

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: P647686

Luminaire Tested: **GALN-SA9D-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42993 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

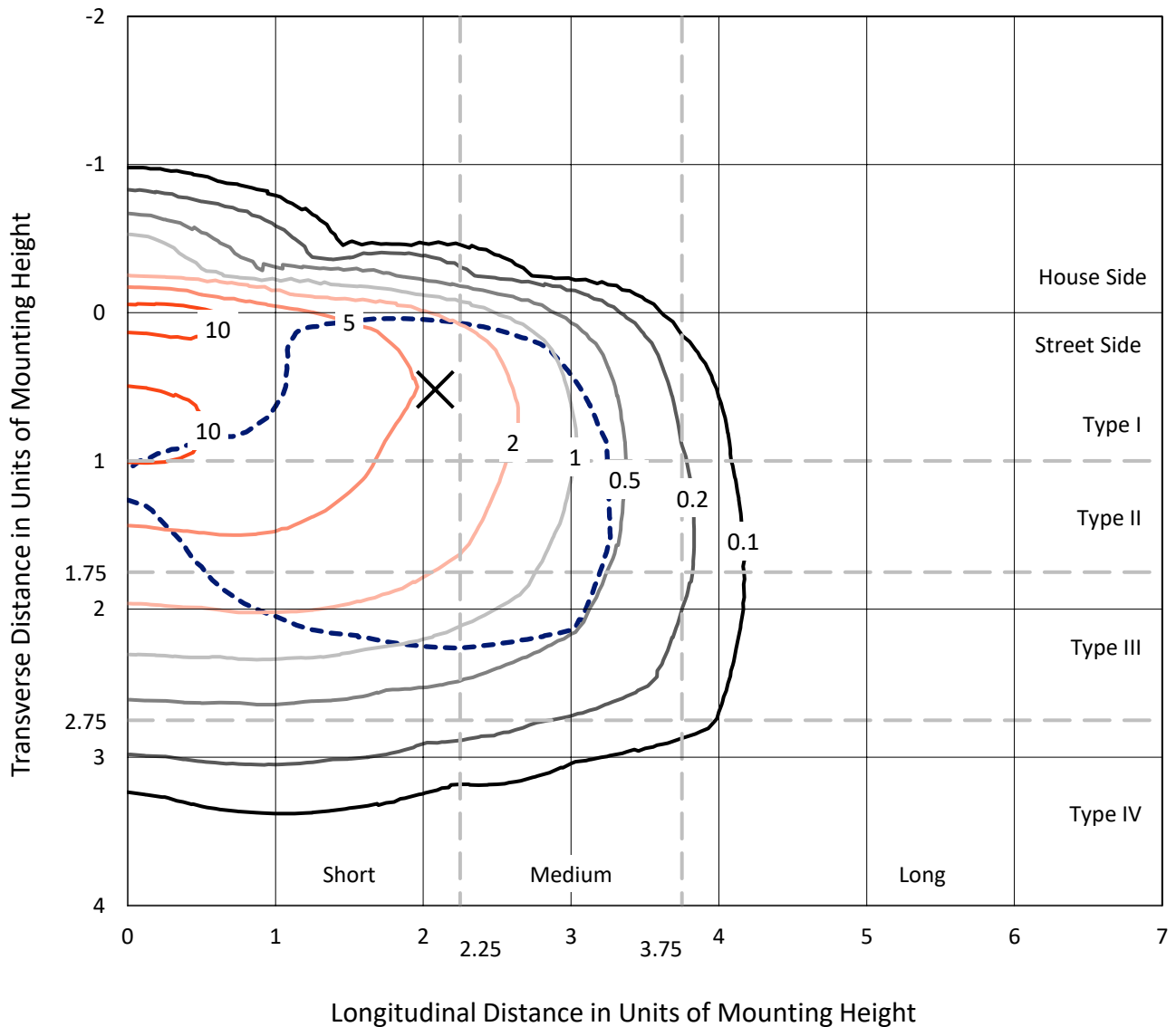
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

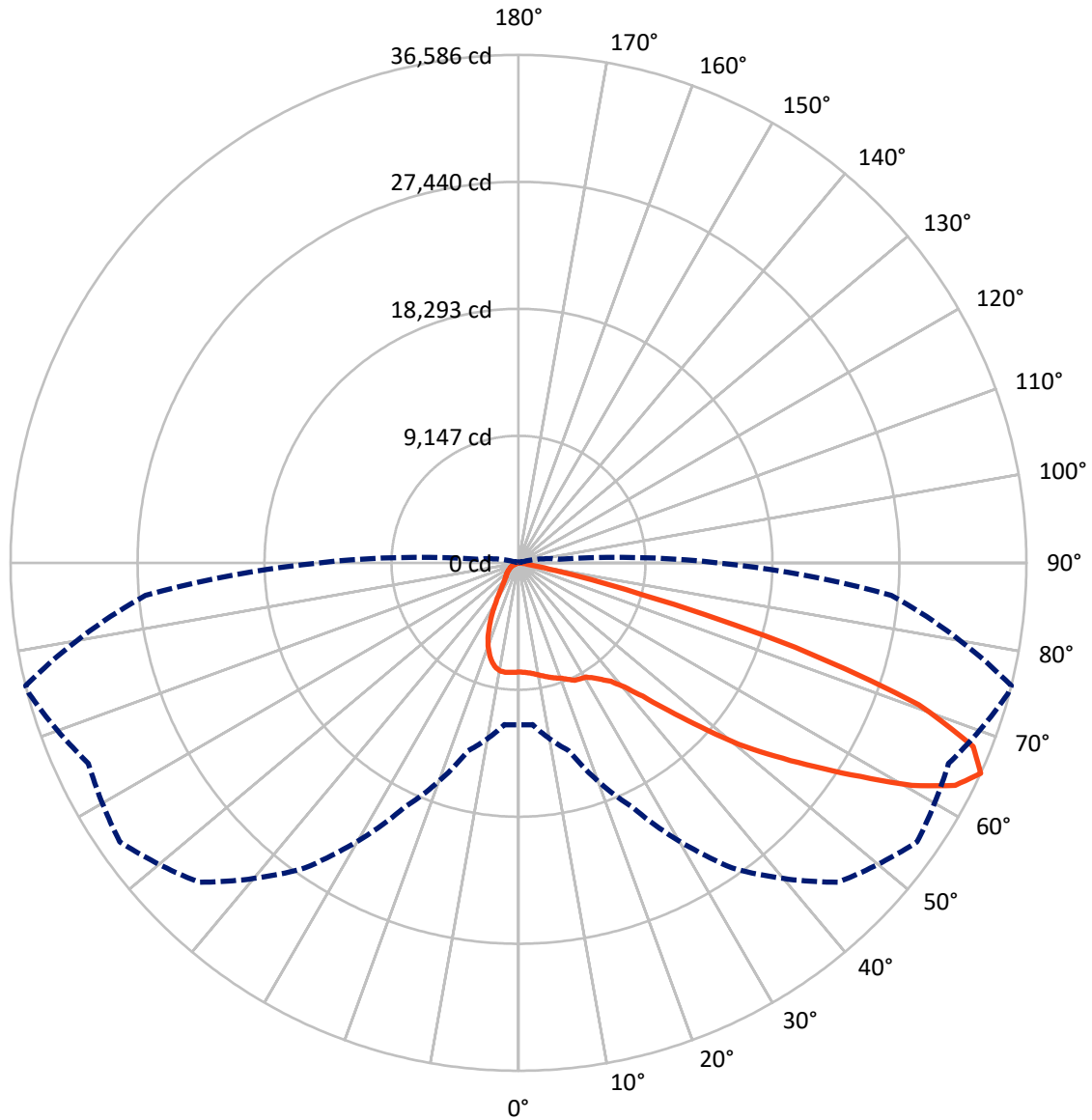
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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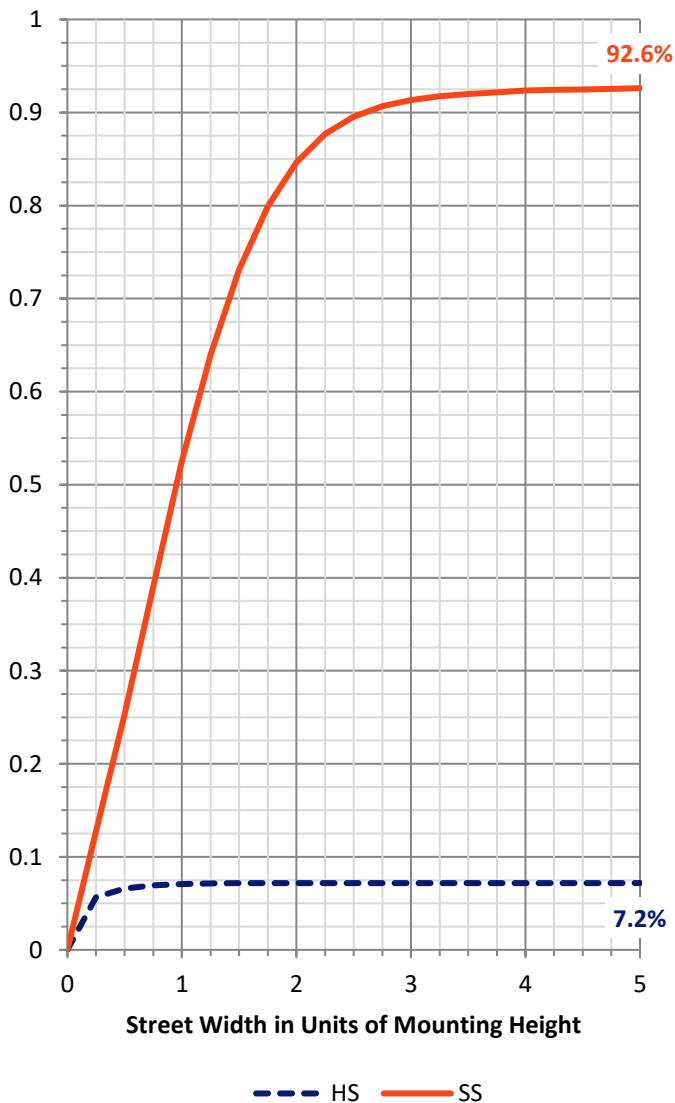
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3104.9	0.0	3104.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	39888.0	0.0	39888.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	42993.0	0.0	42993.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.9	1.5
10°-20°	1442.5	3.4
20°-30°	2324.5	5.4
30°-40°	4041.8	9.4
40°-50°	6678.8	15.5
50°-60°	10317.3	24.0
60°-70°	12598.9	29.3
70°-80°	4781.6	11.1
80°-90°	159.6	0.4
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°	42993.0	100.0
0°-180°	42993.0	100.0

Coefficient of Utilization



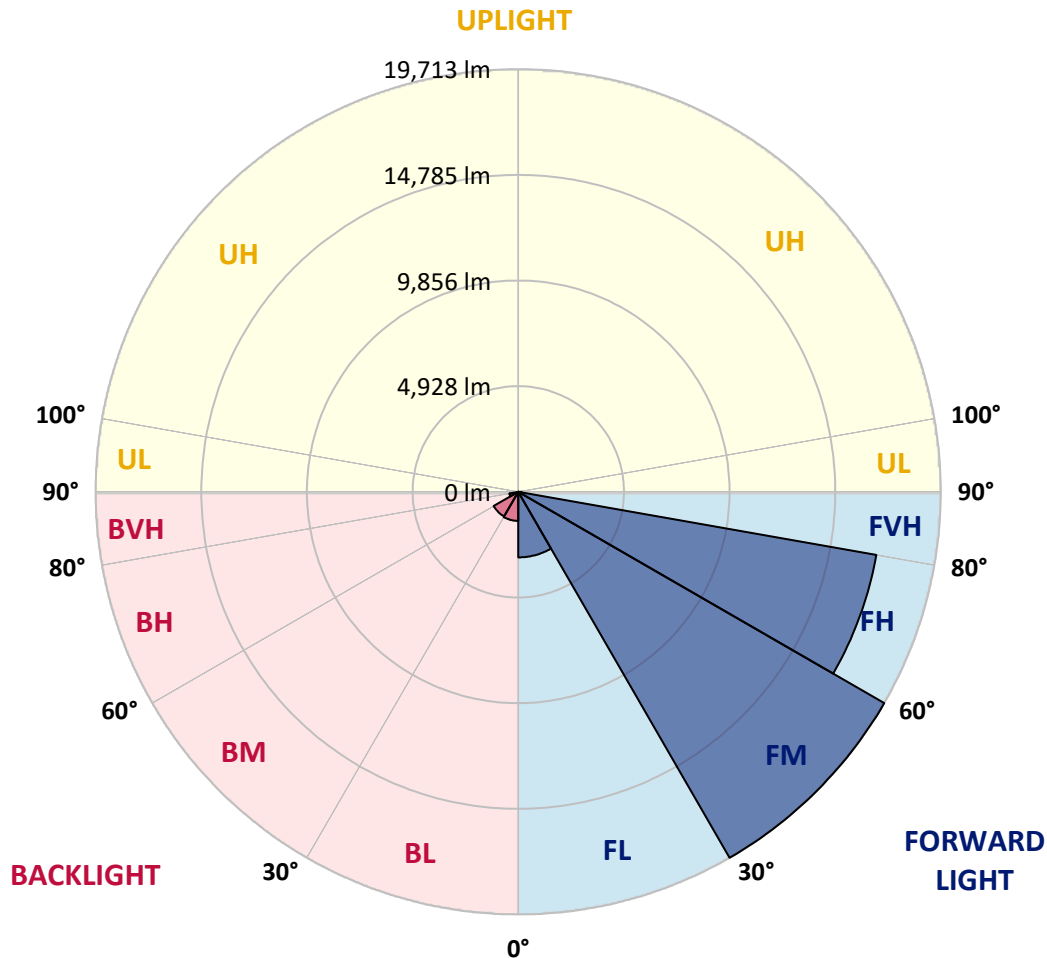
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3058.4	7.1			
FM (30°-60°)	19712.9	45.9			
