

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: P453500

Luminaire Tested: **GALN-SA4C-740-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453500  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4C-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28084 lumens  
Efficiency: N/A  
Efficacy: 131.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

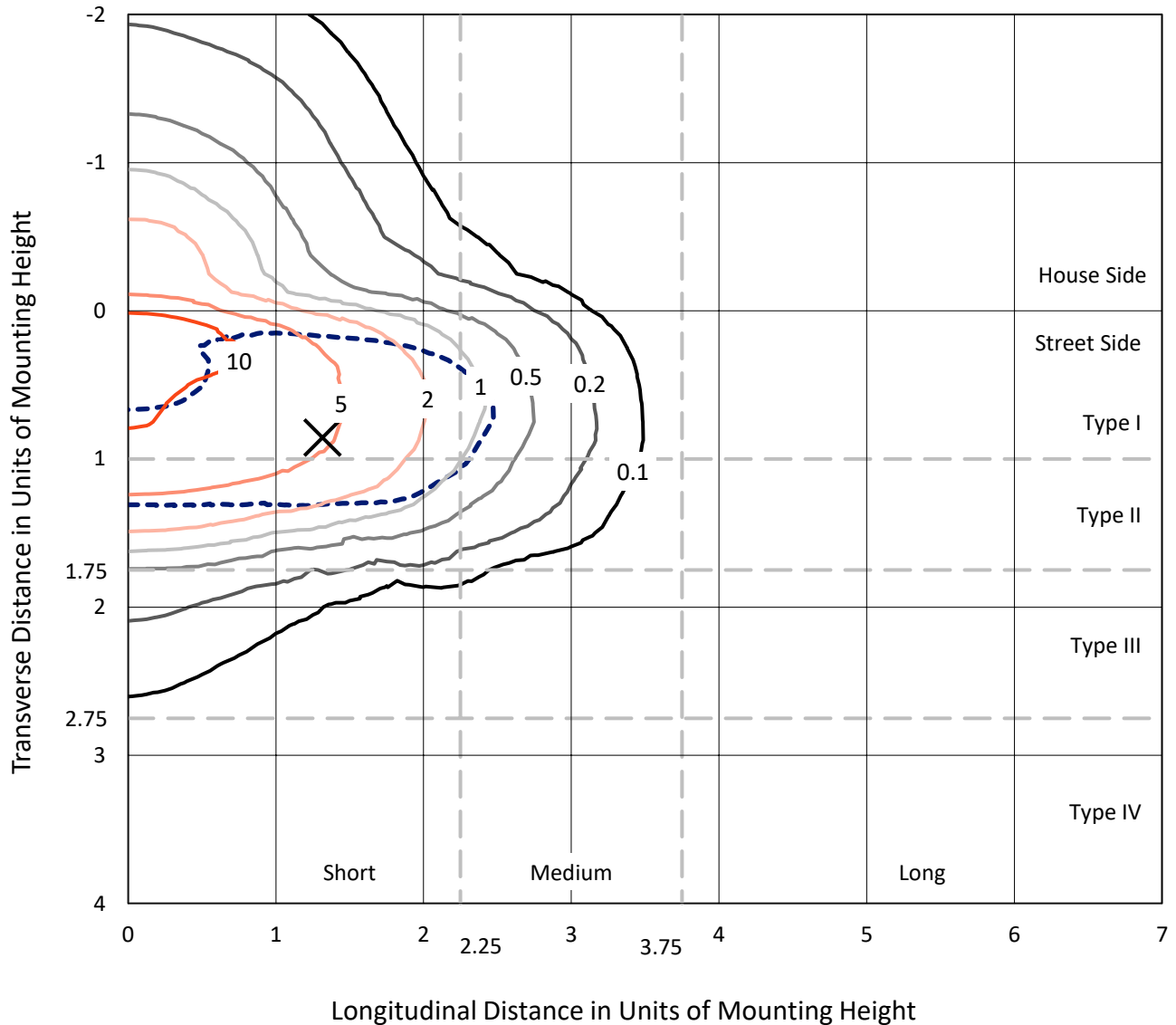
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

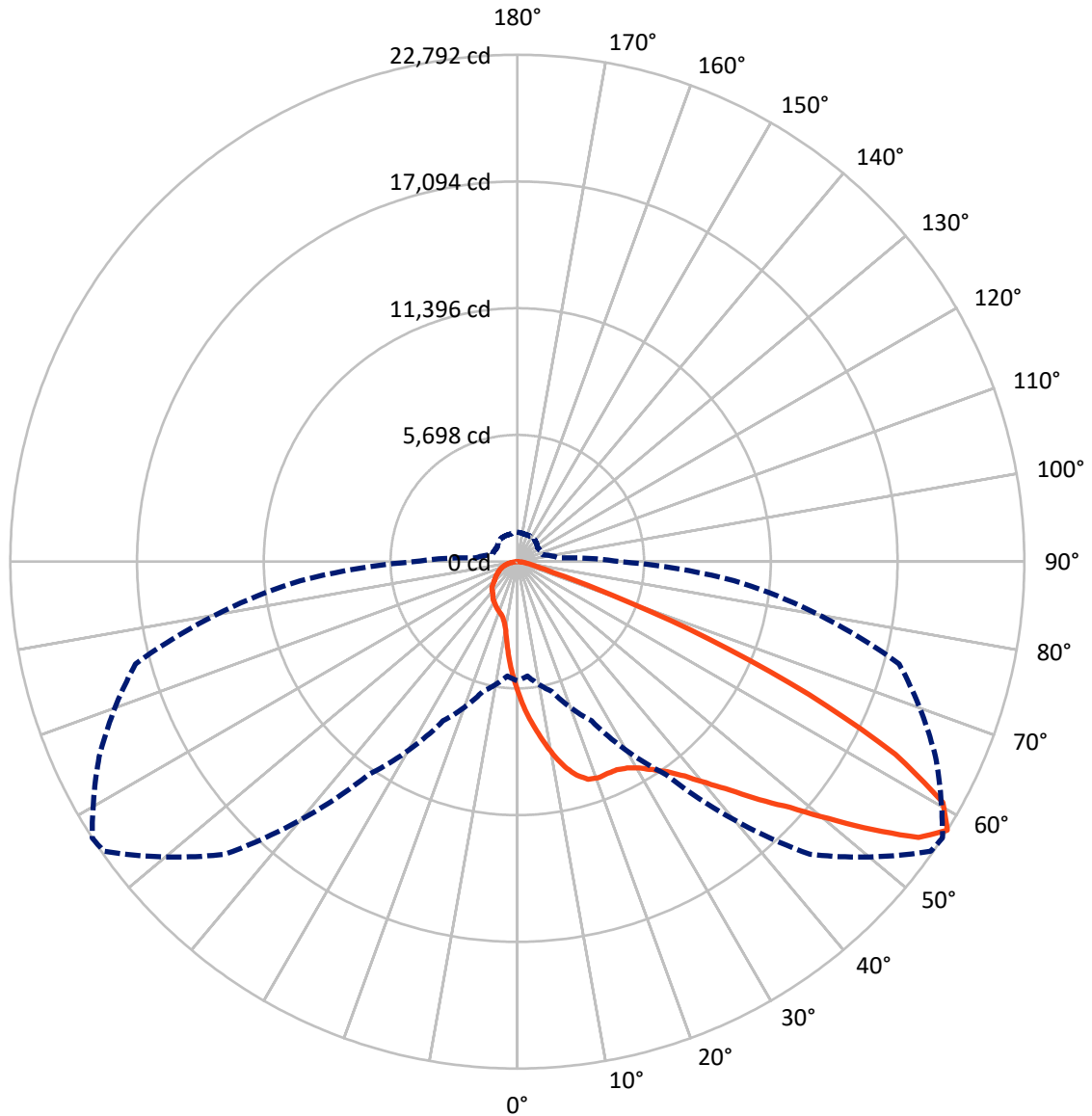
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4270.8	0.0	4270.8
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	23813.2	0.0	23813.2
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	28084.0	0.0	28084.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.1	2.0
10°-20°	1671.2	6.0
20°-30°	2775.0	9.9
30°-40°	4179.9	14.9
40°-50°	6275.8	22.3
50°-60°	7034.4	25.0
60°-70°	4116.9	14.7
70°-80°	1217.7	4.3
80°-90°	246.1	0.9
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°	28084.0	100.0
0°-180°	28084.0	100.0

**Coefficient of Utilization**



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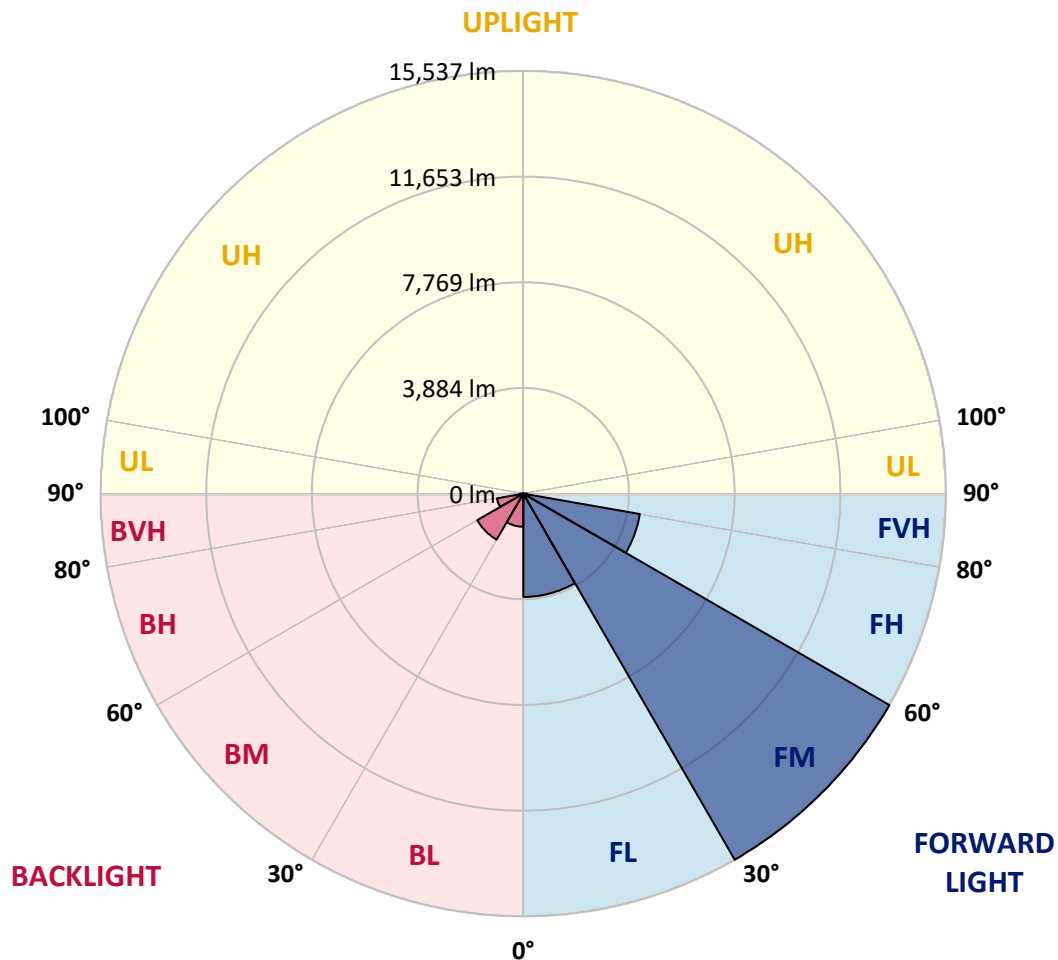
CATALOG NUMBER: GALN-SA4C-740-U-AFL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3796.3	13.5			
FM	(30°-60°)	15537.3	55.3			
FH	(60°-80°)	4351.9	15.5			G2/5000
