

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: P459059

Luminaire Tested: **GALN-SA5C-735-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33563 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

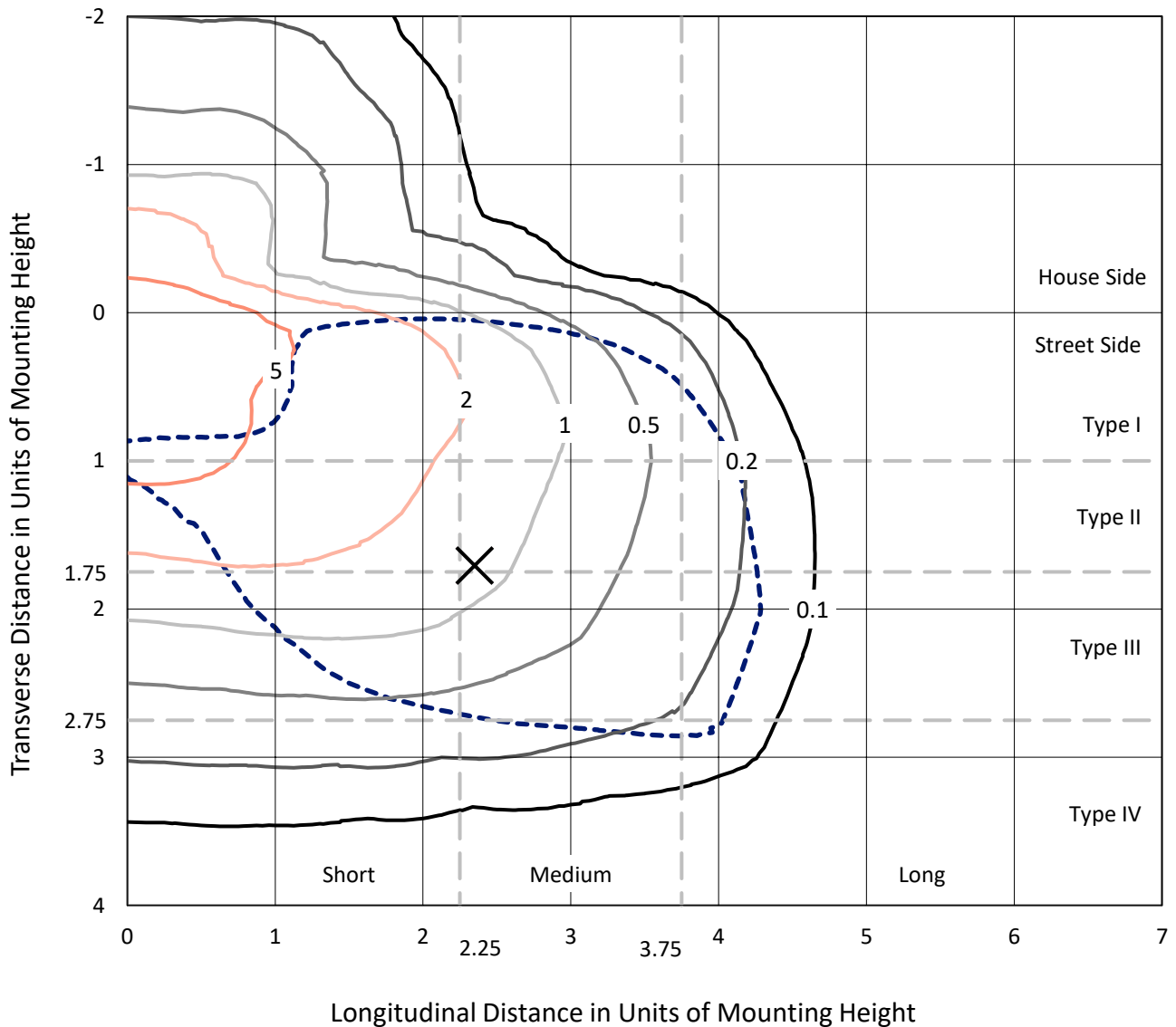
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

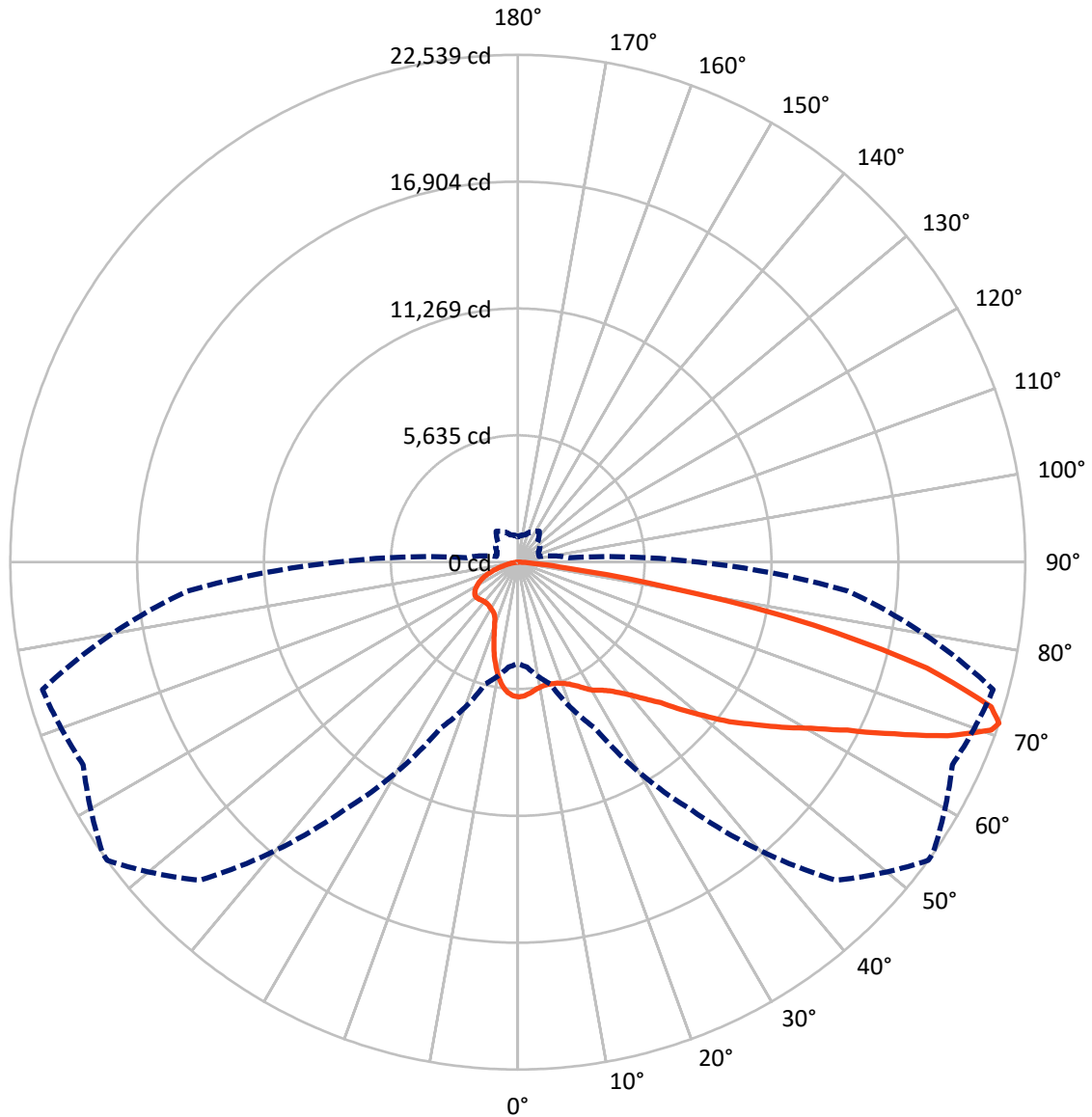
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6059.6	0.0	6059.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	27503.4	0.0	27503.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	33563.0	0.0	33563.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.6	1.6
10°-20°	1409.1	4.2
20°-30°	2346.1	7.0
30°-40°	3469.2	10.3
40°-50°	4886.5	14.6
50°-60°	6543.2	19.5
60°-70°	8247.2	24.6
70°-80°	5632.8	16.8
80°-90°	495.4	1.5
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°	33563.0	100.0
0°-180°	33563.0	100.0

**Coefficient of Utilization**



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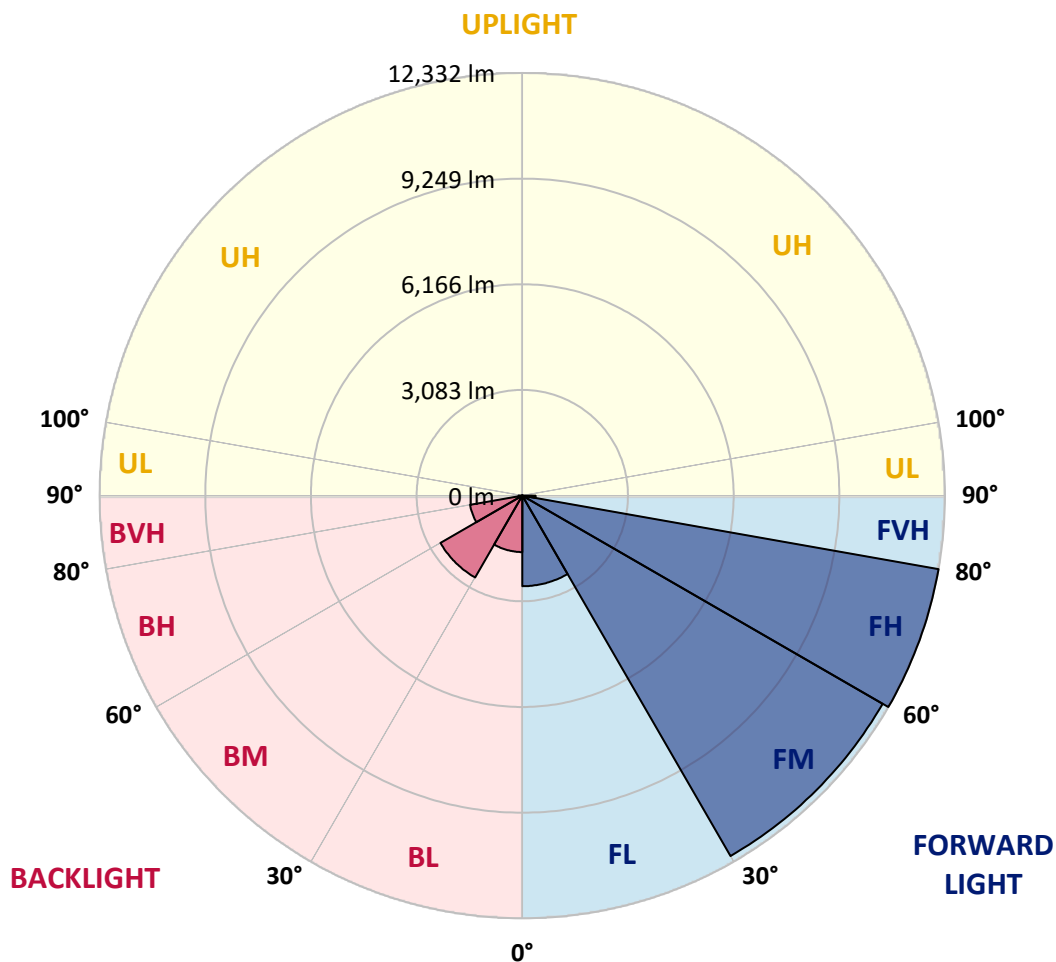
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2642.0	7.9			
FM	(30°-60°)	12141.9	36.2			
FH	(60°-80°)	12332.4	36.7			G5
FVH	(80°-90°)	387.2	1.2			G3/500
BL	(0°-30°)	1646.9	4.9	B3/2500		
BM	(30°-60°)	2756.9	8.2	B3/5000		
BH	(60°-80°)	1547.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	108.2	0.3			G2/225
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1
2.5°	5785.1	5812.3	5819.5	5837.7	5875.7	5906.6	5937.4	5933.7	5977.3	5995.4	6011.7
