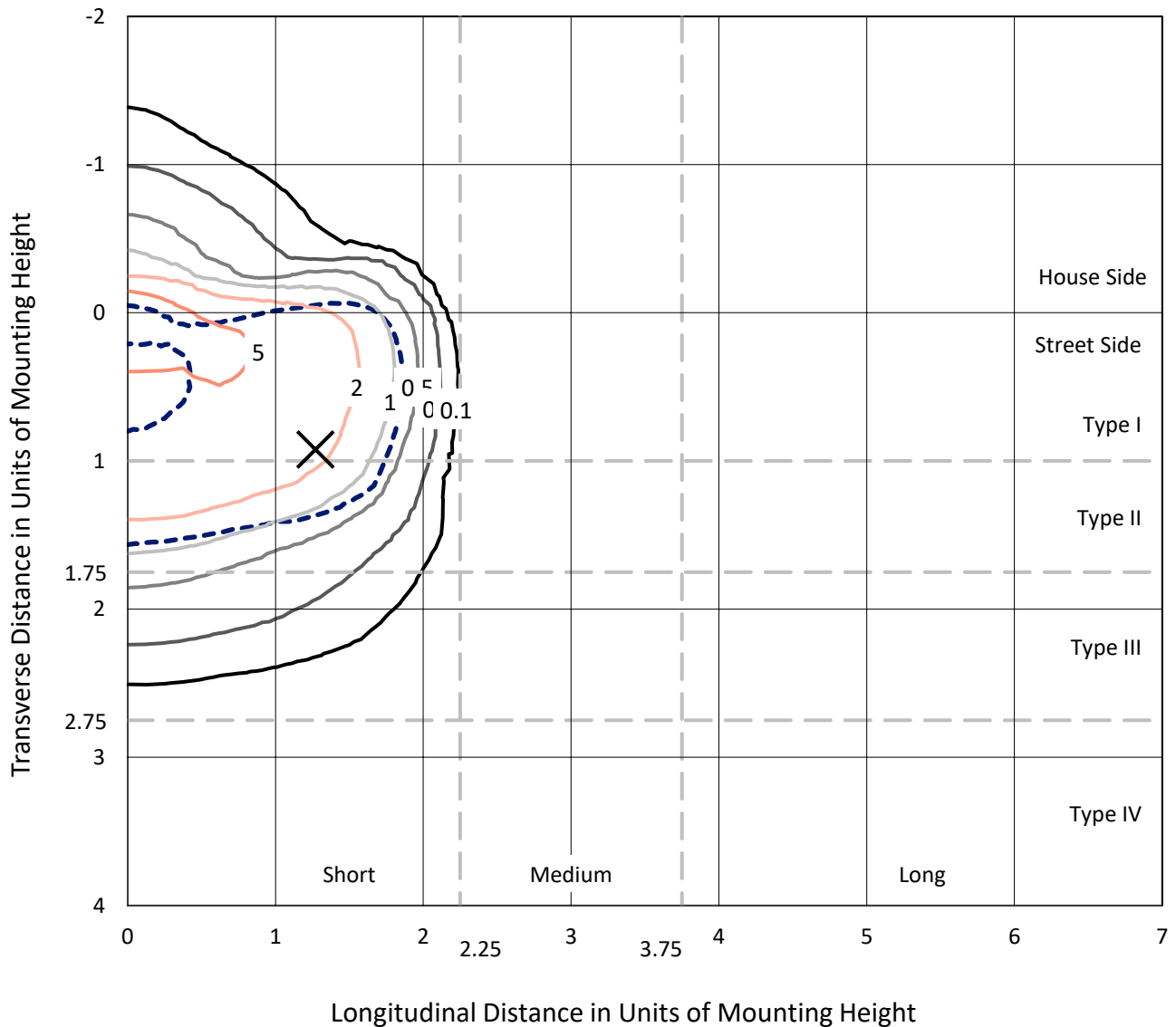
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

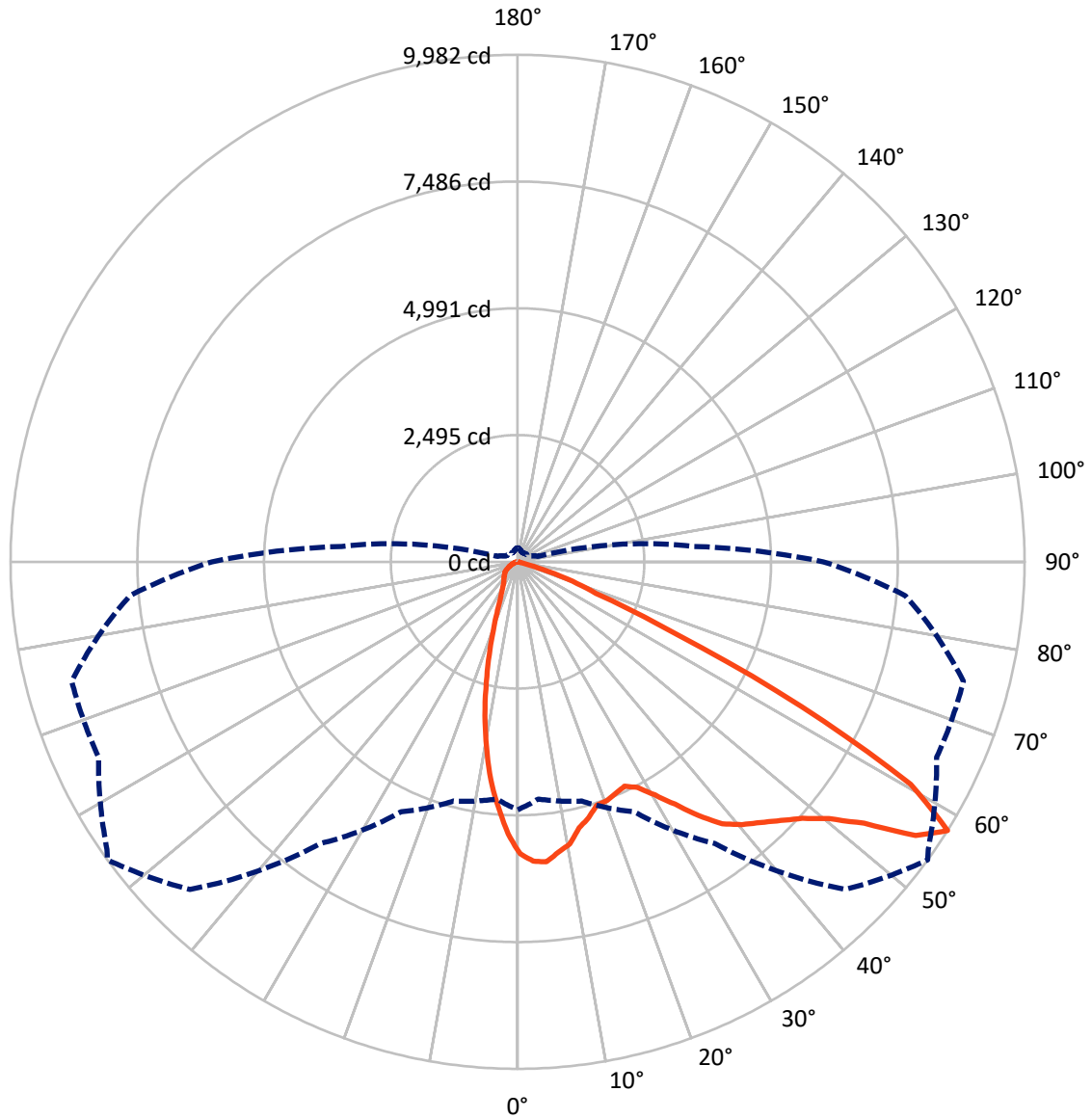
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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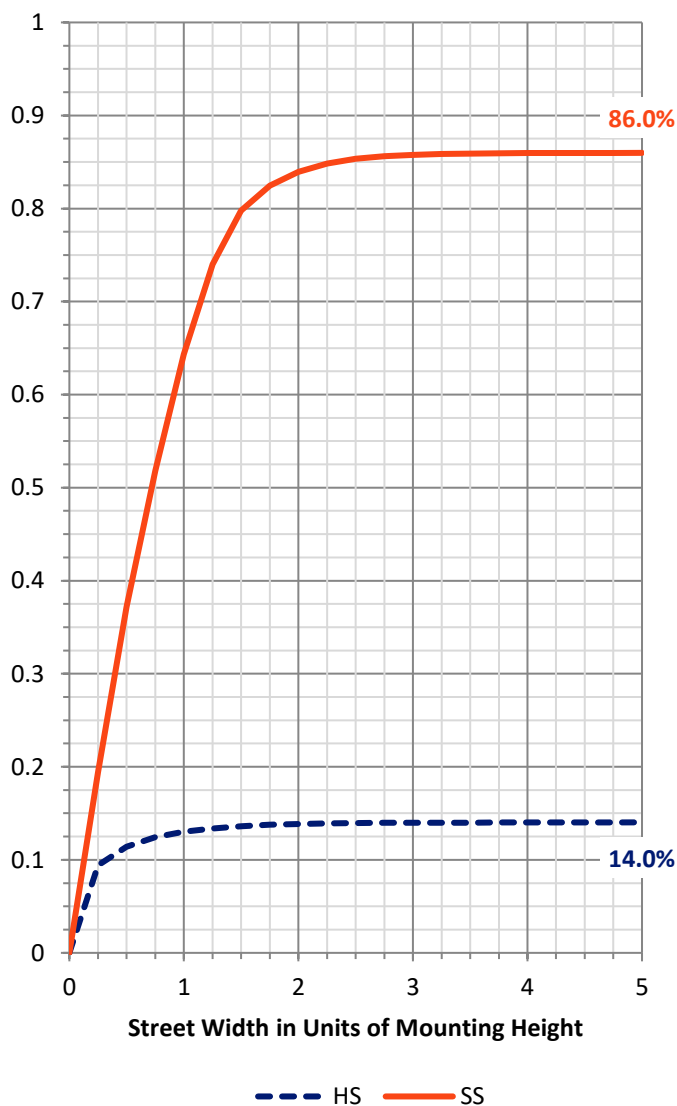
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1843.9	0.0	1843.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	11204.0	0.0	11204.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	13047.9	0.0	13047.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.0	3.7
10°-20°	1026.9	7.9
20°-30°	1360.8	10.4
30°-40°	1977.7	15.2
40°-50°	2932.6	22.5
50°-60°	3667.1	28.1
60°-70°	1446.5	11.1
70°-80°	144.0	1.1
80°-90°	11.2	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°	13047.9	100.0
0°-180°	13047.9	100.0

Coefficient of Utilization



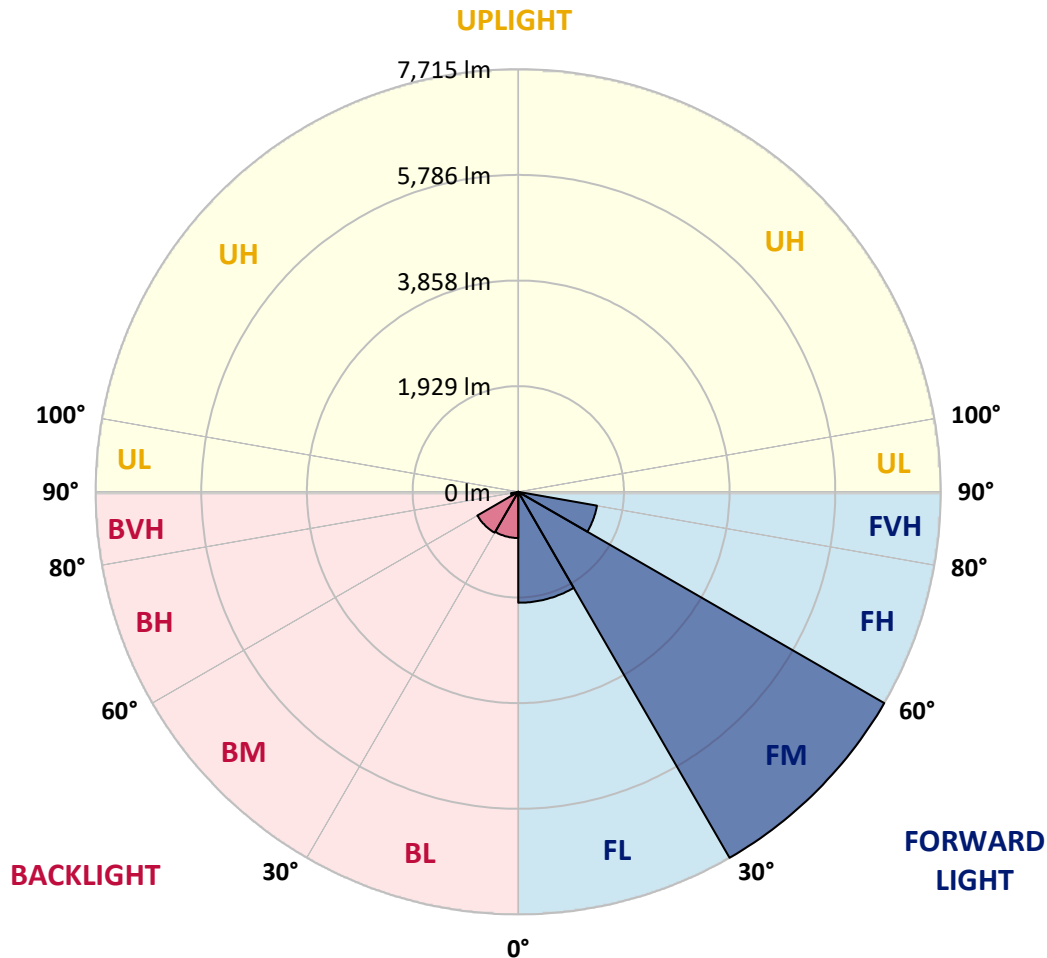
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2025.4	15.5			
FM (30°-60°)	7715.2	59.1			
FH (60°-80°)	1458.3	11.2			G1/1800
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	843.3	6.5	B2/1000		
