

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: P647001

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-835-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32354.4 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

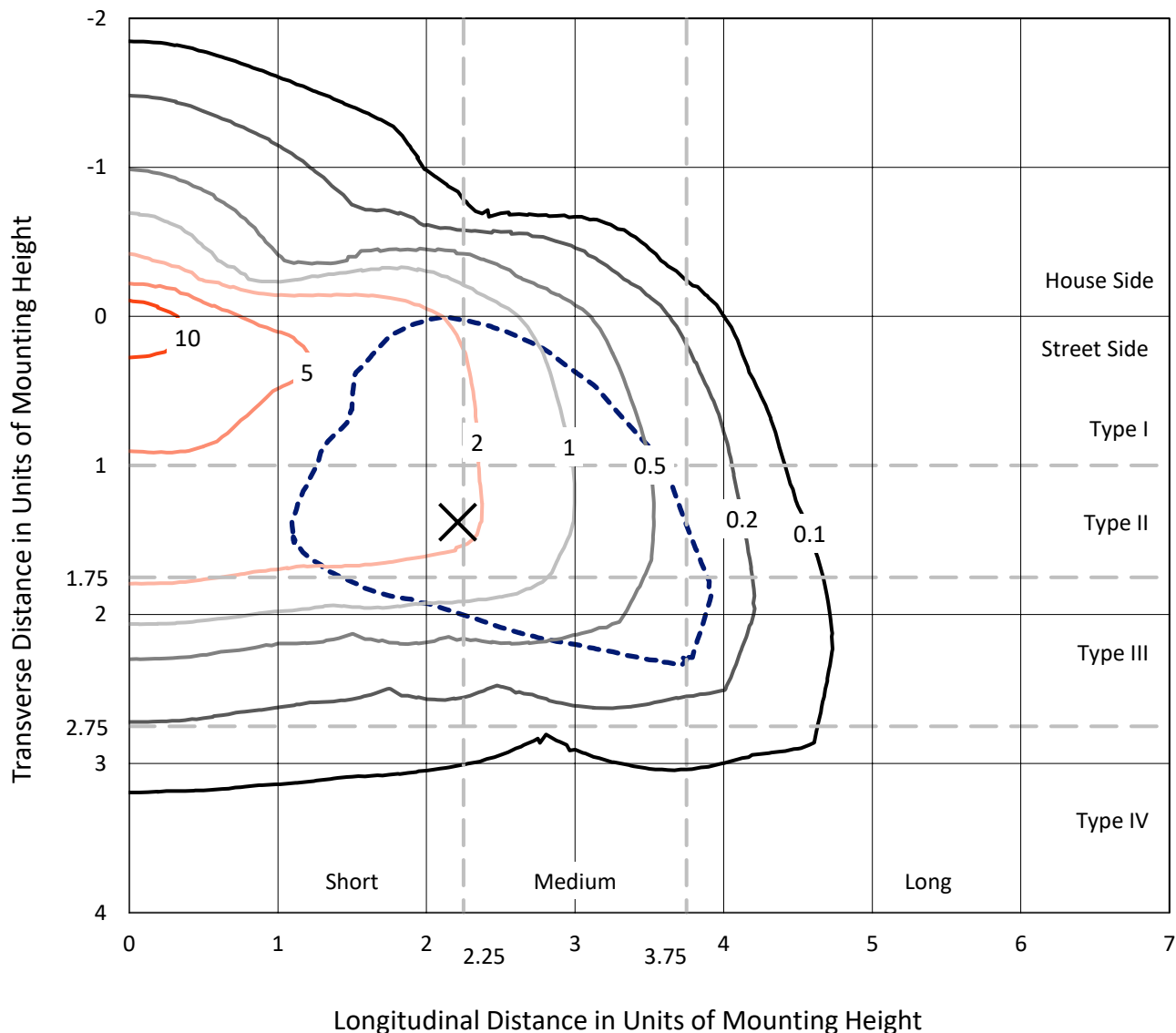
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

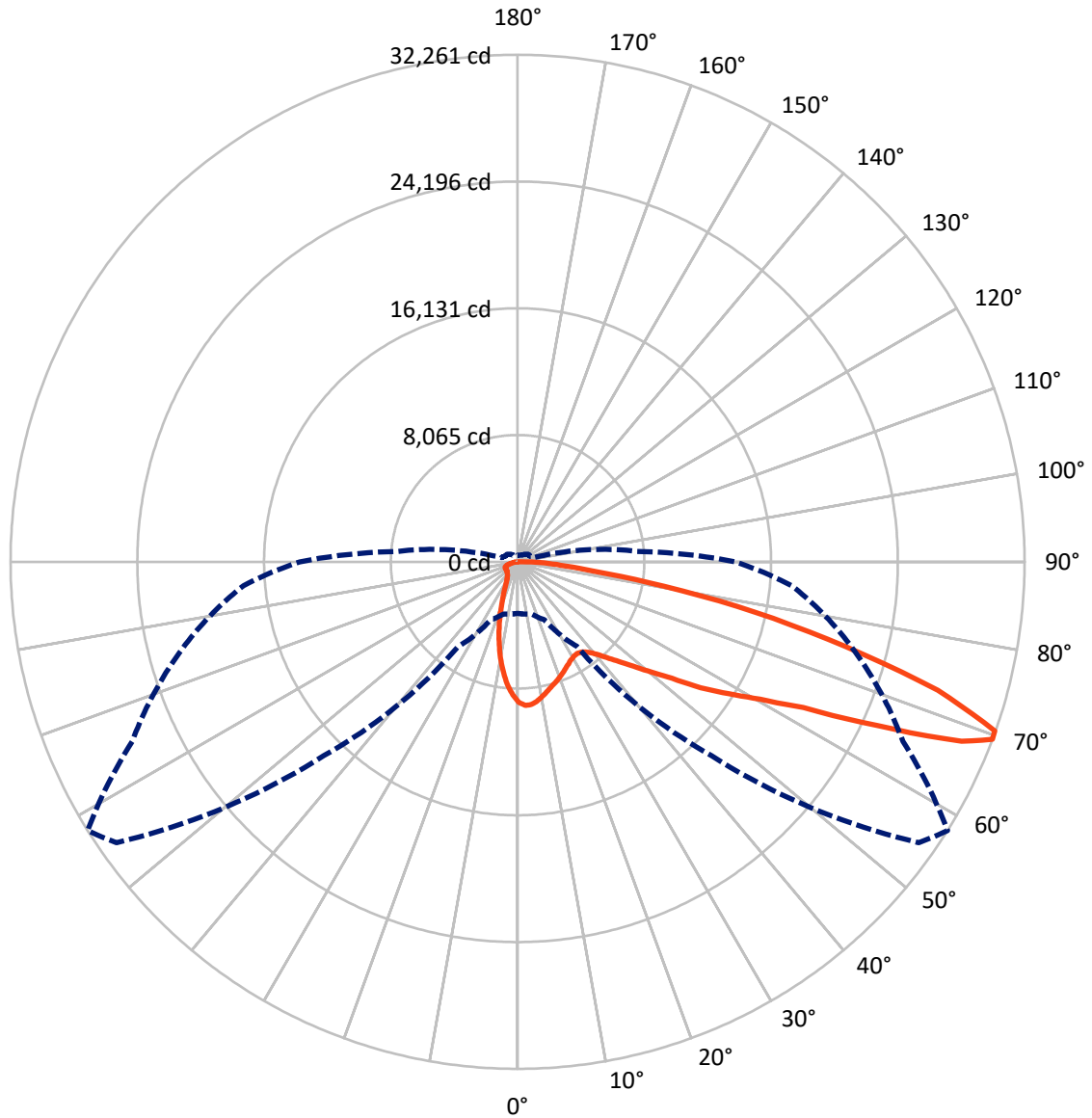
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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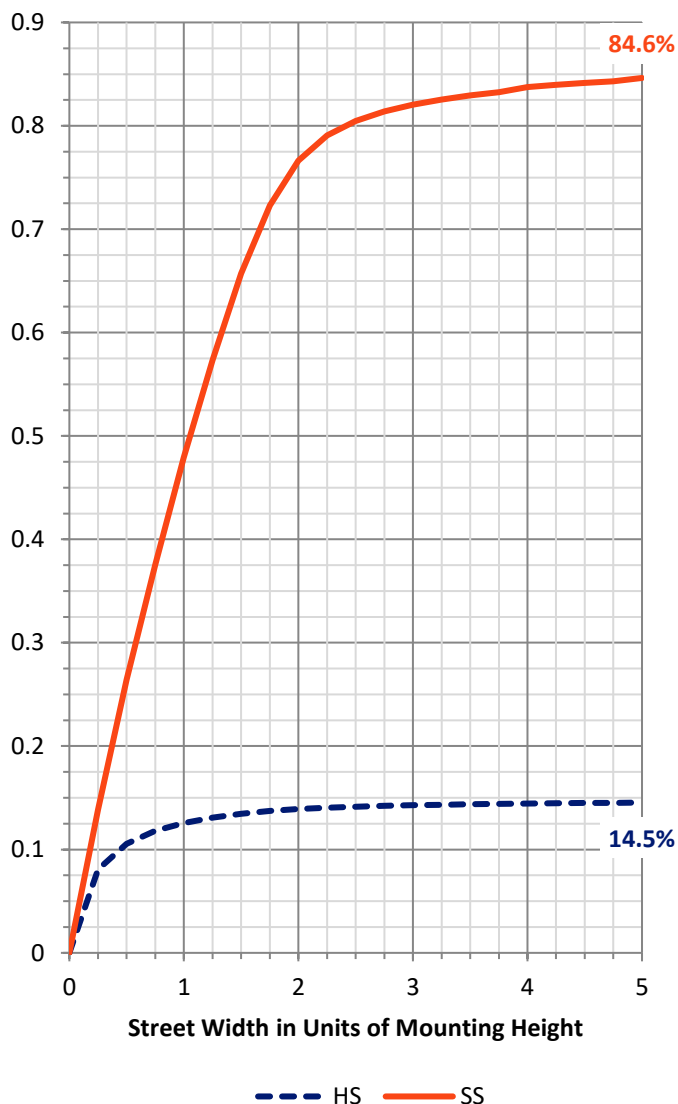
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4741.6	0.0	4741.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	27612.8	0.0	27612.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	32354.4	0.0	32354.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.3	2.3
10°-20°	1667.3	5.2
20°-30°	2154.1	6.7
30°-40°	2797.8	8.6
40°-50°	4067.6	12.6
50°-60°	6490.6	20.1
60°-70°	8670.7	26.8
70°-80°	4998.3	15.4
80°-90°	748.6	2.3
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°	32354.4	100.0
0°-180°	32354.4	100.0

Coefficient of Utilization

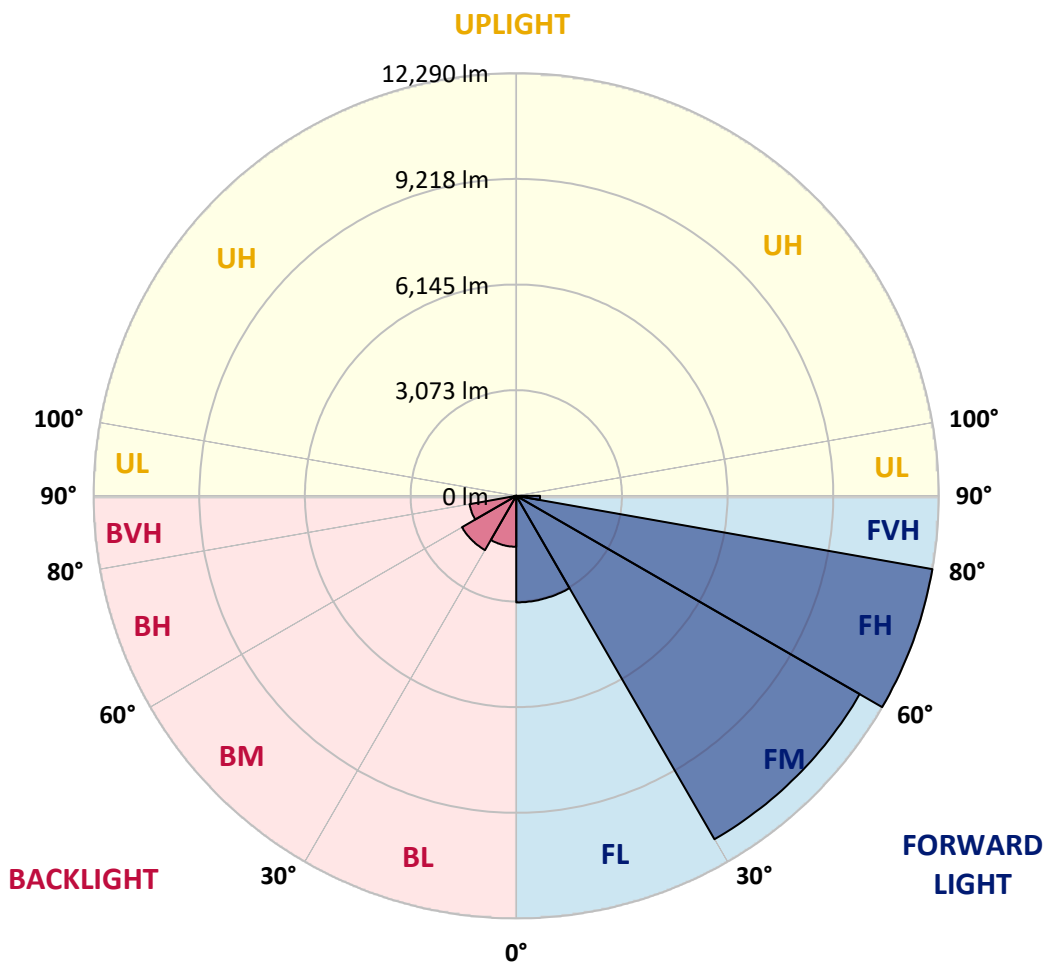


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3098.7	9.6			
FM (30°-60°)	11532.6	35.6			
FH (60°-80°)	12290.2	38.0			G5