5°	5527.6	5534.9	5562.1	5598.4	5665.4	5750.6	5834.0	5835.8	5942.8	6028.0	6069.7
7.5°	5339.1	5362.7	5380.8	5418.9	5489.6	5582.0	5714.4	5725.3	5915.6	6084.2	6173.1
10°	5215.8	5243.0	5263.0	5310.1	5380.8	5484.1	5627.4	5647.3	5895.7	6173.1	6329.0
12.5°	5103.4	5130.6	5148.7	5210.4	5302.8	5429.8	5591.1	5614.7	5902.9	6276.4	6499.4
15°	5172.3	5194.1	5186.8	5204.9	5266.6	5411.6	5605.6	5629.2	5930.1	6376.1	6668.0
17.5°	5478.7	5496.8	5437.0	5368.1	5339.1	5446.1	5650.9	5676.3	5984.5	6479.4	6840.2
20°	5930.1	5979.1	5848.5	5694.4	5554.8	5569.3	5745.2	5772.4	6060.7	6582.8	7016.1
22.5°	6517.5	6553.8	6394.2	6140.4	5883.0	5750.6	5886.6	5902.9	6174.9	6716.9	7208.2
25°	7208.2	7230.0	7008.8	6682.5	6310.8	6060.7	6080.6	6109.6	6363.4	6869.2	7378.7
27.5°	7879.0	7947.9	7692.3	7293.5	6804.0	6387.0	6347.1	6365.2	6568.3	6954.4	7496.5
30°	8674.9	8669.5	8399.3	7937.0	7309.8	6742.3	6599.1	6595.5	6678.9	6996.1	7581.7
32.5°	9309.4	9383.8	9119.1	8615.1	7888.1	7110.3	6773.1	6765.9	6764.1	7068.6	7708.6
35°	10031.0	10041.9	9798.9	9291.3	8513.6	7572.6	7016.1	6979.8	6938.1	7224.6	7880.8
37.5°	10676.4	10727.2	10504.2	9934.9	9128.1	8053.1	7349.7	7326.1	7199.2	7494.7	8156.4
40°	11180.4	11218.5	11084.3	10542.2	9733.7	8571.6	7773.9	7730.4	7576.3	7937.0	8524.4
42.5°	11345.4	11423.3	11475.9	11209.4	10429.8	9186.2	8296.0	8241.6	8123.8	8607.8	8948.7
45°	11358.1	11481.3	11758.7	11771.4	11129.6	9922.2	8905.2	8867.1	8858.0	9467.2	9545.1
47.5°	11262.0	11387.1	11853.0	12105.0	11753.3	10665.5	9784.4	9724.6	9730.0	10529.5	10214.1