FH (60°-80°)	16959.3	39.4			G5
FVH (80°-90°)	157.4	0.4			G2/225
BL (0°-30°)	1356.5	3.2	B3/2500		
BM (30°-60°)	1325.0	3.1	B2/2500		
BH (60°-80°)	421.3	1.0	B1/500		G1/500
BVH (80°-90°)	2.2	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8
2.5°	7515.7	7518.8	7536.9	7582.5	7652.3	7710.0	7758.5	7837.4	7892.1	7898.2	7916.4
5°	6996.7	6960.2	6996.7	7115.0	7221.3	7382.1	7579.4	7776.8	7952.8	7965.0	8049.9
7.5°	6413.9	6444.2	6501.9	6623.3	6823.6	7069.5	7354.8	7706.9	8040.9	8071.2	8238.2
10°	5821.9	5888.7	5982.8	6168.0	6447.2	6766.0	7154.5	7658.4	8180.5	8223.0	8511.4
12.5°	5275.5	5305.9	5421.3	5670.2	6016.2	6465.5	7002.8	7631.0	8335.3	8386.9	8802.7
15°	4856.7	4896.2	4996.3	5221.0	5606.4	6183.2	6878.3	7622.0	8487.0	8559.9	9094.2
17.5°	4777.8	4802.1	4844.5	4996.3	5333.2	5958.6	6766.0	7618.9	8632.7	8720.7	9364.3
20°	5102.6	5081.3	5038.8	5023.6	5208.8	5785.5	6684.0	7643.2	8772.3	8872.6	9649.6
22.5°	5916.0	5943.4	5694.4	5400.0	5339.3	5758.2	6671.9	7758.5	8993.9	9112.3	9968.4
25°	7643.2	7433.7	7045.2	6341.0	5809.8	5925.1	6808.4	8031.7	9252.0	9382.5	10256.7
27.5°	9552.4	9488.7	8884.7	7725.2	6735.6	6277.2	7051.3	8241.2	9337.0	9470.5	10420.6
