

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: P648534

Luminaire Tested: **GALN-SA7B-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18113.1 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

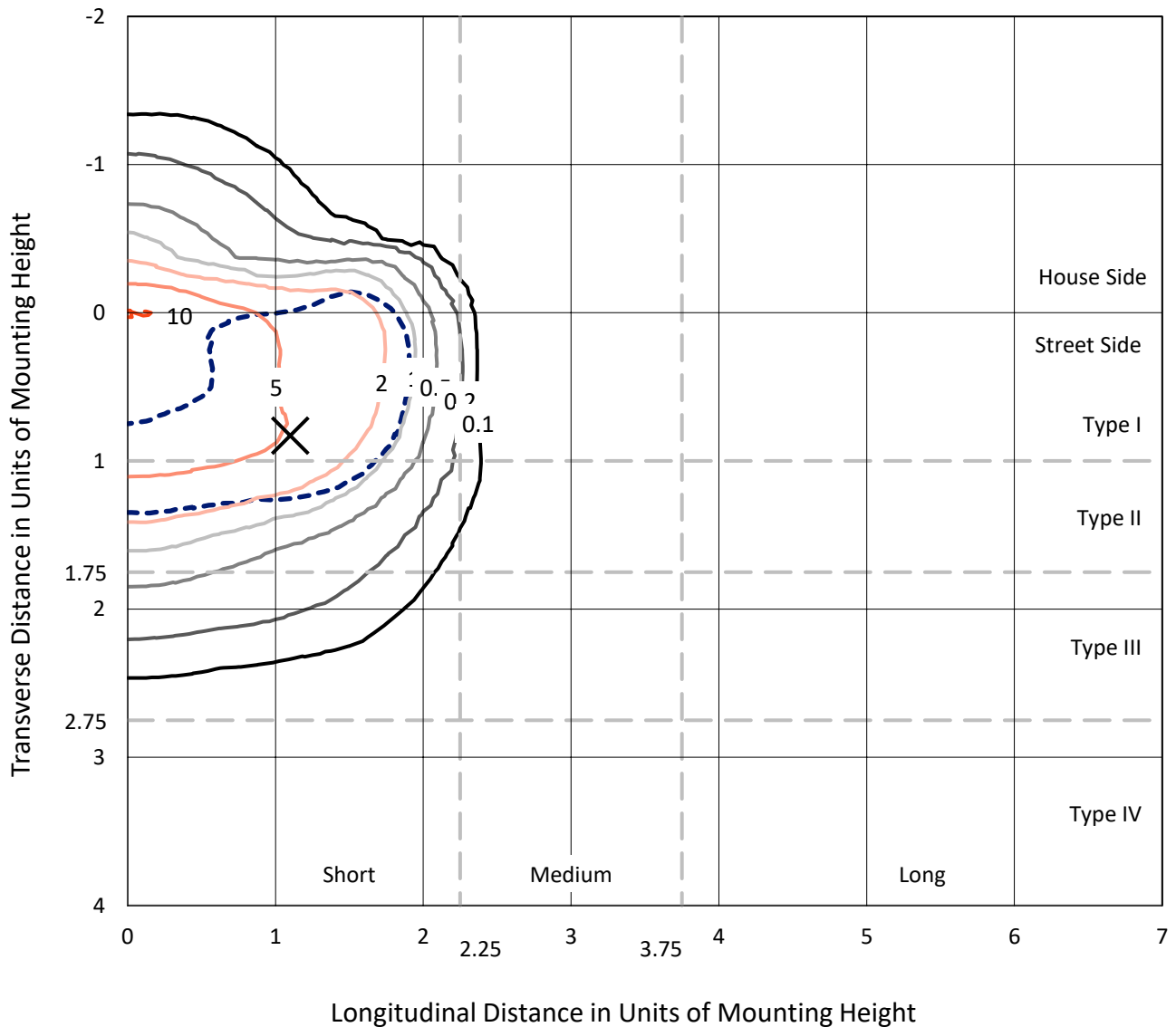
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

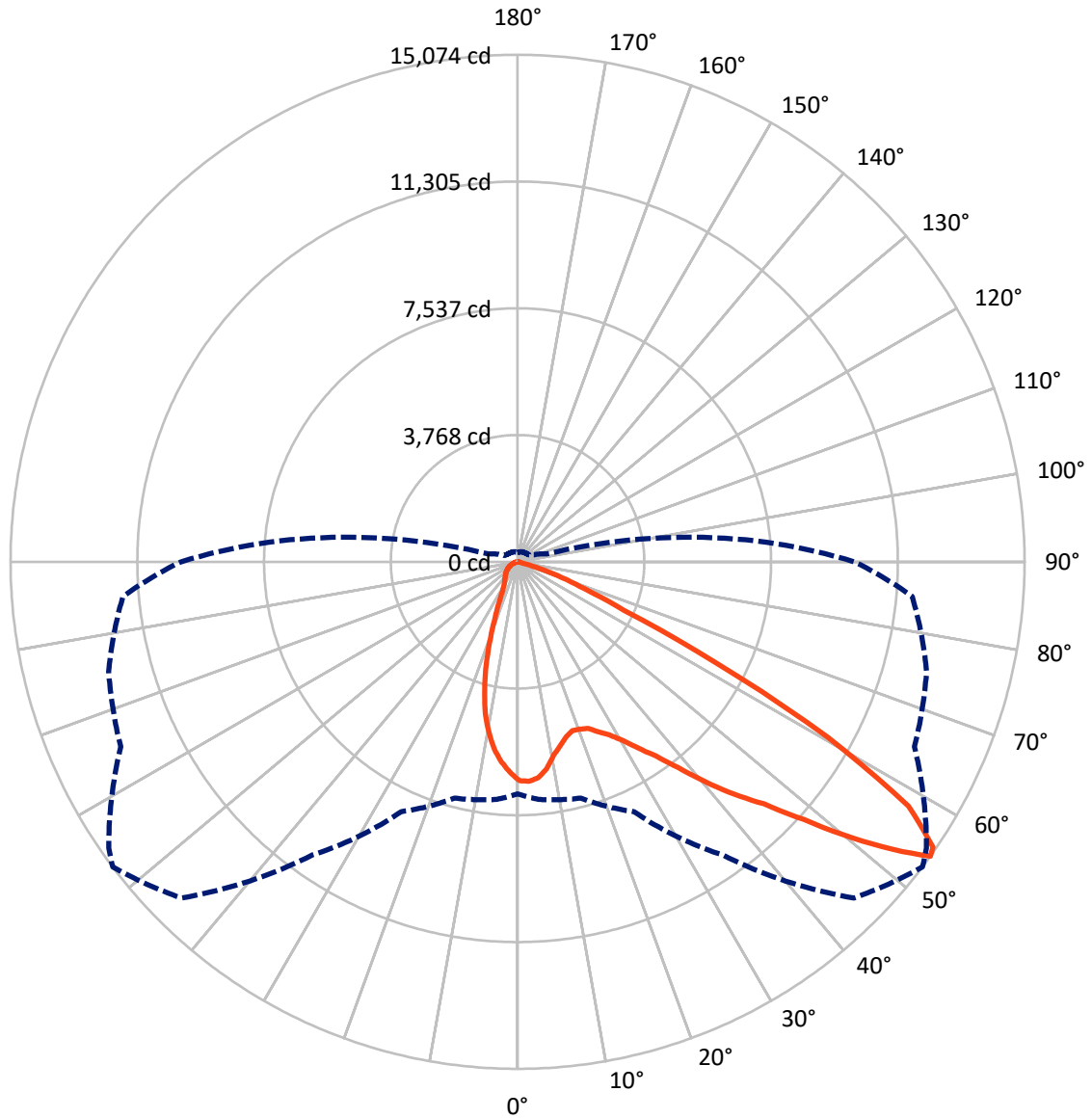
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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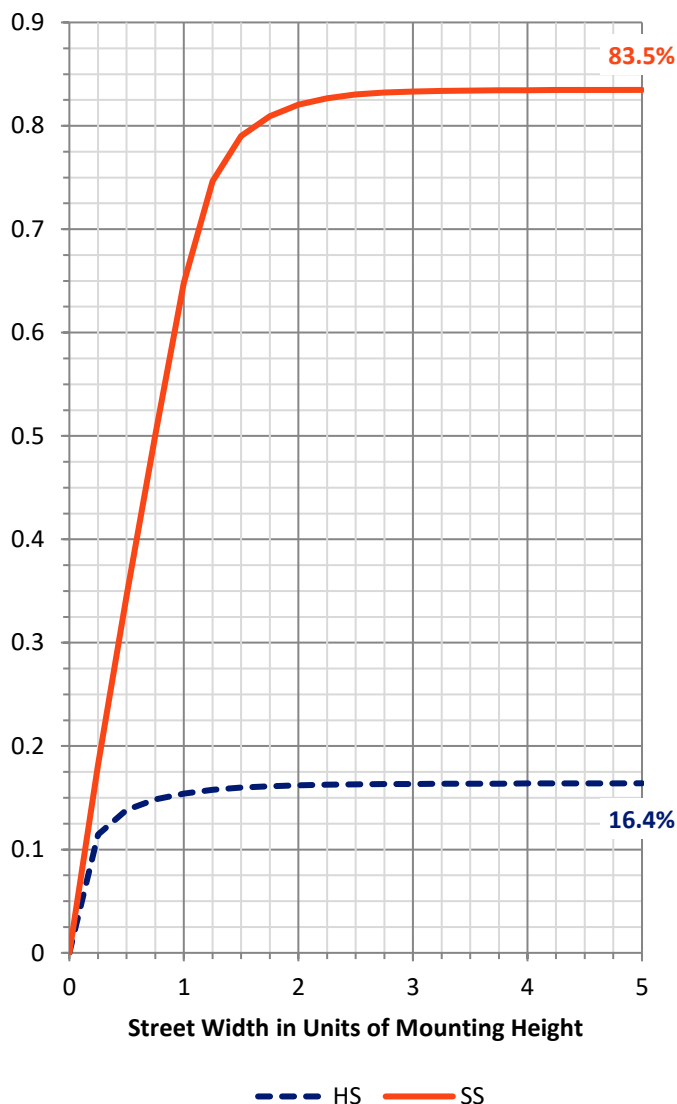
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2996.9	0.0	2996.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	15116.3	0.0	15116.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	18113.1	0.0	18113.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	558.2	3.1
10°-20°	1279.8	7.1
20°-30°	1818.8	10.0
30°-40°	2806.9	15.5
40°-50°	4401.0	24.3
50°-60°	5112.4	28.2
60°-70°	1931.8	10.7
70°-80°	183.7	1.0
80°-90°	20.7	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°	18113.1	100.0
0°-180°	18113.1	100.0

Coefficient of Utilization

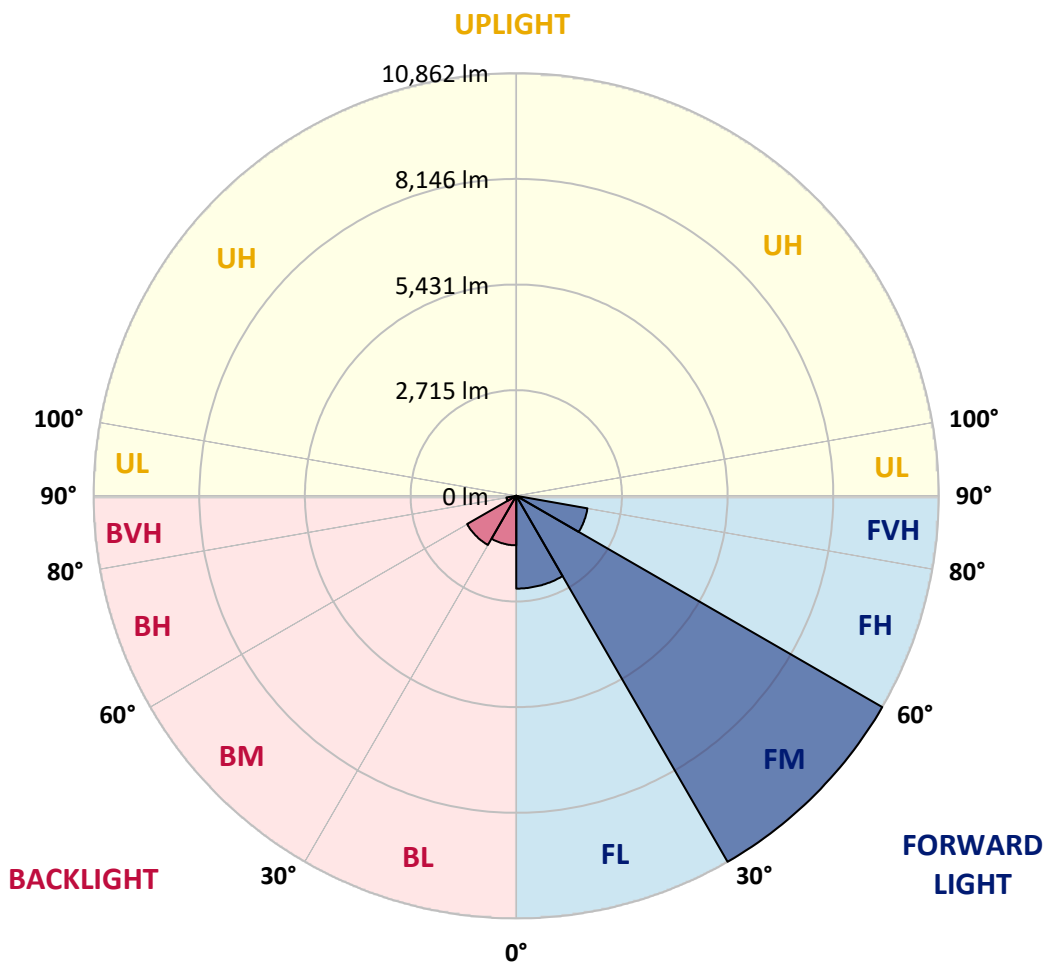


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2385.0	13.2			
FM (30°-60°)	10861.9	60.0			
