

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: P459365

Luminaire Tested: **GALN-SA8B-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459365
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41897 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

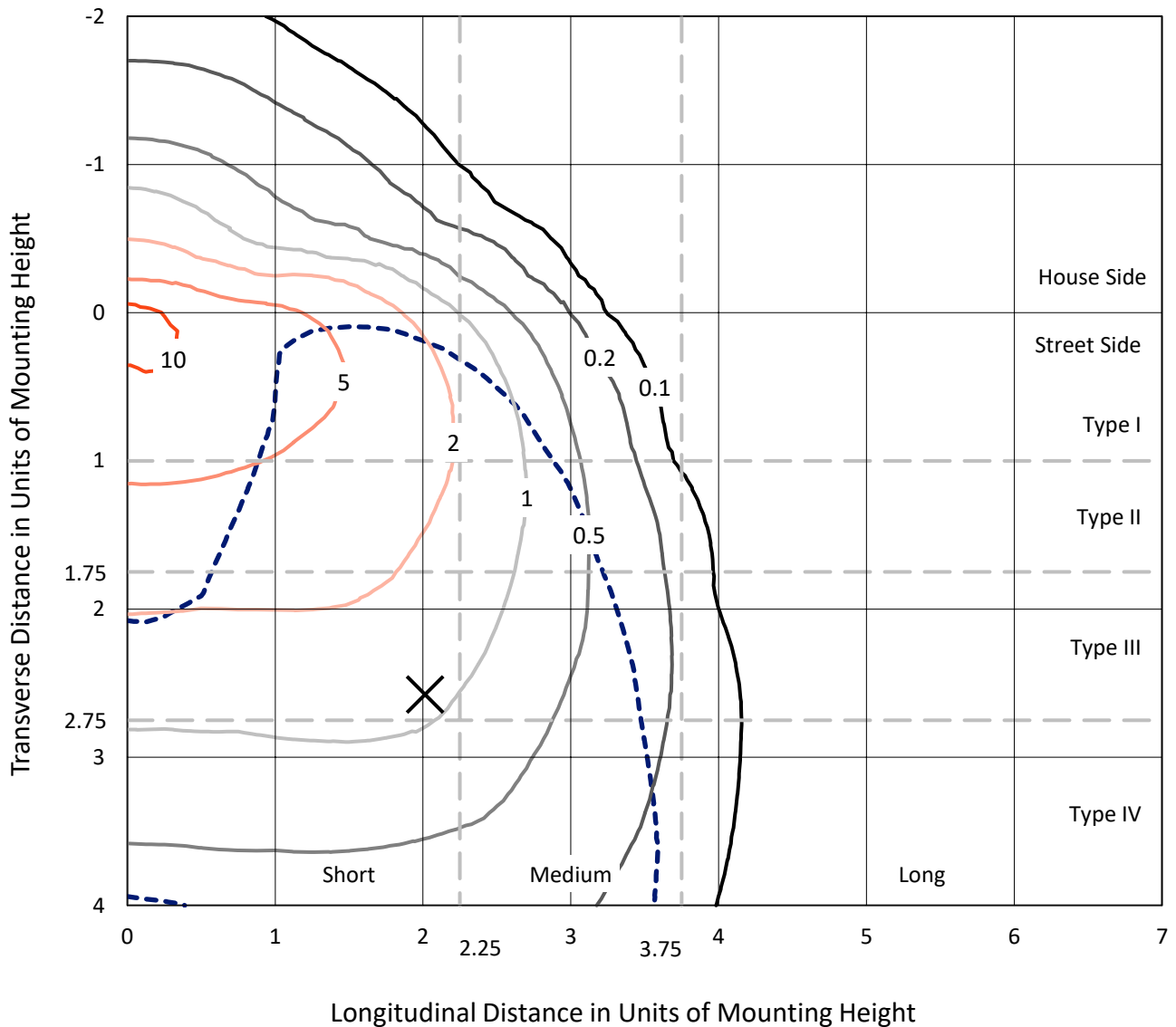
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

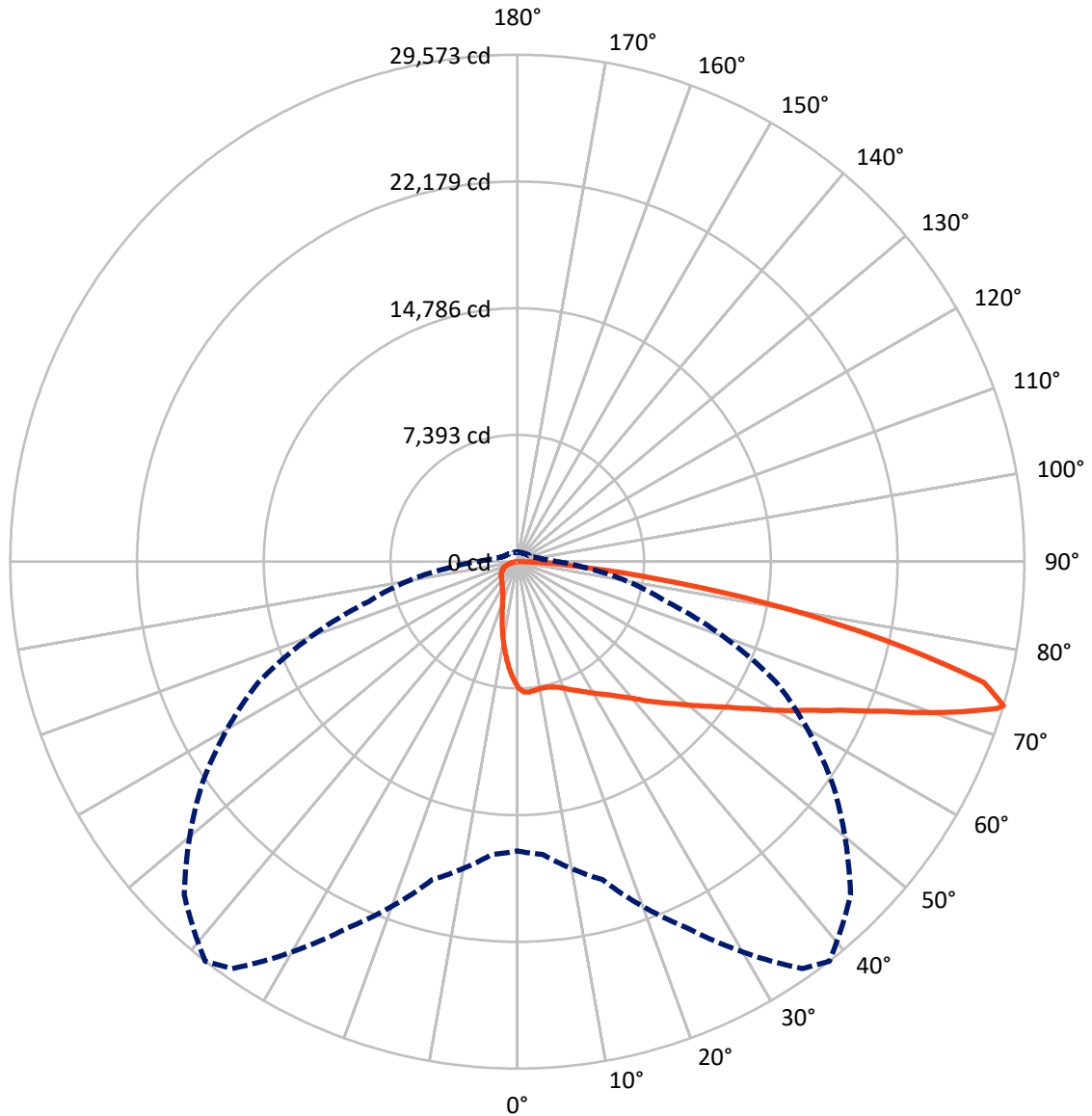
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5632.2	0.0	5632.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	36264.8	0.0	36264.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	41897.0	0.0	41897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	642.5	1.5
10°-20°	1647.6	3.9
20°-30°	2565.6	6.1
30°-40°	3763.1	9.0
40°-50°	5582.2	13.3
50°-60°	7908.9	18.9
60°-70°	10032.6	23.9
70°-80°	8351.4	19.9
80°-90°	1403.2	3.3
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°	41897.0	100.0
0°-180°	41897.0	100.0

Coefficient of Utilization



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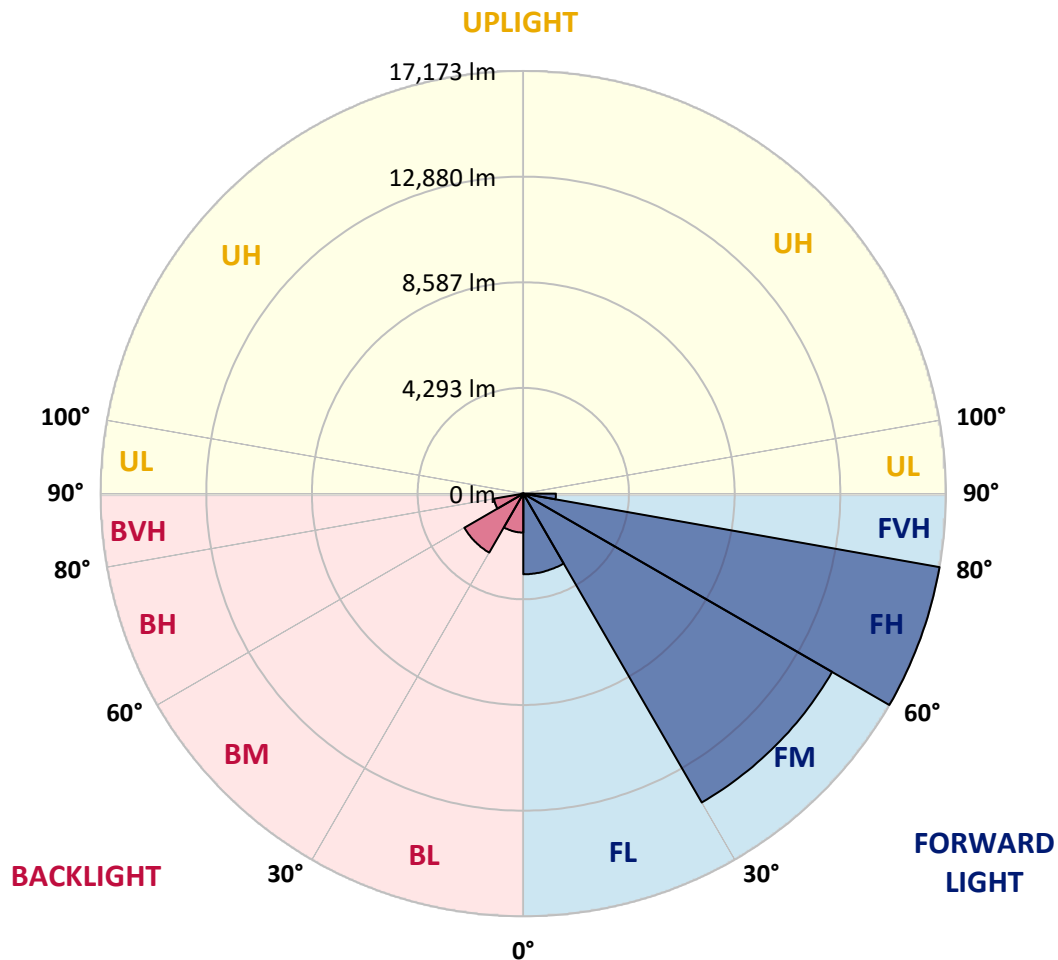
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3275.2	7.8			
FM (30°-60°)	14489.1	34.6			
FH (60°-80°)	17173.4	41.0			G5
FVH (80°-90°)	1327.1	3.2			G5
BL (0°-30°)	1580.5	3.8	B3/2500		
BM (30°-60°)	2765.1	6.6	B3/5000		
BH (60°-80°)	1210.6	2.9	B3/2500		G3/2500
BVH (80°-90°)	76.1	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6
2.5°	7656.3	7694.2	7675.3	7649.2	7632.7	7616.1	7592.5	7523.8	7469.4	7410.3	7318.0
