

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: P647647

Luminaire Tested: **GALN-SA9D-835-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-835-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40963.5 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

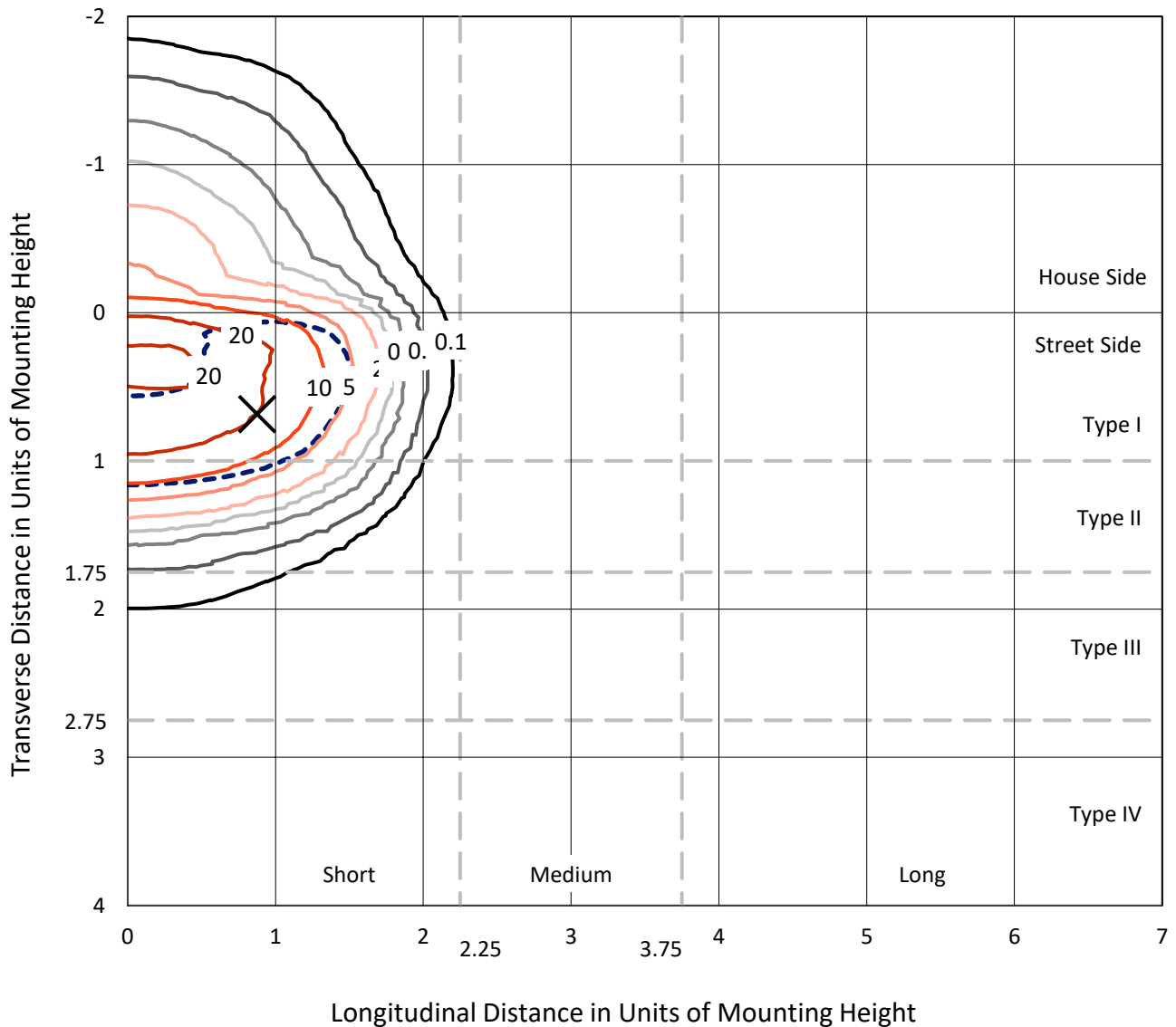
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

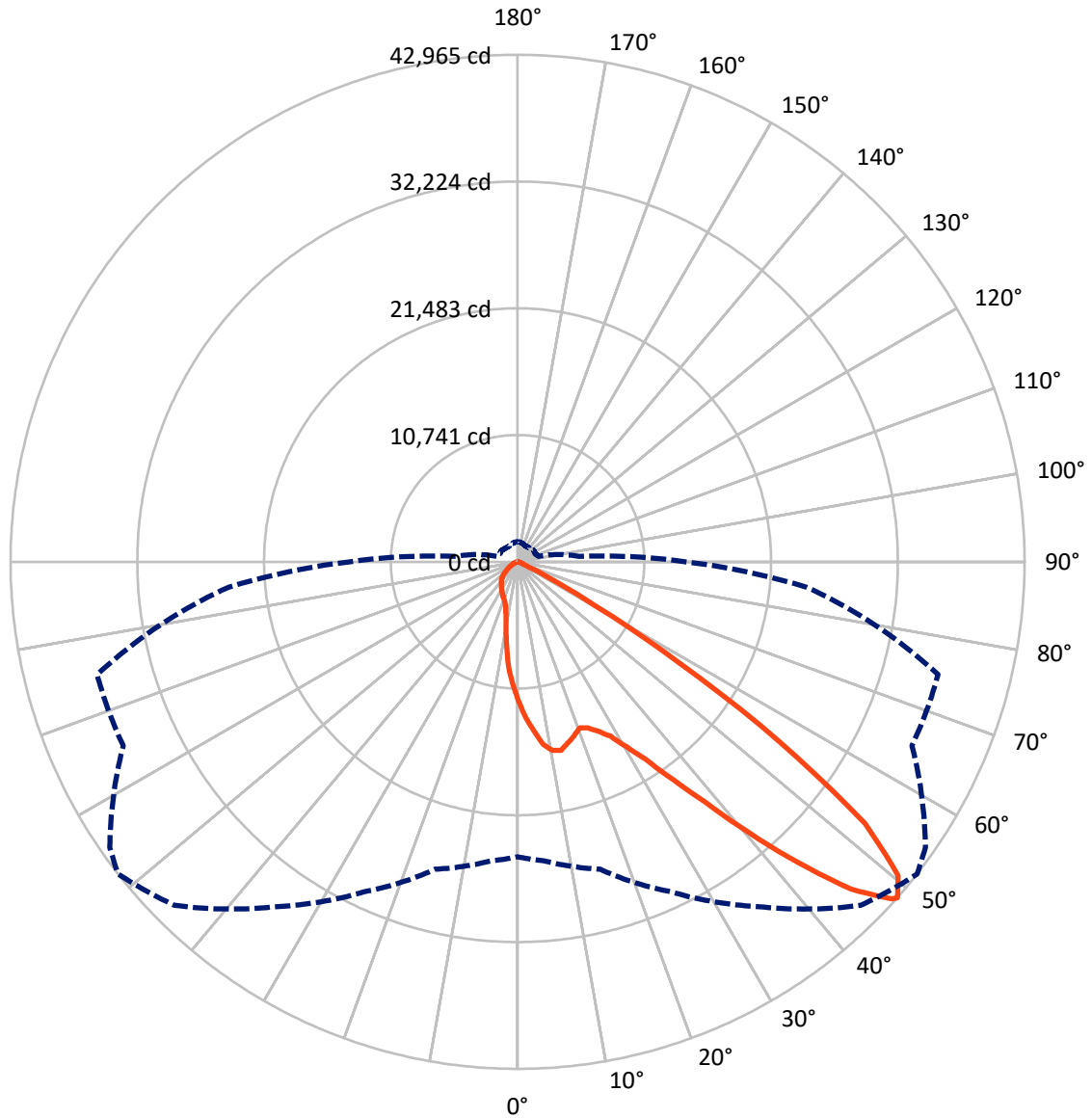
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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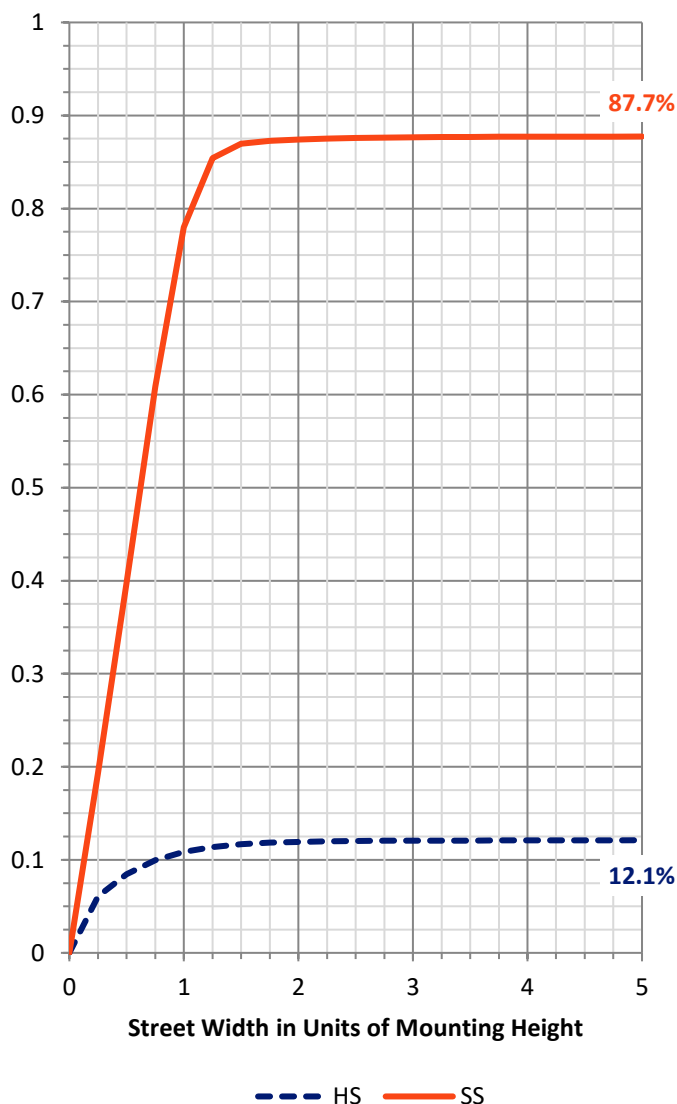
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4987.6	0.0	4987.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	35975.8	0.0	35975.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	40963.5	0.0	40963.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1082.7	2.6
10°-20°	2829.6	6.9
20°-30°	4831.3	11.8
30°-40°	8896.8	21.7
40°-50°	13816.7	33.7
50°-60°	8315.3	20.3
60°-70°	961.8	2.3
70°-80°	186.2	0.5
80°-90°	43.1	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°	40963.5	100.0
0°-180°	40963.5	100.0

Coefficient of Utilization



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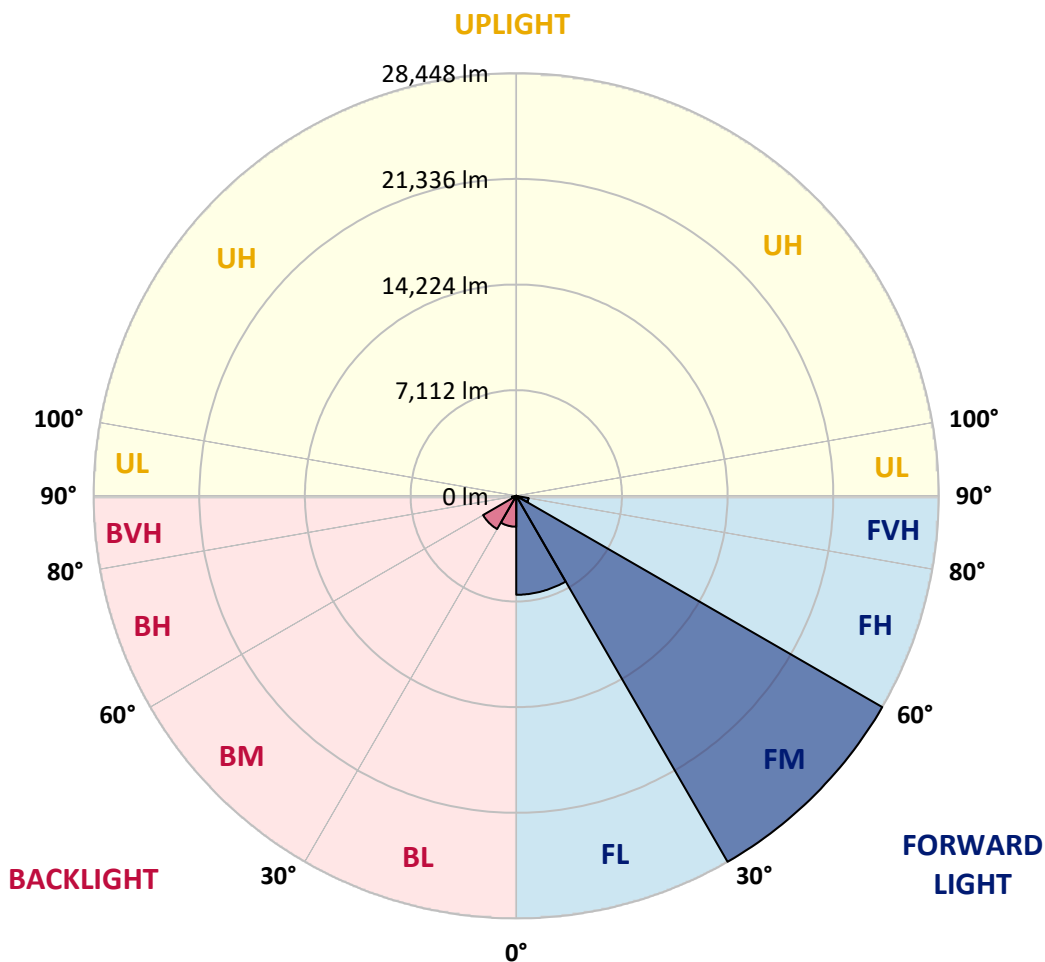
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6660.1	16.3			
