

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: P646998

Luminaire Tested: **GALN-SA6C-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646998
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-SA6C-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA 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: 19089.5 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

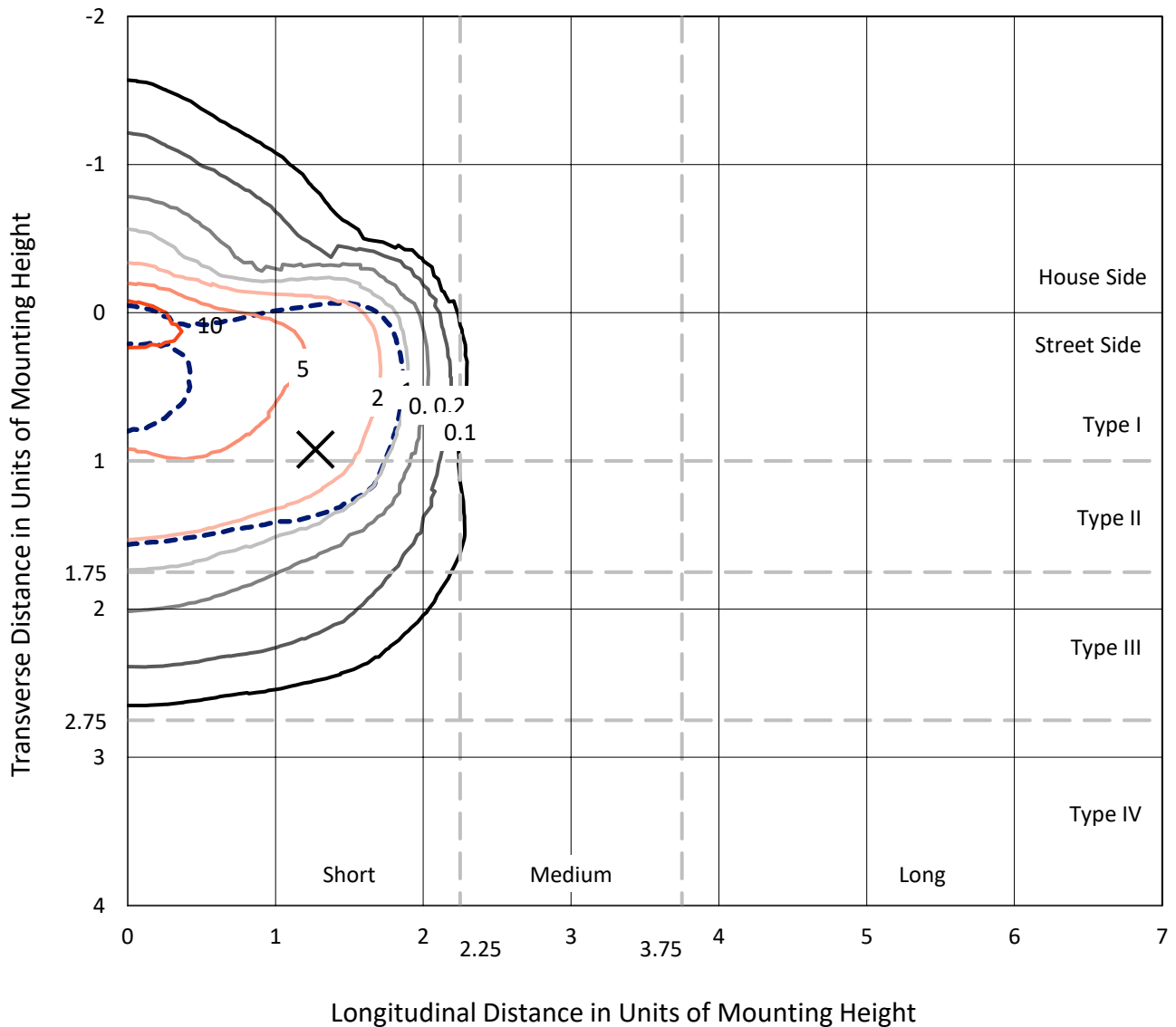
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

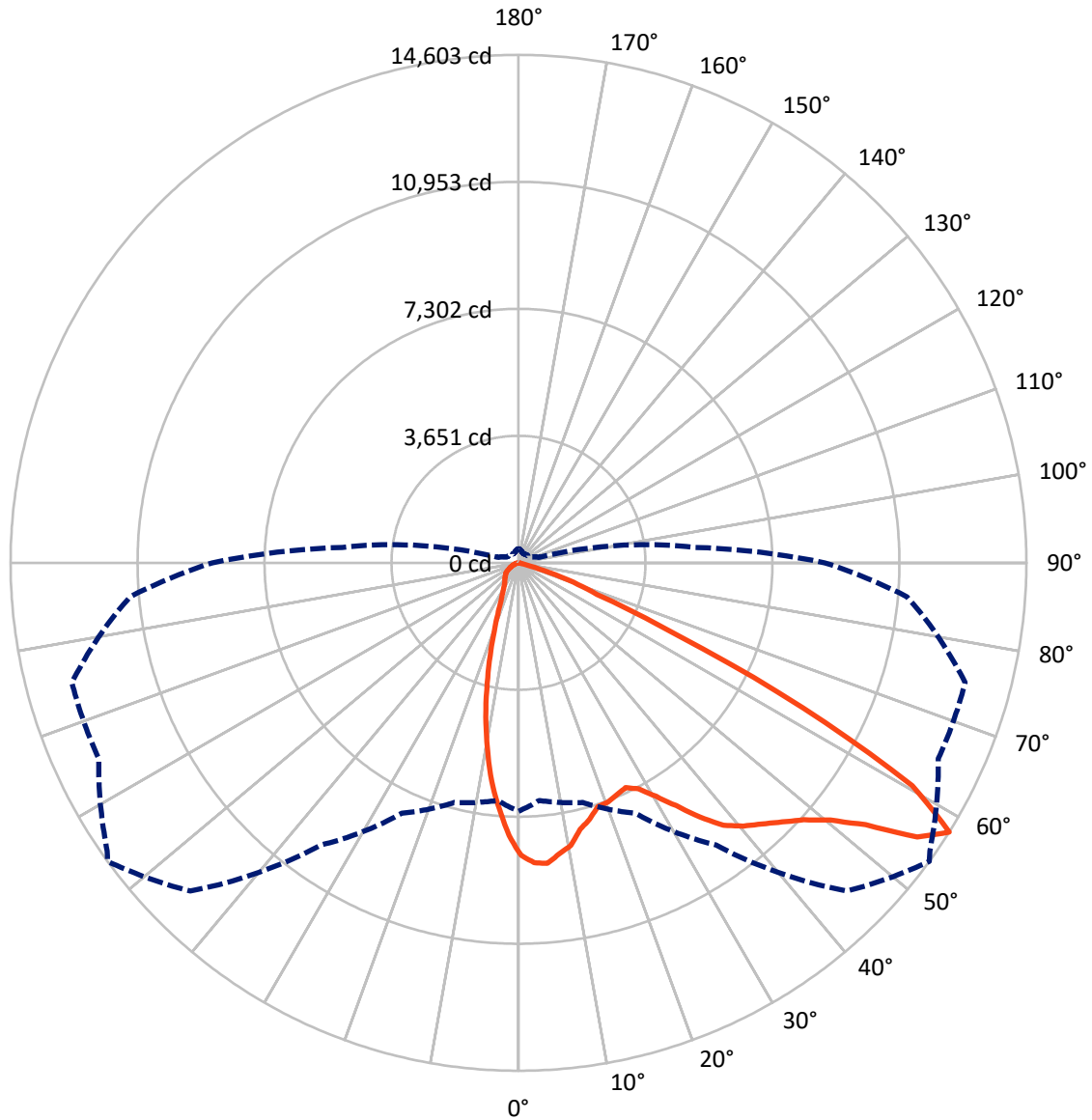
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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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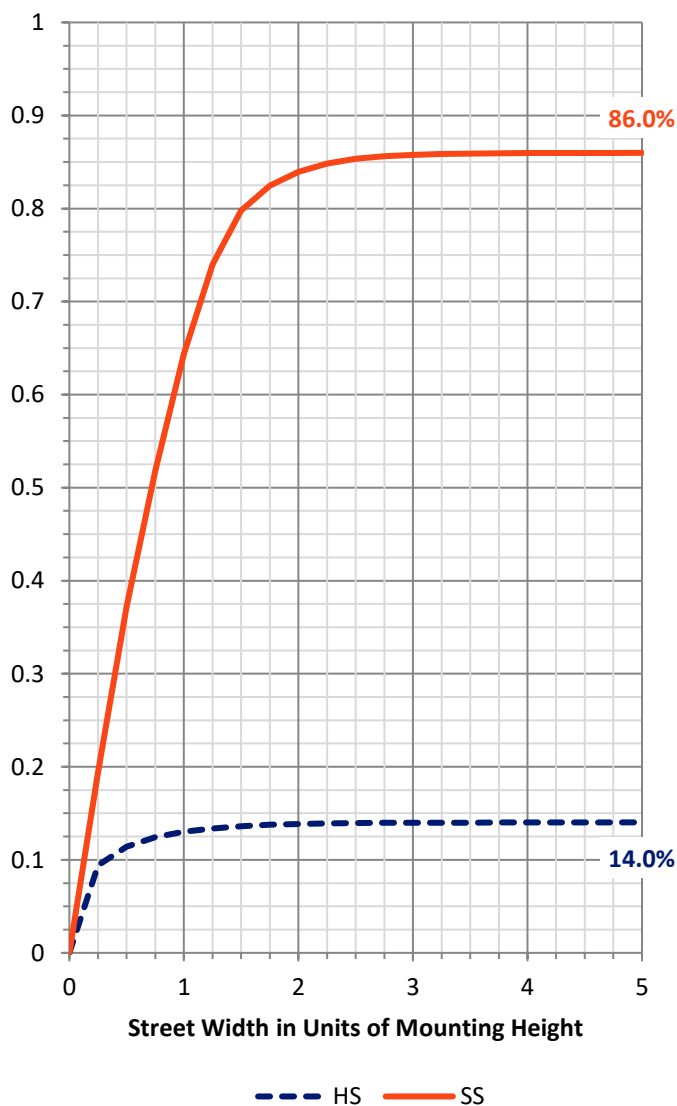
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2697.7	0.0	2697.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	16391.9	0.0	16391.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	19089.5	0.0	19089.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.7	3.7
10°-20°	1502.4	7.9
20°-30°	1991.0	10.4
30°-40°	2893.4	15.2
40°-50°	4290.5	22.5
50°-60°	5365.1	28.1
60°-70°	2116.3	11.1
70°-80°	210.7	1.1
80°-90°	16.4	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°	19089.5	100.0