50°	11029.9	11178.6	11744.2	12318.9	12241.0	11437.8	10712.7	10692.7	10805.1	11742.4	10908.5
52.5°	10593.0	10772.5	11631.8	12453.1	12603.5	12103.2	11767.8	11711.6	11996.2	13058.6	11668.1
55°	9383.8	9653.9	11220.3	12527.4	12948.0	12739.5	12717.8	12819.3	13196.4	14494.4	12503.8
57.5°	8752.9	8955.9	10326.5	12540.1	13383.1	13479.2	13827.3	13852.7	14512.6	16019.1	13448.4
60°	8408.4	8587.9	9837.0	12456.7	13990.4	14394.7	14962.2	15052.8	15797.9	17670.7	14427.4
62.5°	8107.5	8261.6	9543.3	12168.4	14675.7	15752.6	16432.5	16476.0	17257.4	19494.5	15393.7
65°	7398.6	7574.5	8952.3	11880.2	15266.8	17449.5	18383.2	18332.4	18811.1	21068.2	15999.2
67.5°	6443.2	6666.2	7848.2	10884.9	15558.6	19304.2	20580.5	20517.0	20344.8	22099.7	16173.2
70°	5223.1	5342.7	6435.9	9164.4	14392.9	20277.7	22315.5	22248.4	21294.8	22235.7	15350.2
71°	4494.3	4681.0	5603.8	8140.1	13423.0	19980.4	22538.5	22520.3	21296.6	21860.4	14730.1
72.5°	3508.0	3622.3	4438.1	6307.2	11408.8	18290.7	21987.3	22056.2	20834.3	20818.0	13452.0
75°	2219.0	2269.8	2784.7	3712.9	6260.1	12953.4	18769.4	18956.1	18499.2	17039.8	10003.8
77.5°	1289.0	1354.3	1667.9	2188.2	2704.9	7030.6	13430.2	13633.3	12853.7	9382.0	4095.4
80°	750.6	823.1	1098.6	1270.9	1241.9	2608.8	6838.4	7184.7	5565.7	2369.5	1149.4
82.5°	417.0	465.9	772.3	774.1	661.7	852.1	2152.0	2251.7	1588.1	955.4	469.6
85°	302.8	342.6	498.6	451.4	317.3	366.2	748.7	785.0	641.8	402.5	152.3
87.5°	107.0	152.3	273.8	217.6	87.0	76.1	215.7	175.9	163.2	112.4	34.4