FH (60°-80°)	1858.7	10.3			G2/5000
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	1271.7	7.0	B3/2500		
BM (30°-60°)	1458.4	8.1	B2/2500		
BH (60°-80°)	256.8	1.4	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			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°	53°	55°	65°	75°	85°
0°	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9
2.5°	6472.2	6414.8	6472.2	6478.9	6519.4	6556.5	6533.0	6586.9	6556.5	6522.8	6512.7
5°	5949.2	6026.8	6030.1	6151.6	6124.6	6347.3	6445.2	6418.2	6583.5	6573.4	6549.8
7.5°	5480.1	5449.8	5490.2	5632.0	5810.8	6067.2	6209.0	6205.6	6441.8	6610.6	6593.6
10°	5044.8	5041.4	5125.8	5237.2	5389.0	5659.0	5854.6	5952.5	6320.4	6576.8	6613.9
12.5°	4751.2	4737.7	4828.8	4920.0	5159.5	5368.7	5618.4	5665.7	6087.5	6458.7	6519.4
15°	4558.9	4589.2	4596.0	4771.4	4923.3	5200.1	5395.7	5493.6	5979.5	6364.2	6597.0
17.5°	4525.1	4565.6	4569.0	4714.1	4876.1	5108.9	5281.0	5412.6	5888.4	6411.4	6600.5
20°	4592.6	4569.0	4589.2	4680.4	4838.9	5061.7	5311.4	5355.3	5858.0	6435.1	6637.6
22.5°	4785.0	4778.2	4727.6	4801.8	4913.2	5146.0	5382.3	5449.8	5945.8	6556.5	6667.9
25°	4997.6	5034.7	4987.4	4977.3	5054.9	5284.4	5598.2	5685.9	6239.3	6775.9	6762.4