5°	7713.1	7736.8	7720.2	7687.1	7649.2	7632.7	7587.7	7497.8	7410.3	7310.9	7173.7
7.5°	7680.0	7689.5	7670.5	7630.3	7597.2	7566.4	7514.4	7415.0	7308.5	7187.9	7008.1
10°	7561.7	7597.2	7597.2	7564.1	7530.9	7514.4	7462.3	7367.7	7270.7	7133.5	6920.5
12.5°	7464.7	7502.6	7533.3	7523.8	7521.5	7521.5	7481.3	7410.3	7296.7	7166.6	6913.4
15°	7398.4	7443.4	7509.7	7547.5	7571.2	7578.3	7561.7	7500.2	7384.3	7232.8	6941.8
17.5°	7384.3	7438.7	7559.3	7642.1	7703.7	7701.3	7696.6	7611.4	7483.6	7327.5	6977.3
20°	7448.1	7519.1	7687.1	7817.2	7907.1	7890.6	7864.5	7753.3	7604.3	7429.2	7010.4
22.5°	7639.8	7713.1	7897.7	8039.6	8127.2	8127.2	8049.1	7902.4	7743.9	7547.5	7055.4
25°	7914.2	7994.7	8191.1	8335.4	8375.6	8344.8	8266.8	8089.3	7907.1	7717.9	7150.0
27.5°	8250.2	8347.2	8529.4	8650.1	8638.2	8614.6	8534.1	8307.0	8124.8	7952.1	7310.9
30°	8669.0	8740.0	8929.2	8957.6	8915.0	8910.3	8796.7	8569.6	8399.3	8266.8	7540.4
32.5°	9064.1	9128.0	9279.4	9291.2	9215.5	9225.0	9118.5	8910.3	8813.3	8766.0	7926.1
35°	9482.9	9516.0	9646.1	9631.9	9582.3	9575.2	9532.6	9333.8	9364.6	9449.8	8472.6
37.5°	9833.1	9899.3	9972.6	9984.5	9982.1	10005.8	10034.2	9939.5	10117.0	10384.3	9189.5
40°	10154.8	10211.6	10320.4	10358.3	10450.6	10497.9	10594.9	10597.3	11006.6	11446.7	10072.0
42.5°	10372.5	10469.5	10673.0	10741.6	10966.4	11108.3	11252.6	11406.4	12000.3	12565.8	11113.1
45°	10561.8	10689.5	11027.9	11240.8	11546.0	11718.7	12024.0	12345.7	13199.9	13940.4	12170.6
47.5°	10848.1	10961.6	11349.7	11725.8	12187.2	12386.0	12842.6	13322.9	14439.6	15251.2	13183.3