0°-180°	19089.5	100.0

Coefficient of Utilization

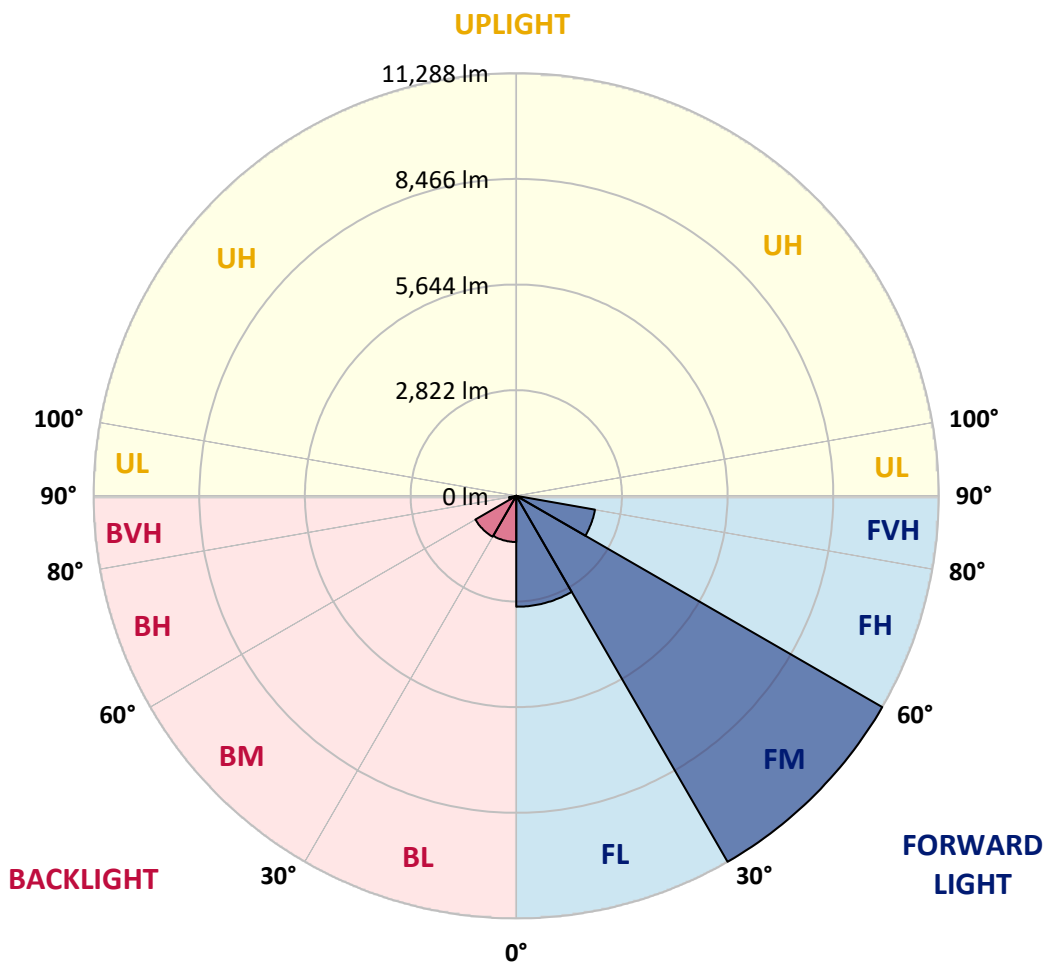


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2963.3	15.5			
FM (30°-60°)	11287.6	59.1			
FH (60°-80°)	2133.6	11.2			G2/5000
FVH (80°-90°)	7.4	0.0			G0/10
BL (0°-30°)	1233.8	6.5	B3/2500		
BM (30°-60°)	1261.5	6.6	B2/2500		
BH (60°-80°)	193.4	1.0	B1/500		G1/500
BVH (80°-90°)	8.9	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°	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2
2.5°	8899.0	8806.8	8813.8	8781.9	8739.3	8771.2	8632.8	8664.8	8661.2	8473.1	8348.8
5°	8675.4	8774.8	8671.9	8757.1	8675.4	8764.2	8679.0	8615.1	8512.1	8373.7	8143.0
7.5°	8295.6	8199.7	8228.2	8334.6	8352.4	8551.2	8444.7	8526.3	8483.7	8210.4	7894.5
10°	7532.5	7511.2	7653.1	7795.1	7969.1	8182.0	8263.6	8217.5	8185.6	8082.6	7660.2
12.5°	6946.7	7007.1	7003.5	7237.8	7532.5	7653.1	7866.1	7859.0	8036.5	7844.8	7440.1
15°	6389.4	6421.4	6570.5	6716.0	7042.5	7386.9	7649.6	7685.1	7898.0	7763.1	7269.8
17.5°	6048.7	6002.5	6119.6	6293.6	6627.2	7078.1	7369.1	7454.3	7745.4	7717.0	7074.5
20°	5711.4	5711.4	5807.3	6013.1	6318.4	6826.0	7344.3	7319.5	7745.4	7663.8	6865.1