FVH (80°-90°)	691.3	2.1			G4/750
BL (0°-30°)	1482.0	4.6	B3/2500		
BM (30°-60°)	1823.4	5.6	B2/2500		
BH (60°-80°)	1378.8	4.3	B3/2500		G3/2500
BVH (80°-90°)	57.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8
2.5°	9272.8	9298.1	9290.9	9281.9	9267.4	9227.7	9162.8	9151.9	9110.4	9022.0	8911.9
5°	9130.3	9151.9	9153.7	9166.4	9184.4	9177.2	9130.3	9124.9	9063.5	8944.4	8760.4
7.5°	8641.3	8670.2	8733.3	8803.7	8866.8	8926.4	8940.8	8949.8	8911.9	8774.8	8529.5
10°	8091.0	8119.9	8148.7	8253.4	8408.6	8556.5	8679.2	8695.4	8704.5	8578.2	8278.7
12.5°	7481.1	7540.6	7602.0	7757.2	7964.7	8197.5	8414.0	8448.3	8509.6	8414.0	8062.1
15°	6963.2	7024.5	7113.0	7251.9	7502.7	7838.4	8143.3	8199.3	8320.2	8271.4	7860.0
17.5°	6604.1	6625.8	6687.1	6845.9	7116.6	7470.3	7878.1	7989.9	8183.0	8170.4	7686.8
20°	6320.8	6347.9	6385.8	6483.2	6764.7	7138.2	7630.9	7775.2	8036.9	8080.2	7515.4
22.5°	6201.8	6221.6	6216.2	6268.5	6459.8	6835.1	7380.0	7551.5	7906.9	8018.8	7356.6
25°	6209.0	6227.0	6200.0	6187.3	6301.0	6568.0	7118.4	7336.7	7802.3	7977.3	7212.2
27.5°	6329.9	6342.5	6292.0	6241.4	6250.5	6402.0	6901.8	7143.6	7713.9	7995.4	7091.3
30°	6492.2	6515.7	6483.2	6421.9	6355.1	6362.3	6762.9	7001.1	7672.4	8058.5	7033.6