BM (30°-60°)	862.2	6.6	B1/1000		
BH (60°-80°)	132.2	1.0	B1/500		G1/500
BVH (80°-90°)	6.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8
2.5°	6082.6	6019.5	6024.4	6002.6	5973.4	5995.3	5900.6	5922.5	5920.0	5791.5	5706.5
5°	5929.7	5997.7	5927.3	5985.6	5929.7	5990.4	5932.2	5888.5	5818.2	5723.5	5565.8
7.5°	5670.2	5604.6	5624.1	5696.8	5708.9	5844.9	5772.0	5827.9	5798.7	5611.9	5396.0
10°	5148.5	5134.0	5231.0	5328.0	5446.9	5592.5	5648.3	5616.8	5594.9	5524.5	5235.8
12.5°	4748.2	4789.4	4786.9	4947.2	5148.5	5231.0	5376.5	5371.7	5493.1	5362.0	5085.4
15°	4367.3	4389.1	4491.0	4590.5	4813.6	5049.0	5228.6	5252.8	5398.4	5306.2	4968.9
17.5°	4134.3	4102.8	4182.9	4301.7	4529.8	4837.9	5036.9	5095.1	5294.1	5274.7	4835.5
20°	3903.8	3903.8	3969.3	4110.0	4318.7	4665.7	5019.9	5002.9	5294.1	5238.3	4692.4
22.5°	3826.2	3865.0	3882.0	3988.8	4236.3	4534.7	4947.2	4978.6	5335.3	5221.3	4629.3
25°	3932.9	3882.0	3886.8	3971.8	4204.7	4471.6	4893.8	4964.1	5410.5	5306.2	4578.4
27.5°	3949.9	4000.9	4015.5	4073.6	4229.0	4491.0	5027.2	5170.3	5597.4	5505.2	4592.9