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°	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1
2.5°	6020.8	6024.4	6006.3	5973.6	5941.0	5899.3	5852.2	5815.9	5799.6	5797.8	5796.0
5°	6086.0	6095.1	6026.2	5924.7	5812.3	5674.5	5556.7	5422.5	5388.1	5333.7	5350.0
7.5°	6191.2	6185.7	6049.8	5834.0	5571.2	5279.3	5032.7	4889.5	4740.8	4699.1	4700.9
10°	6341.7	6307.2	6049.8	5649.1	5210.4	4777.1	4432.6	4215.1	4097.2	3999.3	3963.1
12.5°	6501.2	6414.2	5991.8	5389.9	4746.3	4215.1	3845.2	3551.5	3475.4	3395.6	3397.4
15°	6653.5	6508.4	5877.5	5025.5	4245.9	3615.0	3256.0	3080.2	3056.6	3065.7	3063.9
17.5°	6791.3	6575.5	5703.5	4619.4	3662.1	3100.1	2909.8	2922.5	2985.9	3031.2	3036.7
20°	6930.9	6615.4	5444.3	4075.5	3111.0	2788.3	2795.6	2895.3	2991.3	3053.0	3062.1
22.5°	7063.2	6633.5	5139.7	3549.7	2712.2	2656.0	2762.9	2869.9	2964.2	3024.0	3033.0
25°	7150.2	6591.8	4708.2	3000.4	2516.4	2608.8	2721.2	2811.9	2891.6	2953.3	2967.8
27.5°	7173.8	6457.7	4173.4	2556.2	2425.7	2563.5	2666.8	2733.9	2795.6	2853.6	2864.4
30°	7161.1	6260.1	3586.0	2295.2	2373.1	2510.9	2590.7	2639.6	2714.0	2759.3	2768.4
32.5°	7141.2	6029.8	2973.2	2155.6	2329.6	2462.0	2509.1	2552.6	2550.8	2532.7	2545.4
35°	7148.4	5754.3	2476.5	2072.2	2291.6	2425.7	2465.6	2411.2	2255.3	2248.0	2240.8
37.5°	7186.5	5482.3	2115.7	2014.2	2271.6	2420.3	2442.0	2191.8	2054.1	1990.6	1974.3
40°	7284.4	5165.1	1878.2	1970.7	2269.8	2462.0	2335.1	2081.3	1816.6	1693.3	1684.2
42.5°	7414.9	4853.2	1733.2	1943.5	2291.6	2525.4	2291.6	1925.3	1637.1	1564.6	1553.7