FM (30°-60°)	28448.3	69.4			
FH (60°-80°)	846.9	2.1			G1/1800
FVH (80°-90°)	20.5	0.1			G1/100
BL (0°-30°)	2083.5	5.1	B3/2500		
BM (30°-60°)	2580.5	6.3	B3/5000		
BH (60°-80°)	301.0	0.7	B1/500		G1/500
BVH (80°-90°)	22.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6
2.5°	14337.6	14009.1	14039.0	13824.0	13698.7	13495.6	13221.0	13167.2	12868.6	12462.5	12050.5
5°	15627.4	15549.8	15651.3	15340.8	15352.8	15018.3	14373.5	14385.4	13698.7	13035.8	12396.8
7.5°	15711.1	15531.9	15633.4	15908.1	16069.4	16009.6	15645.4	15328.9	14678.0	13704.6	12773.1
10°	14068.9	14409.2	14516.7	14970.6	15615.5	16296.3	16254.5	16272.4	15729.0	14457.0	13095.5
12.5°	13083.5	12856.6	13221.0	13495.6	14469.0	15788.6	16391.8	16523.2	16565.0	15185.6	13418.0
15°	12635.7	12635.7	12695.4	12773.1	13477.7	14695.9	15926.0	16308.2	17209.9	16141.0	13925.6
17.5°	12916.4	12904.5	12988.0	12826.8	13089.6	14027.1	15496.0	15932.0	17932.4	17078.5	14325.6
20°	13770.3	13812.1	13758.3	13292.6	13310.5	14015.2	15018.3	15705.1	18422.1	17890.6	14857.1
22.5°	14958.7	14982.5	14678.0	14170.4	14021.1	14367.4	15293.0	15818.6	18816.2	18864.0	15018.3
25°	16332.0	16236.5	16176.8	15460.3	15006.4	15305.0	15914.1	16218.6	19061.0	19700.0	15478.2
27.5°	18237.0	18045.9	17681.6	17042.7	16708.3	16284.3	16720.3	17221.9	19759.7	20870.4	15979.8