30°	4097.9	4148.9	4146.5	4245.9	4352.7	4648.7	5325.7	5354.7	5983.1	5755.0	4682.7
32.5°	4277.5	4330.9	4347.8	4464.3	4549.2	4937.4	5689.5	5764.8	6354.4	6148.1	4918.0
35°	4500.7	4481.3	4558.9	4675.4	4857.3	5359.6	6133.6	6259.7	6754.7	6657.6	5160.6
37.5°	4779.7	4755.5	4830.6	5019.9	5267.4	5859.4	6543.6	6626.1	7045.8	7130.8	5609.5
40°	4976.2	4985.9	5214.0	5468.8	5730.8	6334.9	6803.2	6883.3	7249.6	7572.3	5949.2
42.5°	5303.8	5364.4	5638.6	5949.2	6223.4	6691.6	7014.3	7091.9	7344.2	7926.5	6407.8
45°	5779.3	5752.6	6055.9	6402.9	6706.2	7062.8	7264.2	7237.5	7400.1	8278.3	6696.5
47.5°	6390.8	6395.6	6596.9	6893.0	7208.4	7385.5	7543.2	7448.6	7516.5	8649.6	7082.2
50°	6808.0	6844.4	7007.0	7310.3	7468.0	7739.7	7941.1	7882.9	7861.0	8872.8	7324.8
52.5°	6914.8	7024.0	7111.4	7489.9	7858.6	8288.1	8545.3	8669.0	8280.8	8948.0	7633.0
55°	6109.3	6206.4	6514.5	7033.7	8006.6	9156.6	9510.9	9513.3	8829.1	9282.9	7848.9
57.5°	4884.0	4687.5	4876.8	5427.5	6769.3	9120.2	9981.6	9867.5	9103.3	9086.3	7662.1
60°	3377.3	3328.8	3340.9	3559.3	4685.1	7254.5	8894.6	9042.6	8382.7	7875.6	6065.6