FVH	(80°-90°)	127.7	0.5			G2/225
BL	(0°-30°)	1216.9	4.3	B3/2500		
BM	(30°-60°)	1952.8	7.0	B2/2500		
BH	(60°-80°)	982.7	3.5	B2/1000		G2/1000
BVH	(80°-90°)	118.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1
2.5°	7331.3	7251.4	7188.4	7133.0	7060.8	6865.5	6670.3	6667.2	6512.0	6272.2	6026.2
5°	8525.8	8418.2	8432.0	8259.9	8087.7	7804.8	7391.3	7369.8	7039.3	6590.4	6133.8
7.5°	9303.7	9305.2	9262.2	9163.8	8977.8	8656.5	8187.6	8081.5	7621.9	6940.9	6256.8
10°	9263.7	9305.2	9377.5	9462.0	9518.9	9360.6	8933.2	8804.1	8206.1	7365.2	6393.6
12.5°	8731.8	8796.4	8899.4	9111.5	9454.3	9715.7	9569.6	9465.1	8882.5	7787.9	6544.3
15°	8399.8	8438.2	8495.1	8638.0	9007.0	9632.7	10010.8	9955.5	9520.4	8266.0	6713.4
17.5°	8298.3	8336.7	8355.2	8442.8	8705.7	9346.7	10184.6	10282.9	10086.2	8705.7	6884.0
20°	8399.8	8418.2	8418.2	8470.5	8676.5	9179.2	10176.9	10375.2	10550.4	9233.0	7043.9
22.5°	8665.7	8673.4	8662.6	8681.1	8834.8	9225.3	10104.6	10350.6	10925.5	9680.3	7168.4
25°	9097.7	9110.0	9039.3	8996.2	9108.5	9428.2	10144.6	10370.6	11219.2	10107.7	7251.4
27.5°	9588.1	9603.5	9517.4	9417.5	9469.7	9678.8	10301.4	10504.3	11439.0	10528.9	7303.7
30°	10189.2	10195.3	10050.8	9930.9	9897.1	10052.4	10568.9	10758.0	11712.6	11025.5	7382.1
32.5°	10804.1	10850.2	10664.2	10495.1	10438.2	10485.9	10964.0	11146.9	12038.5	11558.9	7508.1
