

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: P647438

Luminaire Tested: **GALN-SA5D-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647438
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-SA5D-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA 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: 17738.9 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

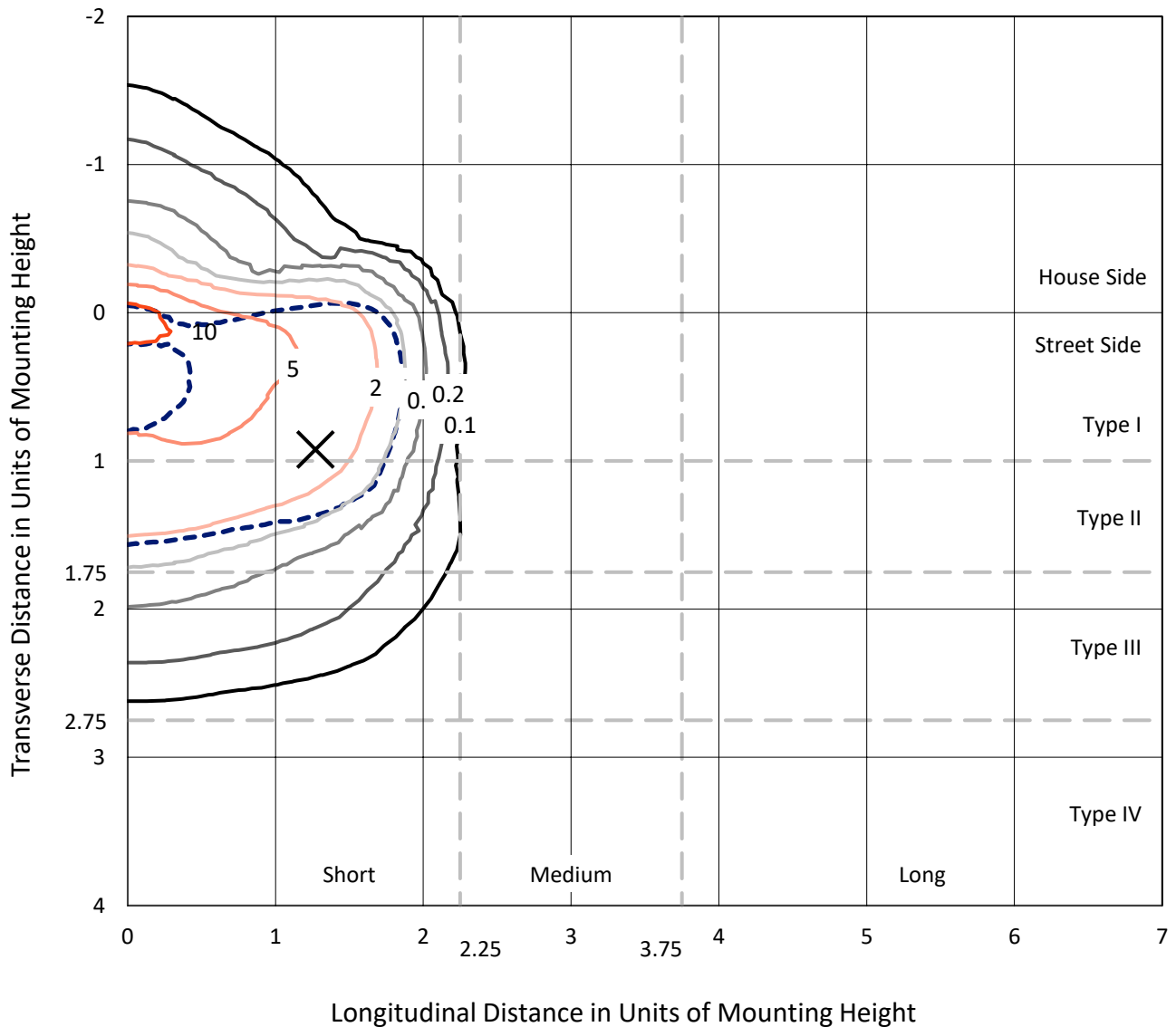
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

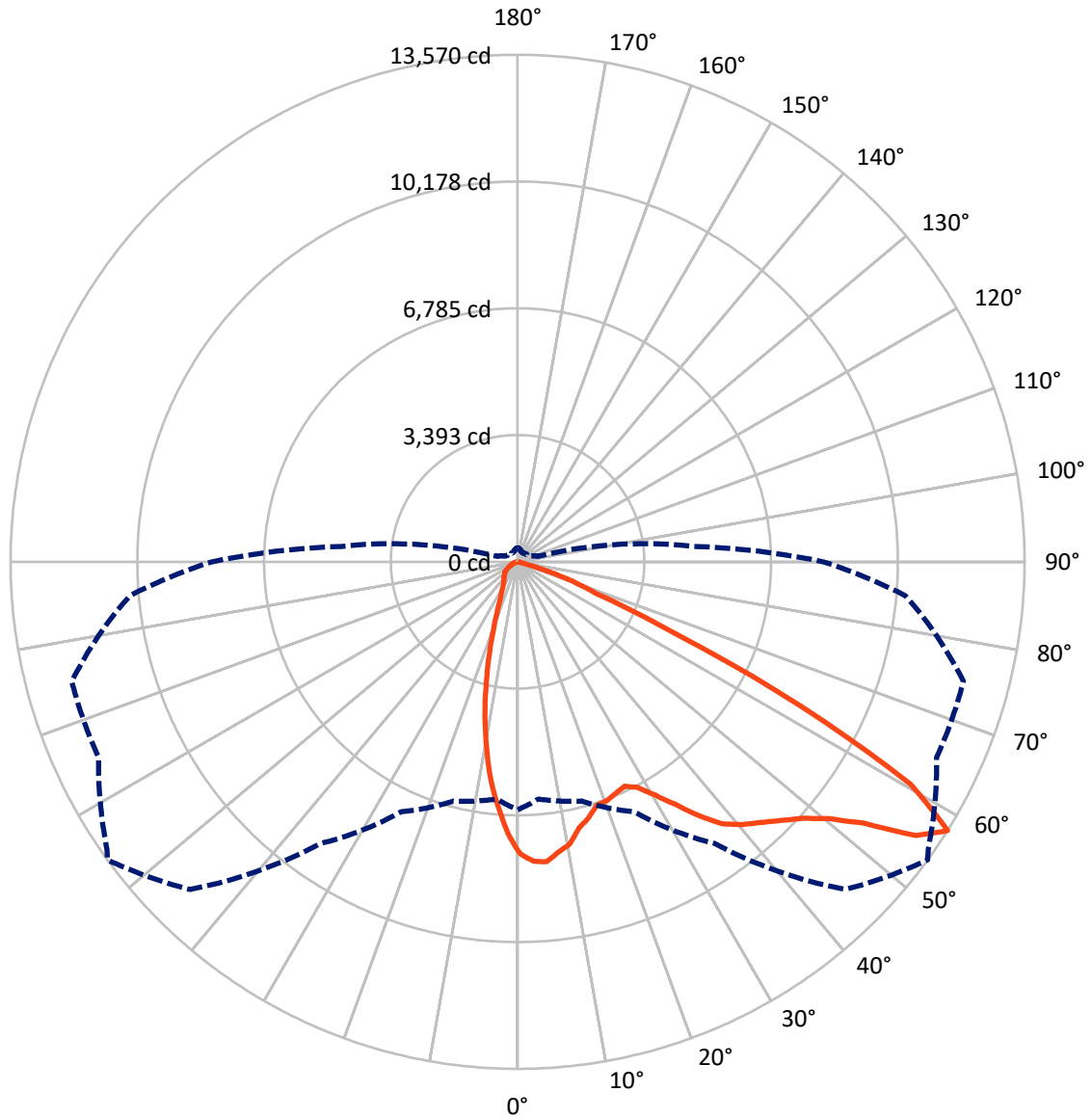
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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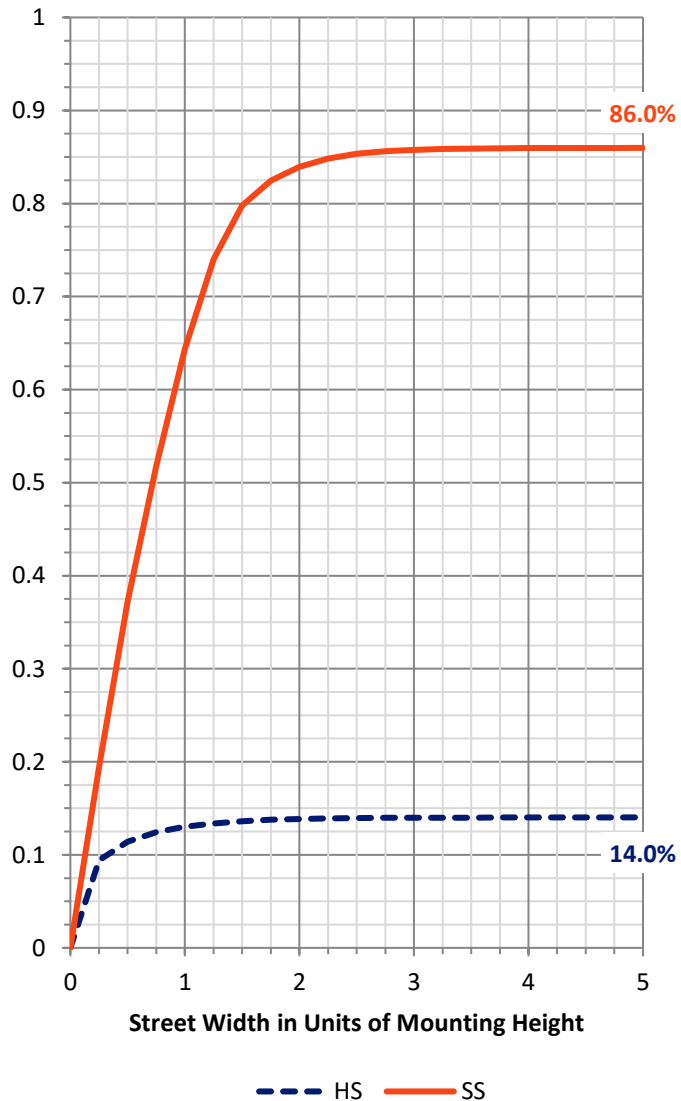
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2506.8	0.0	2506.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15232.1	0.0	15232.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	17738.9	0.0	17738.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.9	3.7
10°-20°	1396.1	7.9
20°-30°	1850.1	10.4
30°-40°	2688.7	15.2
40°-50°	3987.0	22.5
50°-60°	4985.5	28.1
60°-70°	1966.6	11.1
70°-80°	195.8	1.1
80°-90°	15.2	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°	17738.9	100.0