62.5°	2676.1	2634.9	2581.6	2557.3	2909.1	4520.1	6274.3	6482.9	5861.9	5107.3	3595.7
65°	2096.2	2072.1	2079.3	2176.3	2173.9	2564.6	3430.7	3345.8	2678.6	1979.8	1130.7
67.5°	1414.5	1450.9	1480.0	1773.6	1924.0	1785.7	1657.1	1608.6	871.0	366.4	249.9
70°	795.8	800.7	832.2	1108.8	1460.6	1385.4	1142.8	1142.8	434.3	133.4	143.1
72.5°	434.3	419.8	390.6	477.9	650.2	659.9	509.5	444.0	128.6	87.4	80.1
75°	211.1	208.7	179.5	148.0	140.7	116.4	89.8	82.5	58.3	55.8	48.5
77.5°	43.7	41.3	21.8	21.8	24.3	26.7	34.0	34.0	41.3	41.3	34.0
80°	0.0	0.0	2.4	9.7	17.0	24.3	29.1	29.1	34.0	34.0	26.7
82.5°	0.0	0.0	2.4	7.3	14.6	21.8	26.7	29.1	34.0	36.4	29.1
85°	0.0	0.0	0.0	4.9	12.1	17.0	14.6	14.6	12.1	9.7	4.9
87.5°	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8	5747.8
2.5°	5662.9	5658.0	5546.4	5483.3	5369.3	5269.8	5189.7	5131.5	5131.5	5095.1	5061.2
5°	5502.8	5461.5	5223.7	5070.9	4854.9	4694.8	4585.6	4500.7	4367.3	4403.7	4260.5
7.5°	5303.8	5199.4	4884.0	4651.1	4352.7	4124.6	3891.7	3685.5	3486.5	3396.7	3445.3
10°	5090.3	4908.3	4483.7	4114.9	3743.7	3326.4	3054.6	2724.7	2520.9	2508.7	2455.3