27.5°	5395.7	5358.6	5358.6	5311.4	5291.1	5402.5	5831.1	5976.2	6566.7	7059.4	6870.4
30°	5777.1	5817.5	5787.2	5804.1	5669.1	5659.0	6161.7	6340.6	7147.1	7491.3	7099.9
32.5°	6381.1	6327.1	6377.7	6333.8	6155.0	5972.8	6610.6	6796.1	7848.9	7987.3	7444.1
35°	6883.9	6860.3	7076.2	7069.5	6779.3	6600.5	7086.3	7363.0	8338.2	8581.2	7848.9
37.5°	7599.2	7555.4	7801.7	7919.8	7660.0	7393.4	7768.0	8088.5	8793.8	9057.0	8264.0
40°	8334.9	8446.2	8777.0	8972.6	8695.9	8341.6	8601.5	8699.3	9097.5	9367.5	8547.5
42.5°	9266.3	9428.2	9765.7	9934.4	9910.7	9526.1	9448.5	9445.1	9316.8	9279.7	8756.7
45°	10160.4	10099.7	10619.4	10987.2	11284.1	11172.8	10265.1	10163.8	9664.4	9411.3	8810.7
47.5°	10551.9	10531.7	10886.0	11540.6	12553.0	12691.3	11452.9	11061.4	10251.6	9964.8	9104.3
50°	10045.7	10150.3	10501.3	11226.8	12779.0	13835.2	12910.7	12384.2	10936.6	10639.6	9799.4
52.5°	8392.3	8463.1	8797.2	9718.4	12009.7	14510.1	14307.7	14004.0	12195.2	11702.6	11010.9
54°	6900.7	7089.8	7272.0	8196.5	10639.6	14135.6	15073.7	14840.8	13015.3	12586.7	11773.4
55°	6009.9	6121.3	6252.9	7174.1	9691.4	13501.2	14985.9	15006.2	13565.2	12863.4	12286.4
57.5°	4390.1	4467.8	4332.8	4741.1	6654.4	10963.6	13707.0	14253.7	14307.7	13278.4	12600.2