0°-180°	17738.9	100.0

Coefficient of Utilization

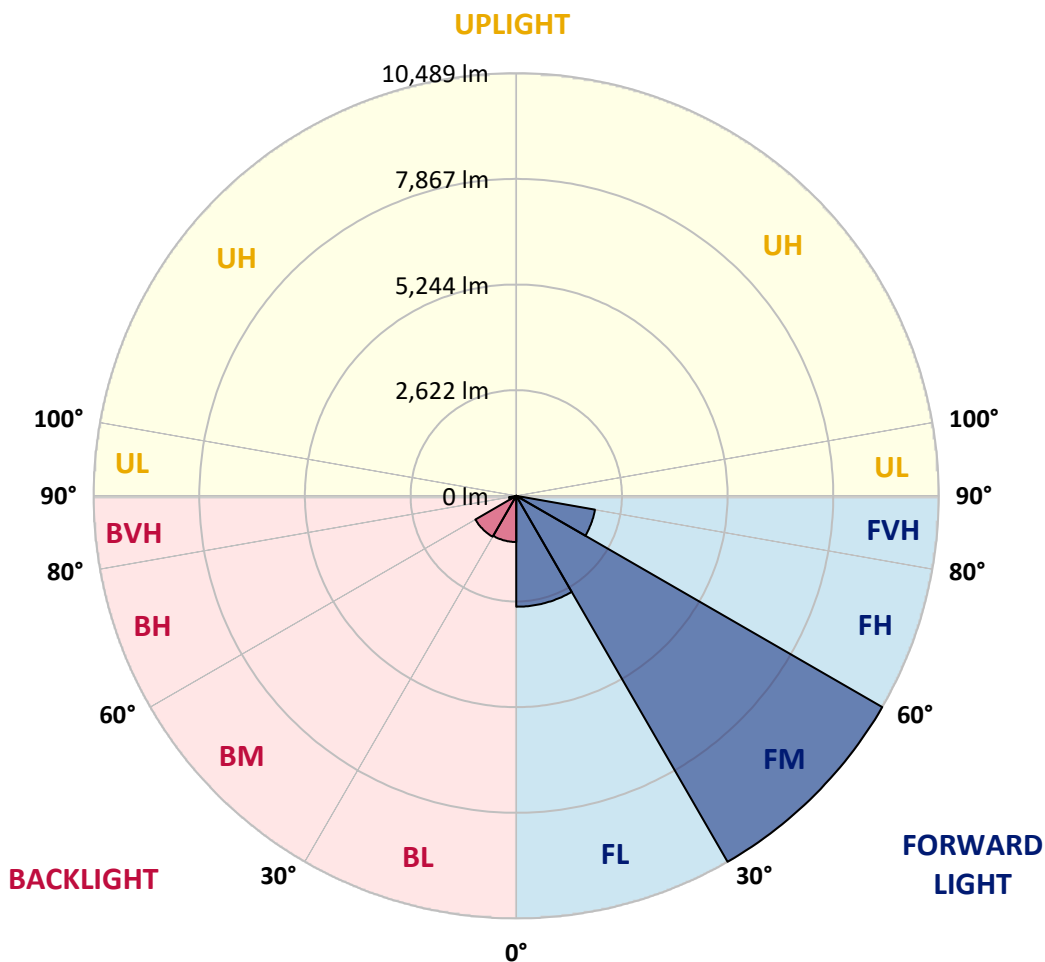


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2753.6	15.5			
FM (30°-60°)	10489.0	59.1			
FH (60°-80°)	1982.6	11.2			G2/5000
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	1146.5	6.5	B3/2500		
BM (30°-60°)	1172.2	6.6	B2/2500		
BH (60°-80°)	179.8	1.0	B1/500		G1/500
BVH (80°-90°)	8.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2
2.5°	8269.4	8183.7	8190.3	8160.6	8121.0	8150.6	8022.0	8051.7	8048.4	7873.6	7758.1
5°	8061.6	8153.9	8058.3	8137.5	8061.6	8144.1	8064.9	8005.5	7909.9	7781.2	7566.8
7.5°	7708.6	7619.6	7646.0	7745.0	7761.4	7946.1	7847.2	7923.1	7883.5	7629.5	7335.9
10°	6999.5	6979.7	7111.6	7243.5	7405.2	7603.1	7679.0	7636.1	7606.4	7510.8	7118.3
12.5°	6455.2	6511.3	6508.0	6725.7	6999.5	7111.6	7309.5	7303.0	7467.9	7289.7	6913.7
15°	5937.3	5967.0	6105.6	6240.8	6544.3	6864.2	7108.3	7141.3	7339.2	7213.9	6755.4
17.5°	5620.7	5577.8	5686.7	5848.3	6158.4	6577.3	6847.7	6926.9	7197.4	7171.0	6574.0
20°	5307.3	5307.3	5396.4	5587.7	5871.4	6343.1	6824.6	6801.5	7197.4	7121.5	6379.3
22.5°	5201.8	5254.6	5277.7	5422.7	5759.2	6165.0	6725.7	6768.6	7253.5	7098.4	6293.6