35°	11640.4	11648.1	11425.2	11219.2	11031.6	11093.1	11469.7	11601.9	12489.0	12175.4	7686.5
37.5°	12684.2	12754.9	12447.5	12063.1	11832.5	11743.4	12081.6	12226.1	13120.8	12931.7	7955.5
40°	13843.3	13869.4	13606.6	13366.8	12945.5	12687.3	12920.9	13077.7	13900.2	13834.1	8267.6
42.5°	14572.0	14628.9	14648.9	14624.3	14307.6	13874.1	13963.2	14037.0	14822.6	14681.1	8587.3
45°	14818.0	14902.5	15188.4	15794.1	15828.0	15400.6	15193.1	15263.8	15828.0	15535.9	8893.2
47.5°	14410.6	14555.1	15082.4	16324.5	17254.6	17286.8	16661.2	16505.9	16744.2	16244.6	9114.6
50°	13357.5	13388.3	14195.4	15994.0	17923.3	19090.1	18442.9	18153.9	17614.3	16768.8	9266.8
52.5°	11728.0	11763.4	12439.8	14458.2	17511.3	20350.7	20527.5	20010.9	18498.2	17176.2	9366.7
55°	8705.7	8910.1	9654.2	11605.0	15558.9	20232.3	22184.7	21891.0	19566.7	17499.0	9523.5
57.5°	5352.9	5165.3	6047.7	7895.5	11701.9	18605.8	22696.6	22791.9	20742.7	17769.6	9786.4
60°	2462.7	2499.6	2864.0	4072.3	7133.0	14555.1	21377.6	21980.2	21393.0	17760.3	9852.5
62.5°	1697.2	1663.4	1571.1	1787.9	3252.9	9205.3	18057.0	19077.8	20089.3	17208.4	9589.6
65°	1517.3	1483.5	1305.2	1245.2	1494.2	4012.3	13126.9	14415.2	16914.8	15815.7	8934.7
67.5°	1417.4	1371.3	1186.8	1070.0	1066.9	1597.2	7740.3	9291.4	12545.8	13371.4	7741.8
70°	1312.8	1276.0	1093.0	963.9	908.5	1003.9	3402.0	4453.5	8146.1	9635.7	6030.8