60°	3354.2	3388.0	3236.1	3300.2	4137.1	7525.0	10602.5	11260.6	12907.3	11604.7	10673.4
62.5°	2601.7	2608.5	2605.0	2716.5	2851.4	4427.2	6630.8	7214.6	8898.4	8240.4	7248.3
65°	1916.7	1886.3	1940.3	2277.7	2432.9	2784.0	3492.6	3917.7	4835.6	4083.1	2918.9
67.5°	1241.8	1251.9	1305.9	1693.9	2085.4	2136.0	2149.5	2115.7	2119.2	1167.5	732.3
70°	745.7	762.6	745.7	958.3	1491.5	1532.0	1400.4	1366.6	1066.3	276.7	273.3
72.5°	442.1	418.4	374.6	411.7	620.9	742.4	668.1	664.8	418.4	162.0	162.0
75°	185.6	168.7	138.4	124.9	165.4	158.6	158.6	141.7	111.3	108.0	101.2
77.5°	37.1	37.1	27.0	30.4	40.5	47.2	57.4	57.4	67.5	67.5	64.1
80°	0.0	3.4	10.1	20.3	30.4	43.8	50.6	50.6	57.4	57.4	47.2
82.5°	0.0	3.4	10.1	20.3	27.0	40.5	50.6	50.6	57.4	60.8	50.6
85°	0.0	3.4	10.1	16.8	27.0	33.7	33.7	30.4	23.6	20.3	13.5
87.5°	0.0	0.0	3.4	6.7	3.4	6.7	6.7	6.7	6.7	6.7	6.7
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°	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9	6505.9
2.5°	6536.3	6533.0	6451.9	6320.4	6290.0	6178.6	6165.1	6097.6	6134.7	6009.9	5996.4
5°	6482.3	6441.8	6343.9	6259.6	6013.3	5837.8	5699.5	5530.7	5432.8	5449.8	5385.6
7.5°	6559.9	6455.3	6283.2	5989.6	5689.4	5382.3	5216.9	4872.7	4747.9	4562.2	4535.3