25°	5346.9	5277.7	5284.2	5399.7	5716.4	6079.2	6653.2	6748.8	7355.7	7213.9	6224.3
27.5°	5370.0	5439.3	5459.1	5538.2	5749.3	6105.6	6834.6	7029.1	7609.7	7484.4	6244.1
30°	5571.2	5640.5	5637.2	5772.4	5917.5	6320.0	7240.2	7279.9	8134.2	7824.1	6366.2
32.5°	5815.3	5887.8	5910.9	6069.3	6184.8	6712.5	7735.0	7837.3	8638.8	8358.4	6686.1
35°	6118.8	6092.4	6197.9	6356.2	6603.7	7286.4	8338.6	8510.2	9183.1	9051.2	7016.0
37.5°	6498.1	6465.1	6567.3	6824.6	7161.1	7965.9	8896.1	9008.3	9578.9	9694.4	7626.2
40°	6765.3	6778.5	7088.5	7434.9	7791.1	8612.5	9249.0	9357.9	9856.0	10294.7	8088.0
42.5°	7210.6	7293.0	7665.8	8088.0	8460.7	9097.4	9536.1	9641.6	9984.7	10776.3	8711.4
45°	7857.1	7820.8	8233.1	8704.8	9117.1	9602.0	9875.8	9839.5	10060.5	11254.6	9103.9
47.5°	8688.3	8694.9	8968.7	9371.1	9799.9	10040.7	10255.1	10126.5	10218.9	11759.3	9628.4
50°	9255.7	9305.2	9526.1	9938.5	10152.8	10522.3	10796.1	10716.9	10687.2	12062.7	9958.3
52.5°	9400.8	9549.2	9668.0	10182.5	10684.0	11267.8	11617.4	11785.6	11257.9	12165.0	10377.2
55°	8305.7	8437.6	8856.5	9562.5	10885.1	12448.6	12930.2	12933.5	12003.3	12620.2	10670.7