30°	21049.5	20882.4	20171.7	19347.7	18469.9	18051.8	18189.2	18463.9	21019.7	22225.9	16642.6
32.5°	25283.4	24931.0	23904.0	22333.4	21139.1	19986.6	19950.8	20243.4	22148.3	24101.0	17430.8
35°	29947.1	29839.7	28328.9	26710.6	24399.6	22620.1	22649.9	22805.2	24310.0	26561.2	18463.9
37.5°	33046.4	33637.5	32676.1	30938.4	28997.6	26453.8	25808.9	25862.6	27277.8	29475.3	20327.0
40°	35440.9	34939.3	35052.7	34646.7	33321.0	31589.3	30162.1	29881.4	30711.5	32700.0	22178.2
42.5°	34395.9	34419.7	35118.4	36079.9	36408.2	36282.9	34825.8	34294.4	33649.4	35339.4	23939.8
45°	31446.0	32061.0	32968.7	35512.6	37745.9	39841.9	39555.3	38671.5	35679.7	37429.4	24954.9
47.5°	26740.4	26716.5	28203.4	31511.7	36473.9	41382.6	42684.3	42063.3	37118.9	37196.5	24745.9
48°	25002.7	25432.6	26967.3	30860.8	35667.8	41155.7	42965.0	42182.7	36874.1	36886.0	24566.8
50°	18481.9	18404.2	20315.1	25092.3	31858.0	38671.5	41782.7	42391.7	36868.1	35315.5	23312.7
52.5°	9763.4	10097.8	11489.2	15776.7	22524.6	31649.0	36856.1	37805.6	35566.3	32747.7	21509.4
55°	4150.2	3750.1	4819.0	7124.0	12671.5	21145.1	27039.0	29152.9	30072.5	28979.7	18816.2
57.5°	1481.0	1618.3	1863.1	2681.2	5326.6	11572.8	16123.1	17765.3	20834.6	21264.6	12820.8