10°	6478.9	6401.3	6134.7	5648.8	5233.7	4791.7	4403.7	4022.3	3732.2	3607.3	3580.3
12.5°	6472.2	6337.2	5891.8	5351.9	4751.2	4116.9	3553.3	3077.5	2790.7	2628.7	2591.6
15°	6367.6	6205.6	5618.4	4893.0	4062.8	3273.2	2659.1	2200.2	1980.8	1886.3	1913.3
17.5°	6377.7	6134.7	5345.1	4407.0	3384.6	2402.6	1815.5	1579.2	1521.8	1545.5	1545.5
20°	6367.6	5976.2	5014.4	3846.9	2591.6	1667.0	1332.9	1248.6	1285.7	1359.9	1343.0
22.5°	6313.6	5901.9	4710.8	3256.3	1906.5	1235.0	1069.7	1073.1	1130.4	1221.6	1241.8
25°	6354.0	5736.6	4326.1	2659.1	1390.3	985.3	928.0	951.6	1012.3	1079.8	1093.3
27.5°	6323.7	5618.4	3924.5	2065.2	1015.7	847.0	843.6	870.6	897.6	948.2	948.2
30°	6357.5	5510.4	3529.7	1535.4	836.9	776.1	762.6	782.8	809.9	820.0	816.6
32.5°	6482.3	5429.5	3074.1	1147.3	739.0	708.6	708.6	708.6	705.2	718.8	722.2
35°	6755.6	5442.9	2672.5	887.5	674.9	651.3	641.1	627.7	620.9	627.7	631.0
37.5°	7052.6	5436.2	2257.5	755.9	627.7	607.4	583.8	563.5	560.2	566.9	556.8
40°	7184.2	5500.3	1872.8	678.2	583.8	560.2	523.0	506.1	509.6	516.3	509.6
42.5°	7363.0	5520.6	1623.1	617.6	543.3	506.1	482.6	462.3	458.9	469.0	465.7
45°	7359.7	5405.8	1359.9	583.8	506.1	465.7	435.3	418.4	418.4	425.2	428.5
47.5°	7575.6	5389.0	1167.5	553.4	479.2	438.7	401.5	388.1	384.7	384.7	378.0