32.5°	6701.5	6723.2	6708.8	6660.0	6573.4	6477.8	6728.6	6948.8	7676.0	8186.6	7020.9
35°	6921.7	6965.0	6988.5	6984.8	6914.5	6748.5	6863.9	7046.2	7762.6	8401.4	7094.9
37.5°	7170.7	7206.8	7307.8	7372.8	7307.8	7114.8	7168.9	7295.2	7953.9	8711.7	7257.3
40°	7412.5	7466.6	7614.6	7816.7	7791.5	7621.8	7634.5	7717.5	8291.3	9173.6	7574.9
42.5°	7665.1	7730.1	7988.1	8287.7	8347.2	8215.5	8249.8	8323.8	8771.2	9814.2	8119.9
45°	7989.9	8067.5	8385.1	8758.6	8993.1	8911.9	9009.4	9045.5	9413.6	10647.8	8838.0
47.5°	8408.6	8498.8	8890.3	9355.8	9687.9	9761.8	9931.5	9909.8	10209.4	11634.8	9769.1
50°	9114.0	9164.6	9534.5	10009.1	10465.6	10799.4	10983.5	11017.7	11196.4	12594.8	10810.2
52.5°	9953.1	9998.2	10265.3	10680.3	11252.3	11959.6	12414.3	12302.5	12345.8	13764.0	12028.2
55°	10896.9	10972.6	11142.2	11418.3	12159.9	13201.1	14114.1	14141.1	13661.2	14882.8	13195.7
57.5°	11627.6	11755.7	12046.2	12439.6	13379.7	14581.4	15808.5	15826.5	15213.0	16077.3	14484.0
60°	11259.5	11411.1	12075.1	13033.3	14980.2	16990.3	17833.0	17730.1	16723.2	17437.8	16055.6
62.5°	9671.6	9698.7	10664.1	12161.7	15472.8	20213.0	20846.4	20411.5	18738.8	19162.8	17652.5
65°	6259.5	6436.3	7201.4	9299.9	13854.2	22001.1	26126.0	25121.0	21564.5	21120.6	18989.6