50°	11245.5	11314.2	11709.3	12322.1	12911.2	13166.7	13770.1	14463.3	15764.6	16545.4	14072.9
52.5°	11754.2	11782.6	12097.3	12913.6	13689.6	14006.7	14806.4	15615.5	16923.9	17669.2	14778.0
55°	12355.2	12307.9	12553.9	13540.6	14579.2	14993.3	15852.1	16782.0	18227.6	18577.7	15291.4
57.5°	12949.1	12875.7	13072.1	14302.4	15677.0	16176.3	17177.1	17983.9	19391.6	19427.1	15651.0
60°	13578.4	13524.0	13758.2	15196.7	17023.3	17614.8	18539.9	19230.8	20517.9	20018.6	15707.8
62.5°	14224.3	14136.8	14470.4	16202.3	18539.9	19077.0	19973.7	20555.7	21622.8	20238.7	15161.3
65°	14851.3	14811.1	15326.9	17397.1	20267.1	20877.5	21748.2	22143.3	22507.7	19907.4	13805.5
67.5°	15518.5	15599.0	16422.3	18991.8	22519.5	23286.1	24225.4	23853.9	22760.8	18338.8	11626.5
70°	16535.9	16588.0	17860.9	21081.0	25422.6	26347.7	26801.9	24462.0	21540.0	15360.0	8740.0
72.5°	16973.6	17203.1	19145.6	23274.2	28720.7	29286.2	27667.9	23106.3	17943.7	10434.0	4592.4
73°	16876.6	17151.1	19204.7	23607.8	28978.6	29572.5	27483.3	22408.3	16680.2	8986.0	3937.0
75°	15667.6	16005.9	18435.8	23328.7	28477.0	28122.1	24516.4	19098.3	11271.6	4086.1	1793.4
77.5°	12362.3	12459.3	14607.6	18838.0	22424.8	21767.1	18348.2	11936.4	4604.2	1519.0	1017.4
80°	6201.3	6558.5	8233.6	10791.3	14995.6	14780.3	11581.5	5645.3	1918.8	892.0	674.3
82.5°	2983.5	3236.7	4010.4	5262.0	8285.7	8089.3	5735.2	3085.3	1218.5	520.5	397.5
85°	1921.2	2110.5	2552.9	2510.3	3407.0	3253.2	2576.6	2335.2	721.6	272.1	276.8
87.5°	1268.2	1388.8	1665.7	1332.1	1239.8	1121.5	1138.0	1315.5	142.0	104.1	37.9