12.5°	4864.6	4658.4	4141.6	3632.1	3144.4	2642.2	2227.3	1919.1	1780.9	1628.0	1657.1
15°	4694.8	4389.1	3760.7	3146.9	2499.0	1992.0	1574.6	1336.9	1205.8	1169.5	1157.4
17.5°	4510.4	4182.9	3372.5	2630.0	1960.4	1433.9	1133.1	1019.0	968.1	968.1	960.8
20°	4318.7	3949.9	2986.7	2149.6	1470.3	1070.0	907.4	871.0	868.6	866.2	866.2
22.5°	4192.6	3683.1	2637.3	1708.1	1108.8	856.4	788.6	774.0	783.7	812.8	812.8
25°	4059.2	3425.9	2251.6	1317.5	858.9	735.2	696.3	706.0	730.3	757.0	747.3
27.5°	3923.2	3258.5	1887.7	1033.6	703.6	642.9	628.4	650.2	676.9	701.2	693.9
30°	3891.7	3078.9	1543.1	783.7	604.2	560.5	570.2	589.6	616.3	626.0	635.6
32.5°	3940.2	2938.2	1264.1	642.9	526.5	514.4	514.4	524.1	541.1	562.9	555.6
35°	4078.5	2858.1	999.6	558.0	482.8	470.7	468.2	477.9	487.7	494.9	487.7
37.5°	4289.6	2795.1	817.6	494.9	453.7	434.3	429.5	427.0	436.8	439.2	444.0
40°	4558.9	2829.0	693.9	456.1	424.6	402.8	388.2	388.2	388.2	395.5	397.9
42.5°	4850.1	2875.1	599.3	434.3	397.9	371.2	356.7	351.8	356.7	366.4	363.9
45°	5155.7	2964.9	538.6	400.3	373.6	339.7	320.2	315.4	327.5	346.9	344.5
47.5°	5442.1	3093.5	492.5	378.5	349.4	317.8	293.5	288.7	310.5	337.2	339.7