30°	11428.4	11504.2	10812.2	9531.2	8080.3	6929.9	7278.9	8320.1	9412.8	9552.4	10630.1
32.5°	13167.7	13258.8	12651.6	11382.9	9664.8	8059.0	7670.5	8626.7	9731.6	9874.3	10979.1
35°	14536.6	14548.8	14090.5	13079.6	11395.0	9431.1	8517.4	9163.9	10162.6	10329.6	11349.4
37.5°	15793.3	15775.1	15237.8	14366.6	12836.8	10794.0	9582.8	9783.2	10654.4	10827.3	11883.7
40°	16725.2	16737.3	16564.3	15744.7	14181.5	12053.7	10426.7	10362.9	11480.0	11750.2	12660.7
42.5°	17347.4	17459.7	17544.8	17128.9	15872.3	13604.8	11722.8	11604.5	12912.7	13137.3	13759.6
45°	17851.3	18051.7	18476.6	18455.4	17496.2	15508.0	13501.6	13258.8	14943.4	15183.2	15158.9
47.5°	18218.6	18422.0	19126.2	19551.2	19023.0	17353.6	15738.7	15529.2	17368.7	17629.7	16704.0
50°	18406.8	18649.7	19548.1	20370.8	20216.0	19132.3	18288.5	18300.6	20297.9	20549.8	18494.9
52.5°	17966.6	18282.3	19772.8	21254.1	21554.6	20835.2	20677.3	21078.0	22905.3	23120.8	20112.7
55°	16561.3	16958.9	19466.2	22006.8	23105.6	22844.6	23391.0	24001.1	25755.6	25895.2	21773.1
57.5°	15671.9	16093.9	18561.6	22647.3	24969.4	25370.1	26235.2	26681.4	28696.9	29052.0	23679.3
60°	14922.2	15253.0	17817.9	22783.9	26863.5	28460.2	29301.0	29762.3	32327.3	32558.0	25776.8