22.5°	5597.8	5654.7	5679.5	5835.7	6197.8	6634.4	7237.8	7283.9	7805.7	7638.9	6772.8
25°	5754.0	5679.5	5686.6	5810.8	6151.6	6542.0	7159.7	7262.6	7915.8	7763.1	6698.3
27.5°	5778.9	5853.4	5874.7	5959.9	6187.1	6570.5	7355.0	7564.4	8189.1	8054.3	6719.5
30°	5995.4	6070.0	6066.4	6211.9	6368.1	6801.2	7791.6	7834.1	8753.5	8419.8	6850.9
32.5°	6258.1	6336.2	6361.0	6531.4	6655.7	7223.6	8324.0	8434.1	9296.6	8994.9	7195.2
35°	6584.6	6556.3	6669.8	6840.2	7106.4	7841.3	8973.6	9158.2	9882.3	9740.4	7550.2
37.5°	6992.9	6957.3	7067.4	7344.3	7706.4	8572.5	9573.5	9694.2	10308.3	10432.5	8206.9
40°	7280.4	7294.6	7628.3	8001.0	8384.4	9268.2	9953.3	10070.5	10606.4	11078.6	8703.8
42.5°	7759.6	7848.3	8249.5	8703.8	9105.0	9790.0	10262.2	10375.7	10744.9	11596.8	9374.7
45°	8455.4	8416.3	8860.0	9367.6	9811.3	10333.1	10627.7	10588.7	10826.5	12111.5	9797.1
47.5°	9349.9	9356.9	9651.6	10084.6	10546.1	10805.2	11036.0	10897.6	10996.9	12654.6	10361.5
50°	9960.4	10013.6	10251.5	10695.2	10925.9	11323.5	11618.1	11532.9	11500.9	12981.2	10716.5
52.5°	10116.6	10276.3	10404.1	10957.9	11497.4	12125.7	12502.0	12683.0	12115.0	13091.2	11167.3
55°	8938.1	9080.1	9530.9	10290.5	11714.0	13396.5	13914.8	13918.3	12917.3	13581.1	11483.2