45°	7608.9	4496.1	1653.4	1930.8	2324.2	2549.0	2277.1	1811.1	1564.6	1506.6	1506.6
47.5°	7828.3	4155.3	1609.9	1921.7	2365.9	2532.7	2148.3	1774.9	1530.1	1537.4	1571.8
50°	8045.8	3859.7	1577.3	1901.8	2402.1	2523.6	2095.8	1773.1	1539.2	1631.6	1693.3
52.5°	8297.8	3651.3	1537.4	1869.1	2402.1	2465.6	2079.4	1809.3	1564.6	1591.8	1619.0
55°	8602.4	3586.0	1486.6	1798.4	2358.6	2320.6	2070.4	1861.9	1582.7	1519.2	1530.1
57.5°	9004.9	3691.1	1437.7	1709.6	2258.9	2170.1	2066.7	1876.4	1541.0	1488.4	1477.5
60°	9472.6	3899.6	1423.2	1619.0	2123.0	2041.4	2045.0	1834.7	1483.0	1428.6	1437.7
62.5°	9800.7	4024.7	1414.1	1550.1	1974.3	1900.0	1992.4	1783.9	1457.6	1410.5	1419.5
65°	9800.7	3872.4	1330.7	1444.9	1782.1	1729.5	1929.0	1720.5	1425.0	1370.6	1361.5
67.5°	9429.1	3428.3	1203.8	1287.2	1570.0	1535.6	1840.1	1644.3	1376.0	1334.3	1312.6
70°	8461.0	2599.8	1044.3	1102.3	1301.7	1332.5	1725.9	1541.0	1294.4	1243.7	1211.0
71°	8034.9	2264.4	977.2	1008.0	1198.4	1243.7	1671.5	1497.5	1258.2	1185.7	1127.6
72.5°	7213.7	1907.2	875.6	888.3	1024.3	1105.9	1557.3	1414.1	1189.3	1086.0	1020.7
75°	5480.5	1392.3	705.2	698.0	757.8	877.5	1318.0	1260.0	1042.4	902.8	864.8
77.5°	2367.7	757.8	527.6	533.0	514.9	665.3	1037.0	1082.3	893.8	734.2	699.8
80°	717.9	436.9	360.8	368.0	344.5	446.0	730.6	848.5	717.9	571.1	523.9
82.5°	368.0	261.1	246.6	242.9	219.4	252.0	442.4	580.1	513.1	357.1	315.5
85°	159.5	139.6	121.5	117.8	103.3	90.6	157.7	290.1	271.9	199.4	190.4
87.5°	39.9	36.3	23.6	21.8	12.7	1.8	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)