62.5°	13674.6	14054.0	16561.3	21830.7	27816.6	30934.0	32676.3	32469.9	35135.0	35295.9	27063.8
65°	11668.2	11701.5	14011.6	19435.9	26833.2	32539.8	35047.0	34181.9	36476.7	36586.0	26963.7
67.5°	8708.6	9030.4	10778.8	15277.3	22665.5	31167.7	35815.0	34227.4	35629.8	35326.3	24823.7
70°	5609.5	5855.4	7306.3	10593.6	16342.7	26010.6	33268.3	31881.1	31270.9	30597.1	20319.2
72.5°	2589.2	2904.9	4340.6	6052.7	9692.1	18528.2	27006.1	25901.2	22507.6	20844.2	12915.7
75°	1129.2	1208.1	2143.0	3193.2	4544.1	9798.4	17805.8	16078.7	10165.6	9285.4	5169.4
77.5°	689.0	740.6	1123.1	1712.0	1784.8	3733.6	9591.9	7014.9	3141.6	2771.4	1402.4
80°	467.5	525.2	816.5	895.4	610.1	1041.2	3600.0	1872.9	634.4	607.1	300.5
82.5°	227.6	288.4	604.1	500.8	264.1	333.9	1047.2	400.7	185.2	173.0	106.3
85°	33.4	57.7	340.0	327.8	118.4	78.9	185.2	100.1	63.7	60.7	48.5
87.5°	0.0	0.0	115.3	51.6	12.1	12.1	21.2	21.2	24.3	21.2	24.3
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°	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8	7864.8
2.5°	7925.5	7940.6	7883.0	7801.0	7713.0	7625.0	7500.5	7388.2	7321.4	7360.9	7263.7
5°	8068.2	8056.1	7904.2	7655.3	7324.5	6926.8	6532.3	6195.3	6086.0	5922.1	5903.9