57.5°	7145.5	6858.0	7134.9	7940.6	9903.6	13343.3	14603.4	14436.6	13318.4	13293.5	11209.9
60°	4941.1	4870.2	4887.9	5207.4	6854.5	10613.6	13013.1	13229.6	12264.1	11522.2	8874.2
62.5°	3915.3	3854.9	3776.9	3741.3	4256.1	6613.1	9179.5	9484.8	8576.0	7472.1	5260.7
65°	3066.9	3031.5	3042.1	3184.1	3180.5	3752.0	5019.3	4895.0	3918.8	2896.6	1654.2
67.5°	2069.5	2122.7	2165.3	2594.8	2814.9	2612.6	2424.4	2353.5	1274.3	536.0	365.6
70°	1164.3	1171.4	1217.6	1622.2	2136.9	2026.9	1671.9	1671.9	635.4	195.2	209.5
72.5°	635.4	614.1	571.5	699.3	951.3	965.5	745.4	649.6	188.2	127.8	117.1
75°	308.8	305.3	262.7	216.5	205.9	170.4	131.3	120.7	85.2	81.7	71.0
77.5°	63.9	60.4	31.9	31.9	35.5	39.1	49.7	49.7	60.4	60.4	49.7
80°	0.0	0.0	3.5	14.2	24.8	35.5	42.6	42.6	49.7	49.7	39.1
82.5°	0.0	0.0	3.5	10.6	21.3	31.9	39.1	42.6	49.7	53.2	42.6
85°	0.0	0.0	0.0	7.1	17.8	24.8	21.3	21.3	17.8	14.2	7.1
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°	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2	8409.2
2.5°	8284.9	8277.9	8114.5	8022.3	7855.4	7709.9	7592.8	7507.6	7507.6	7454.3	7404.7
5°	8050.6	7990.4	7642.5	7418.8	7102.9	6868.6	6708.9	6584.6	6389.4	6442.7	6233.2