57.5°	6639.9	6372.8	6630.1	7378.8	9202.9	12399.2	13570.2	13415.1	12376.1	12353.0	10416.7
60°	4591.5	4525.6	4542.1	4838.9	6369.5	9862.6	12092.4	12293.6	11396.4	10707.1	8246.3
62.5°	3638.3	3582.2	3509.6	3476.7	3954.9	6145.1	8530.0	8813.7	7969.2	6943.4	4888.4
65°	2850.0	2816.9	2826.9	2958.8	2955.5	3486.5	4664.1	4548.7	3641.6	2691.6	1537.1
67.5°	1923.0	1972.5	2012.1	2411.2	2615.8	2427.7	2252.9	2186.9	1184.2	498.1	339.7
70°	1081.9	1088.5	1131.4	1507.4	1985.7	1883.4	1553.6	1553.6	590.5	181.4	194.6
72.5°	590.5	570.7	531.0	649.8	884.0	897.2	692.7	603.6	174.8	118.8	108.8
75°	287.0	283.7	244.1	201.2	191.3	158.3	122.1	112.1	79.2	75.9	66.0
77.5°	59.4	56.1	29.7	29.7	33.0	36.3	46.2	46.2	56.1	56.1	46.2
80°	0.0	0.0	3.3	13.2	23.1	33.0	39.6	39.6	46.2	46.2	36.3
82.5°	0.0	0.0	3.3	9.9	19.8	29.7	36.3	39.6	46.2	49.5	39.6
85°	0.0	0.0	0.0	6.6	16.5	23.1	19.8	19.8	16.5	13.2	6.6
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°	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2	7814.2
2.5°	7698.8	7692.2	7540.4	7454.7	7299.7	7164.4	7055.5	6976.4	6976.4	6926.9	6880.7
5°	7481.1	7425.0	7101.7	6893.9	6600.4	6382.6	6234.2	6118.8	5937.3	5986.8	5792.2