60°	949.5	967.4	1045.0	1230.1	2000.5	4460.8	7649.5	8957.3	10348.6	10683.0	5983.5
62.5°	734.5	740.5	776.3	806.2	949.5	1731.8	2872.3	3403.8	3535.2	3039.5	1570.5
65°	615.0	621.1	633.0	633.0	674.8	812.1	1003.2	1104.7	1074.9	1062.9	889.7
67.5°	471.8	483.7	507.5	507.5	531.5	495.6	555.4	591.2	668.8	812.1	758.4
70°	370.2	376.2	394.1	406.1	406.1	358.3	400.1	435.9	489.7	603.1	597.1
72.5°	286.7	298.6	310.5	310.5	292.6	244.8	286.7	316.5	352.4	418.0	406.1
75°	221.0	221.0	226.9	185.1	143.3	125.4	173.2	209.0	262.8	274.7	226.9
77.5°	59.7	65.7	59.7	53.7	59.7	89.6	113.5	131.4	167.2	167.2	149.3
80°	0.0	6.0	17.9	35.9	59.7	83.6	101.5	113.5	131.4	143.3	137.3
82.5°	0.0	6.0	17.9	35.9	53.7	65.7	89.6	95.5	107.5	125.4	125.4
85°	0.0	6.0	12.0	23.9	35.9	41.8	41.8	35.9	35.9	29.8	23.9
87.5°	0.0	0.0	6.0	12.0	12.0	17.9	17.9	17.9	17.9	17.9	17.9
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°	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6	11829.6
2.5°	11889.3	11704.1	11423.5	10981.6	10557.7	10282.9	10020.2	9727.6	9566.4	9554.4	9464.8
5°	12032.6	11614.6	10945.8	10187.4	9375.3	8676.6	7972.0	7512.2	7100.1	6873.2	6831.4
7.5°	12110.2	11566.8	10485.9	9214.0	7828.7	6688.1	5899.8	5320.6	5093.7	4926.5	4920.5
10°	12271.4	11483.2	9799.2	7924.2	6210.4	5057.9	4514.5	4251.7	4126.3	4078.6	4006.8