50°	5728.3	3316.7	475.5	361.5	332.4	296.0	274.1	269.4	293.5	327.5	334.8
52.5°	6058.3	3556.9	463.4	339.7	313.0	279.0	254.8	249.9	276.6	320.2	322.7
55°	6274.3	3760.7	453.7	300.8	276.6	252.4	232.9	230.5	259.6	298.4	308.1
57.5°	6022.0	3476.8	419.8	262.1	235.4	223.2	206.2	206.2	230.5	266.9	274.1
60°	4566.2	2287.9	298.4	211.1	199.0	191.7	184.4	184.4	203.8	230.5	232.9
62.5°	2673.7	1232.5	191.7	169.8	169.8	162.6	150.4	150.4	169.8	184.4	186.8
65°	793.4	395.5	155.3	145.6	143.1	131.0	118.9	116.4	131.0	138.3	135.9
67.5°	228.1	182.0	128.6	121.3	118.9	99.4	92.2	89.8	92.2	87.4	85.0
70°	135.9	123.7	99.4	101.9	89.8	72.8	65.5	63.1	58.3	51.0	46.1
72.5°	75.2	75.2	72.8	77.7	63.1	48.5	41.3	34.0	26.7	21.8	19.4
75°	46.1	48.5	51.0	53.4	41.3	31.6	26.7	17.0	9.7	4.9	4.9
77.5°	31.6	34.0	36.4	38.8	34.0	29.1	21.8	12.1	2.4	0.0	0.0
80°	24.3	26.7	31.6	34.0	36.4	38.8	29.1	12.1	2.4	0.0	0.0
82.5°	26.7	29.1	36.4	34.0	34.0	34.0	26.7	12.1	2.4	0.0	0.0
85°	4.9	7.3	12.1	12.1	17.0	21.8	17.0	4.9	0.0	0.0	0.0
87.5°	0.0	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)