7.5°	8265.4	8232.1	7910.3	7339.7	6592.9	5846.2	5117.7	4635.1	4358.9	4125.2	4131.2
10°	8541.7	8444.6	7840.5	6784.1	5554.8	4428.6	3499.9	2862.4	2586.2	2498.2	2428.3
12.5°	8827.0	8638.8	7646.2	6034.4	4325.4	3026.3	2127.8	1739.3	1569.3	1514.7	1508.6
15°	9082.0	8784.6	7306.3	5132.9	3144.7	1933.5	1450.9	1323.4	1302.2	1305.3	1302.2
17.5°	9333.9	8899.9	6835.7	4176.8	2137.0	1387.2	1247.6	1217.2	1226.3	1238.5	1235.4
20°	9543.4	8924.2	6234.8	3187.2	1511.7	1217.2	1171.7	1165.6	1174.7	1183.8	1183.8
22.5°	9771.1	8942.3	5521.4	2206.7	1235.4	1132.2	1107.9	1107.9	1120.1	1132.2	1135.3
25°	9941.0	8842.2	4668.5	1584.5	1089.7	1050.2	1038.1	1041.2	1053.3	1059.4	1056.3
27.5°	9968.4	8559.9	3764.0	1214.2	989.6	950.1	938.0	950.1	934.9	944.0	938.0
30°	9992.6	8201.7	2847.2	1022.9	898.5	837.8	819.6	801.3	789.2	774.0	771.0
32.5°	10068.5	7779.8	2079.3	919.7	813.5	746.7	704.2	652.6	613.2	601.0	598.0
35°	10101.9	7272.9	1526.9	837.8	737.6	664.8	588.9	516.0	458.4	437.1	452.3
37.5°	10229.3	6781.2	1183.8	777.0	670.8	579.7	482.6	391.6	336.9	324.8	330.9
40°	10490.4	6246.9	992.6	725.4	613.2	500.8	382.5	294.4	258.0	245.9	242.8
42.5°	10909.3	5715.7	883.3	676.9	555.5	422.0	300.5	230.7	200.4	191.2	191.2
45°	11419.3	5205.8	807.4	625.3	494.8	340.0	236.8	185.2	166.9	160.9	160.9