7.5°	7210.6	7068.8	6639.9	6323.3	5917.5	5607.5	5290.8	5010.5	4740.0	4617.9	4683.9
10°	6920.3	6672.9	6095.7	5594.3	5089.7	4522.3	4152.9	3704.2	3427.2	3410.7	3338.1
12.5°	6613.5	6333.1	5630.6	4937.9	4274.9	3592.1	3028.0	2609.1	2421.1	2213.3	2252.9
15°	6382.6	5967.0	5112.7	4278.2	3397.5	2708.1	2140.7	1817.5	1639.4	1589.9	1573.4
17.5°	6132.0	5686.7	4584.9	3575.6	2665.2	1949.4	1540.4	1385.4	1316.1	1316.1	1306.2
20°	5871.4	5370.0	4060.5	2922.5	1998.9	1454.7	1233.6	1184.2	1180.8	1177.6	1177.6
22.5°	5699.8	5007.1	3585.5	2322.1	1507.4	1164.4	1072.0	1052.2	1065.4	1105.0	1105.0
25°	5518.4	4657.5	3061.1	1791.1	1167.7	999.4	946.6	959.9	992.8	1029.2	1015.9
27.5°	5333.7	4429.9	2566.3	1405.2	956.6	874.1	854.3	884.0	920.3	953.3	943.4
30°	5290.8	4185.8	2097.9	1065.4	821.4	761.9	775.2	801.6	837.8	851.0	864.2
32.5°	5356.8	3994.6	1718.5	874.1	715.8	699.3	699.3	712.5	735.6	765.2	755.4
35°	5544.8	3885.6	1359.0	758.6	656.4	639.9	636.6	649.8	663.0	672.9	663.0
37.5°	5831.8	3799.9	1111.6	672.9	616.8	590.5	583.8	580.5	593.7	597.0	603.6
40°	6197.9	3846.1	943.4	620.1	577.2	547.6	527.7	527.7	527.7	537.7	541.0
42.5°	6593.7	3908.7	814.7	590.5	541.0	504.6	484.9	478.3	484.9	498.1	494.8