50°	8078.4	5625.2	1019.1	519.7	445.4	408.3	378.0	361.0	347.6	340.8	337.5
52.5°	9060.4	6360.9	904.4	479.2	408.3	378.0	350.9	337.5	320.6	303.7	300.4
54°	10012.0	7120.1	897.6	445.4	378.0	357.7	334.1	327.3	307.1	283.4	276.7
55°	10440.5	7562.1	921.2	418.4	357.7	344.2	323.9	317.2	296.9	270.0	266.6
57.5°	10794.8	7734.2	907.7	347.6	323.9	320.6	303.7	293.5	270.0	232.9	226.1
60°	8689.2	5847.9	651.3	307.1	296.9	290.2	276.7	270.0	239.6	199.1	195.8
62.5°	5490.2	3364.3	415.1	270.0	259.8	249.7	232.9	226.1	199.1	158.6	148.5
65°	2338.5	1393.7	280.1	239.6	222.7	205.9	192.3	182.2	158.6	118.1	114.7
67.5°	607.4	496.0	232.9	209.2	185.6	162.0	151.8	135.0	108.0	81.0	77.6
70°	273.3	249.7	195.8	175.5	148.5	124.9	111.3	94.5	70.9	54.0	50.6
72.5°	162.0	158.6	148.5	131.6	111.3	94.5	81.0	64.1	47.2	30.4	30.4
75°	101.2	97.9	101.2	91.1	77.6	70.9	60.8	43.8	27.0	13.5	13.5
77.5°	60.8	60.8	60.8	57.4	54.0	54.0	43.8	27.0	13.5	3.4	3.4
80°	47.2	47.2	50.6	47.2	47.2	47.2	37.1	20.3	6.7	0.0	0.0
82.5°	47.2	50.6	57.4	54.0	47.2	40.5	33.7	20.3	6.7	0.0	0.0
85°	13.5	10.1	16.8	23.6	33.7	30.4	23.6	16.8	6.7	0.0	0.0
87.5°	6.7	6.7	6.7	6.7	3.4	3.4	3.4	3.4	3.4	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)