47.5°	12090.1	4759.5	743.7	573.7	428.0	270.1	191.2	160.9	148.8	151.7	154.8
50°	12770.0	4428.6	673.8	516.0	352.1	221.6	163.9	142.7	139.6	142.7	142.7
52.5°	13283.0	4234.4	579.7	437.1	276.2	185.2	145.7	133.6	130.5	124.4	124.4
55°	13975.1	4191.9	461.4	355.2	218.5	154.8	130.5	121.4	112.3	106.3	103.2
57.5°	14864.5	4240.5	355.2	276.2	170.0	127.5	115.3	100.1	88.0	75.9	75.9
60°	15417.0	4131.2	276.2	212.5	124.4	103.2	88.0	72.8	57.7	48.5	45.5
62.5°	15240.9	3669.8	218.5	157.9	88.0	75.9	57.7	48.5	33.4	24.3	21.2
65°	14333.3	2962.6	176.0	109.3	63.7	45.5	30.4	30.4	15.2	3.1	0.0
67.5°	12545.4	2194.6	139.6	72.8	36.4	21.2	15.2	9.1	0.0	0.0	0.0
70°	10211.2	1584.5	109.3	45.5	21.2	15.2	6.1	3.1	0.0	0.0	0.0
72.5°	6483.6	907.6	85.0	27.3	15.2	6.1	0.0	0.0	0.0	0.0	0.0
75°	2507.2	355.2	57.7	18.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	710.3	166.9	33.4	9.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	185.2	72.8	18.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	88.0	30.4	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.6	12.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.3	3.1	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)