7.5°	7759.6	7607.0	7145.5	6804.7	6368.1	6034.4	5693.7	5392.0	5100.9	4969.5	5040.6
10°	7447.3	7181.0	6559.8	6020.3	5477.2	4866.6	4469.1	3986.3	3688.1	3670.4	3592.2
12.5°	7117.1	6815.4	6059.3	5313.9	4600.4	3865.6	3258.6	2807.8	2605.4	2381.8	2424.4
15°	6868.6	6421.4	5502.0	4604.0	3656.1	2914.3	2303.7	1955.9	1764.2	1710.9	1693.2
17.5°	6598.9	6119.6	4934.1	3847.8	2868.1	2097.9	1657.7	1490.8	1416.3	1416.3	1405.6
20°	6318.4	5778.9	4369.7	3145.0	2151.1	1565.4	1327.6	1274.3	1270.8	1267.2	1267.2
22.5°	6133.9	5388.4	3858.5	2498.9	1622.2	1253.0	1153.7	1132.4	1146.5	1189.1	1189.1
25°	5938.6	5012.1	3294.1	1927.5	1256.6	1075.5	1018.8	1032.9	1068.5	1107.5	1093.3
27.5°	5739.9	4767.2	2761.6	1512.1	1029.4	940.7	919.4	951.3	990.3	1025.9	1015.2
30°	5693.7	4504.5	2257.6	1146.5	883.9	820.0	834.2	862.6	901.6	915.8	930.0
32.5°	5764.7	4298.7	1849.4	940.7	770.3	752.5	752.5	766.7	791.6	823.6	812.9
35°	5967.0	4181.5	1462.5	816.4	706.4	688.6	685.1	699.3	713.5	724.1	713.5
37.5°	6275.8	4089.2	1196.3	724.1	663.8	635.4	628.3	624.8	638.9	642.5	649.6
40°	6669.8	4138.9	1015.2	667.4	621.2	589.3	568.0	568.0	568.0	578.6	582.2
42.5°	7095.8	4206.4	876.8	635.4	582.2	543.1	521.8	514.7	521.8	536.0	532.4