12.5°	12390.9	11328.0	9094.6	6598.5	4908.5	4192.0	3953.1	3893.4	3899.4	3923.3	3893.4
15°	12558.1	11190.6	8145.2	5416.2	4120.3	3774.0	3774.0	3786.0	3869.5	3881.5	3875.5
17.5°	12546.2	10921.9	7165.8	4460.8	3642.6	3594.8	3612.8	3726.2	3779.9	3797.9	3756.1
20°	12689.5	10671.1	6156.7	3809.8	3373.9	3445.6	3565.0	3594.8	3660.5	3672.5	3624.7
22.5°	12647.6	10044.1	5219.1	3296.3	3170.8	3308.3	3427.7	3463.4	3445.6	3409.7	3403.8
25°	12570.0	9506.6	4359.2	2955.9	3021.6	3170.8	3284.3	3218.7	3182.8	3188.8	3194.7
27.5°	12432.7	8825.9	3648.6	2717.0	2818.6	3039.5	3033.5	3009.6	3045.5	3015.6	3045.5
30°	12408.8	8145.2	3063.4	2502.1	2669.2	2830.5	2842.4	2884.3	2926.1	2872.3	2926.1
32.5°	12444.6	7398.7	2645.4	2370.7	2579.7	2585.7	2717.0	2758.8	2729.0	2609.6	2621.5
35°	12719.3	6825.4	2340.9	2299.0	2436.4	2442.3	2567.8	2514.0	2382.7	2310.9	2352.8
37.5°	13298.6	6347.7	2197.5	2233.4	2245.3	2322.9	2328.9	2221.4	2233.4	2227.4	2251.3
40°	14039.0	5983.5	2096.0	2173.6	2161.7	2215.4	2000.5	2060.2	2113.9	2131.8	2143.8
42.5°	14546.6	5720.7	2030.3	2078.1	2054.2	1958.7	1839.2	1898.9	1940.7	2006.4	2018.3
45°	14773.5	5511.7	1952.6	1910.9	1910.9	1737.7	1689.9	1701.9	1797.5	1869.1	1857.1
47.5°	14403.3	5308.7	1815.3	1689.9	1731.8	1588.4	1534.7	1534.7	1636.2	1725.7	1707.9