67.5°	3951.6	3906.5	4224.1	5310.4	9529.1	20425.9	30631.7	30472.9	25259.9	22356.6	18670.2
69°	3276.8	3327.4	3435.6	4070.7	6557.2	17439.6	31163.9	32261.0	27051.7	22259.2	17510.0
70°	2971.9	2995.3	3109.0	3608.8	5059.6	14606.7	30290.6	32212.3	27755.4	21851.4	16669.1
72.5°	2358.4	2356.6	2551.4	3002.6	3782.0	8338.2	24872.0	27966.6	26968.7	19953.2	13773.0
75°	1791.8	1820.6	2035.4	2540.6	3484.4	4556.1	17356.6	21537.4	21539.2	15759.7	8594.4
77.5°	1292.0	1310.0	1560.8	2132.8	3282.3	3693.6	11560.8	15447.6	14521.9	7221.2	2701.2
80°	846.3	857.1	1048.4	1688.9	2959.2	3484.4	6854.9	9455.1	6849.5	1916.3	893.2
82.5°	463.8	517.9	640.6	1093.5	2374.6	3219.1	4166.3	4785.3	2569.5	853.5	465.6
85°	232.8	247.2	360.9	638.8	1551.8	2663.3	2901.5	2744.5	1326.2	424.1	241.8
87.5°	68.6	86.6	149.8	247.2	629.8	1387.6	1614.9	1448.9	510.7	153.4	50.5
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°	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8	8940.8
2.5°	8866.8	8834.4	8690.0	8560.1	8441.1	8314.8	8208.3	8114.5	8123.5	8125.3	8029.6
5°	8664.8	8590.8	8316.6	8060.3	7843.8	7569.5	7334.9	7183.3	7107.6	7006.5	7042.6
7.5°	8390.5	8248.0	7867.2	7441.4	7042.6	6687.1	6301.0	6035.8	5866.2	5702.0	5723.6
10°	8107.2	7878.1	7324.1	6761.1	6245.1	5676.7	5184.1	4761.8	4447.8	4330.6	4253.0