45°	7009.3	4030.8	732.3	544.3	508.0	461.8	435.4	428.8	445.3	471.7	468.4
47.5°	7398.6	4205.6	669.6	514.6	475.0	432.1	399.1	392.5	422.2	458.5	461.8
50°	7787.8	4509.1	646.5	491.5	451.9	402.4	372.7	366.1	399.1	445.3	455.2
52.5°	8236.5	4835.7	630.0	461.8	425.5	379.4	346.3	339.7	376.0	435.4	438.7
55°	8530.0	5112.7	616.8	409.0	376.0	343.0	316.6	313.4	353.0	405.8	418.9
57.5°	8187.0	4726.8	570.7	356.3	319.9	303.5	280.4	280.4	313.4	362.8	372.7
60°	6207.9	3110.5	405.8	287.0	270.4	260.6	250.7	250.7	277.1	313.4	316.6
62.5°	3635.0	1675.6	260.6	230.9	230.9	221.0	204.5	204.5	230.9	250.7	254.0
65°	1078.6	537.7	211.1	197.9	194.6	178.1	161.6	158.3	178.1	188.0	184.7
67.5°	310.1	247.4	174.8	164.9	161.6	135.2	125.4	122.1	125.4	118.8	115.4
70°	184.7	168.2	135.2	138.5	122.1	99.0	89.0	85.7	79.2	69.3	62.6
72.5°	102.3	102.3	99.0	105.5	85.7	66.0	56.1	46.2	36.3	29.7	26.4
75°	62.6	66.0	69.3	72.6	56.1	42.9	36.3	23.1	13.2	6.6	6.6
77.5°	42.9	46.2	49.5	52.8	46.2	39.6	29.7	16.5	3.3	0.0	0.0
80°	33.0	36.3	42.9	46.2	49.5	52.8	39.6	16.5	3.3	0.0	0.0
82.5°	36.3	39.6	49.5	46.2	46.2	46.2	36.3	16.5	3.3	0.0	0.0
85°	6.6	9.9	16.5	16.5	23.1	29.7	23.1	6.6	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)