48°	14260.0	5225.0	1821.3	1642.2	1672.0	1564.5	1510.8	1498.8	1612.3	1695.9	1695.9
50°	13549.3	4914.6	1666.1	1510.8	1451.1	1439.2	1403.3	1415.3	1486.9	1564.5	1564.5
52.5°	12164.0	4245.7	1409.2	1295.8	1188.4	1260.0	1277.9	1254.1	1289.8	1361.5	1355.5
55°	10151.6	3260.4	1128.6	1074.9	991.3	1068.9	1104.7	1074.9	1039.0	1092.8	1092.8
57.5°	6503.0	1755.6	901.7	913.6	830.1	907.7	937.6	865.8	800.1	842.0	836.0
60°	2932.0	1051.0	740.5	722.6	668.8	758.4	806.2	722.6	633.0	662.8	692.7
62.5°	1098.8	746.4	561.3	549.4	537.5	621.1	645.0	579.3	489.7	507.5	513.6
65°	806.2	656.9	447.9	406.1	429.9	489.7	477.7	412.0	352.4	352.4	364.3
67.5°	686.7	573.2	364.3	316.5	316.5	322.4	298.6	262.8	244.8	256.7	268.7
70°	537.5	453.8	286.7	244.8	221.0	197.1	173.2	167.2	149.3	167.2	161.2
72.5°	346.3	304.5	221.0	185.1	167.2	137.3	113.5	107.5	89.6	83.6	83.6
75°	185.1	185.1	173.2	149.3	131.4	107.5	89.6	71.6	47.8	35.9	35.9
77.5°	131.4	143.3	155.3	143.3	119.4	89.6	71.6	47.8	23.9	12.0	12.0
80°	125.4	143.3	155.3	137.3	119.4	89.6	65.7	35.9	17.9	6.0	6.0
82.5°	113.5	131.4	143.3	125.4	107.5	77.6	59.7	35.9	17.9	6.0	6.0
85°	23.9	29.8	35.9	35.9	41.8	53.7	41.8	29.8	12.0	6.0	6.0
87.5°	17.9	17.9	17.9	17.9	17.9	17.9	12.0	12.0	6.0	6.0	6.0
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)