45°	7543.1	4337.7	788.0	585.7	546.6	497.0	468.5	461.4	479.2	507.6	504.0
47.5°	7961.9	4525.8	720.6	553.7	511.1	465.0	429.5	422.4	454.4	493.4	497.0
50°	8380.8	4852.4	695.8	528.9	486.3	433.1	401.1	394.0	429.5	479.2	489.8
52.5°	8863.6	5203.8	678.0	497.0	457.9	408.2	372.7	365.6	404.7	468.5	472.1
55°	9179.5	5502.0	663.8	440.1	404.7	369.2	340.8	337.2	379.8	436.6	450.8
57.5°	8810.3	5086.7	614.1	383.4	344.3	326.6	301.7	301.7	337.2	390.5	401.1
60°	6680.5	3347.3	436.6	308.8	291.0	280.4	269.7	269.7	298.2	337.2	340.8
62.5°	3911.8	1803.2	280.4	248.4	248.4	237.8	220.1	220.1	248.4	269.7	273.3
65°	1160.7	578.6	227.1	213.0	209.5	191.7	173.9	170.4	191.7	202.3	198.8
67.5°	333.6	266.2	188.2	177.5	173.9	145.6	134.9	131.3	134.9	127.8	124.3
70°	198.8	181.0	145.6	149.1	131.3	106.5	95.8	92.3	85.2	74.5	67.4
72.5°	110.0	110.0	106.5	113.6	92.3	71.0	60.4	49.7	39.1	31.9	28.4
75°	67.4	71.0	74.5	78.1	60.4	46.1	39.1	24.8	14.2	7.1	7.1
77.5°	46.1	49.7	53.2	56.8	49.7	42.6	31.9	17.8	3.5	0.0	0.0
80°	35.5	39.1	46.1	49.7	53.2	56.8	42.6	17.8	3.5	0.0	0.0
82.5°	39.1	42.6	53.2	49.7	49.7	49.7	39.1	17.8	3.5	0.0	0.0
85°	7.1	10.6	17.8	17.8	24.8	31.9	24.8	7.1	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)