12.5°	7816.7	7515.4	6811.6	6062.8	5350.1	4669.8	3971.5	3518.6	3172.2	2988.1	3011.6
15°	7551.5	7185.1	6277.5	5364.5	4438.8	3628.7	2932.2	2500.9	2259.1	2208.6	2237.5
17.5°	7306.0	6826.1	5777.7	4686.0	3605.2	2721.1	2203.2	1959.6	1862.1	1835.1	1833.3
20°	7053.4	6521.1	5216.6	3960.6	2809.5	2109.3	1808.0	1694.3	1676.3	1687.1	1688.9
22.5°	6797.2	6144.0	4639.1	3240.7	2237.5	1725.0	1580.6	1549.9	1564.4	1589.6	1593.3
25°	6560.8	5812.0	4083.3	2609.2	1786.3	1515.7	1445.3	1445.3	1477.8	1515.7	1517.5
27.5°	6365.9	5490.8	3529.5	2071.4	1495.8	1364.1	1340.7	1353.3	1398.4	1427.3	1429.1
30°	6205.4	5191.3	3006.2	1660.0	1315.4	1243.2	1237.8	1259.5	1292.0	1319.0	1320.8
32.5°	6084.5	4927.8	2517.2	1394.8	1190.9	1151.2	1149.4	1165.7	1183.7	1190.9	1198.1
35°	6037.6	4709.5	2069.6	1227.0	1107.9	1082.7	1082.7	1080.9	1088.1	1091.7	1095.3
37.5°	6075.5	4541.7	1723.2	1118.8	1046.6	1028.5	1017.7	1006.9	1003.3	1003.3	1005.1
40°	6236.0	4453.3	1465.1	1048.4	1003.3	976.2	956.4	943.7	931.1	934.7	938.3
42.5°	6577.0	4469.5	1290.1	1001.5	965.4	927.5	898.6	884.2	875.2	886.0	884.2
45°	7120.2	4631.9	1178.3	969.0	927.5	878.8	851.7	837.3	837.3	853.5	858.9
47.5°	7879.9	4942.3	1118.8	943.7	898.6	840.9	813.8	803.0	806.6	833.7	835.5