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°	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6	7360.6
2.5°	7280.1	7249.4	7147.7	7048.3	6953.6	6863.7	6804.6	6726.5	6674.5	6688.7	6709.9
5°	7098.0	7029.4	6849.5	6674.5	6508.8	6312.5	6153.9	6026.2	5929.2	5893.7	5886.6
7.5°	6906.3	6790.4	6532.5	6232.0	5950.5	5706.8	5425.2	5285.6	5122.4	5065.6	5046.7
10°	6790.4	6634.2	6272.2	5853.5	5429.9	5025.4	4720.1	4471.7	4247.0	4204.4	4183.1
12.5°	6757.3	6551.4	6064.0	5524.6	4961.5	4464.6	4012.7	3686.2	3468.5	3418.9	3345.5
15°	6738.3	6482.8	5870.0	5193.3	4478.8	3873.1	3397.6	3016.6	2817.9	2685.4	2687.8
17.5°	6721.8	6404.7	5652.3	4831.4	4062.4	3364.4	2839.2	2496.1	2313.9	2243.0	2235.9
20°	6698.1	6312.5	5401.6	4450.4	3586.8	2900.7	2425.1	2169.6	2046.6	1987.4	1985.1
22.5°	6688.7	6222.6	5155.5	4062.4	3165.7	2543.4	2150.7	1970.9	1892.8	1852.6	1852.6
25°	6712.3	6158.7	4897.6	3693.3	2791.9	2238.2	1961.4	1838.4	1793.4	1772.1	1765.0
27.5°	6785.7	6130.3	4642.1	3324.2	2448.8	2030.0	1833.6	1748.5	1715.3	1698.8	1701.1
30°	6925.3	6127.9	4391.3	2959.9	2193.3	1871.5	1731.9	1672.8	1646.7	1637.3	1634.9
32.5°	7150.0	6180.0	4145.2	2659.4	1978.0	1739.0	1637.3	1594.7	1582.8	1575.7	1573.4
35°	7530.9	6326.7	3901.5	2384.9	1812.3	1620.7	1547.4	1526.1	1509.5	1516.6	1519.0
37.5°	8044.4	6579.8	3669.6	2169.6	1687.0	1533.2	1471.6	1452.7	1443.3	1450.4	1457.4
40°	8732.9	6944.2	3475.6	1996.9	1597.0	1459.8	1405.4	1388.8	1379.4	1391.2	1393.6
42.5°	9492.3	7365.3	3314.8	1862.0	1523.7	1398.3	1346.2	1327.3	1320.2	1327.3	1329.7