50°	8807.3	5481.8	1107.9	931.1	884.2	813.8	783.1	772.3	781.3	810.2	813.8
52.5°	9830.4	6176.5	1160.2	932.9	871.6	797.6	757.9	741.6	750.7	774.1	781.3
55°	11043.0	7046.2	1295.6	940.1	853.5	788.6	739.8	703.7	714.6	730.8	732.6
57.5°	12280.8	8143.3	1533.7	941.9	839.1	772.3	709.2	662.2	662.2	673.1	678.5
60°	13792.9	9337.8	1847.7	943.7	840.9	748.9	667.7	615.3	608.1	613.5	615.3
62.5°	15294.2	10337.5	1900.0	938.3	858.9	725.4	622.5	568.4	555.8	554.0	550.4
65°	15956.4	10151.6	1557.2	913.1	878.8	711.0	586.5	523.3	501.6	494.4	494.4
67.5°	14877.3	8587.2	1171.1	878.8	866.2	696.5	552.2	485.4	460.1	445.7	445.7
69°	13863.2	7638.1	1052.0	855.3	833.7	673.1	530.5	465.6	434.9	418.6	413.2
70°	13080.2	6984.8	1001.5	835.5	803.0	646.0	514.3	451.1	416.8	398.8	395.2
72.5°	10438.5	5480.0	877.0	759.7	683.9	543.1	456.5	406.0	373.5	353.7	348.3
75°	6015.9	2970.1	727.2	660.4	550.4	422.2	386.2	353.7	328.4	310.4	305.0
77.5°	1851.3	1147.6	526.9	521.5	404.2	326.6	308.6	295.9	277.9	258.0	254.4
80°	779.5	584.7	357.3	351.9	268.9	227.4	222.0	220.1	212.9	196.7	191.3
82.5°	427.7	330.2	249.0	216.5	162.4	131.7	137.1	138.9	133.5	117.3	106.5
85°	209.3	180.4	120.9	97.4	74.0	46.9	45.1	54.1	50.5	36.1	39.7
87.5°	41.5	50.5	32.5	14.4	7.2	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)