45°	10273.1	7855.1	3231.9	1765.0	1462.2	1353.3	1298.9	1277.6	1261.1	1256.3	1263.4
47.5°	11042.1	8281.0	3229.6	1705.9	1412.5	1313.1	1254.0	1230.3	1209.0	1197.2	1194.8
50°	11669.1	8619.3	3286.4	1679.9	1369.9	1268.2	1209.0	1185.4	1157.0	1133.3	1138.0
52.5°	12142.3	8839.3	3312.4	1668.0	1346.2	1220.9	1161.7	1140.4	1107.3	1076.5	1076.5
55°	12447.5	8891.4	3248.5	1656.2	1327.3	1171.2	1107.3	1088.4	1055.2	1024.5	1024.5
57.5°	12551.6	8730.5	3019.0	1627.8	1308.4	1128.6	1052.9	1036.3	1010.3	979.5	974.8
60°	12310.2	8186.3	2616.8	1542.6	1270.5	1083.6	993.7	986.6	977.2	951.1	948.8
62.5°	11380.4	7031.7	2179.1	1431.4	1206.7	1036.3	939.3	951.1	958.2	944.0	941.7
65°	9833.1	5709.1	1862.0	1277.6	1121.5	970.1	880.1	910.9	929.8	929.8	925.1
67.5°	7975.8	4384.2	1568.7	1145.1	1015.0	880.1	813.9	837.6	851.8	847.0	858.9
70°	5668.9	2969.3	1277.6	993.7	880.1	778.4	728.7	728.7	719.3	714.5	714.5
72.5°	2749.3	1696.4	1036.3	830.5	750.0	664.8	624.6	608.1	589.1	586.8	574.9
73°	2297.4	1521.3	989.0	799.7	719.3	648.3	603.3	577.3	565.5	556.0	553.6
75°	1398.3	1154.6	825.7	674.3	612.8	558.4	518.2	494.5	482.7	475.6	473.2
77.5°	920.4	861.2	641.2	515.8	468.5	435.3	418.8	395.1	388.0	378.6	378.6
80°	686.1	657.7	459.0	364.4	336.0	307.6	302.8	298.1	279.2	267.4	262.6
82.5°	442.4	468.5	312.3	243.7	212.9	189.3	191.6	198.7	179.8	163.3	158.5
85°	314.7	338.3	189.3	111.2	89.9	78.1	87.5	78.1	80.4	63.9	52.1
87.5°	52.1	89.9	33.1	14.2	7.1	4.7	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)