72.5°	1208.3	1165.3	1000.8	862.4	790.2	751.7	1303.6	1695.6	4602.7	5777.1	3697.2
75°	1056.1	1034.6	894.7	780.9	702.5	607.2	827.1	943.9	2201.4	2653.4	1855.5
77.5°	923.9	900.9	794.8	682.6	625.7	493.5	587.2	641.1	928.5	1076.1	837.8
80°	676.4	699.5	670.3	602.6	558.0	387.4	395.1	439.7	551.9	610.3	511.9
82.5°	428.9	471.9	516.5	464.3	422.8	305.9	273.6	290.5	376.6	399.7	227.5
85°	179.9	182.9	299.8	282.9	241.4	181.4	164.5	173.7	201.4	210.6	106.1
87.5°	69.2	67.6	106.1	98.4	75.3	52.3	52.3	58.4	79.9	73.8	33.8
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°	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1	5900.1
2.5°	5920.1	5811.0	5594.2	5325.2	5128.4	4907.0	4711.8	4571.9	4519.6	4495.0	4448.9
5°	5915.5	5700.3	5251.4	4781.0	4402.8	4015.4	3688.0	3475.8	3457.4	3315.9	3302.1
7.5°	5917.0	5588.1	4873.2	4181.4	3604.9	3208.3	2937.8	2867.0	2782.5	2761.0	2771.7
10°	5921.6	5445.1	4467.4	3588.0	3030.0	2770.2	2668.7	2641.1	2644.1	2653.4	2654.9
12.5°	5927.8	5306.7	4046.2	3137.6	2707.2	2599.6	2588.8	2613.4	2639.5	2659.5	2664.1
15°	5935.5	5148.4	3635.7	2774.8	2545.8	2536.5	2571.9	2613.4	2650.3	2679.5	2684.1
17.5°	5926.3	4963.9	3291.3	2551.9	2456.6	2501.2	2559.6	2611.9	2645.7	2673.4	2676.4
20°	5904.7	4757.9	2959.3	2395.1	2401.3	2473.5	2536.5	2585.7	2622.6	2636.5	2647.2
22.5°	5821.7	4512.0	2670.3	2273.7	2335.1	2435.1	2510.4	2539.6	2498.1	2468.9	2476.6
25°	5680.3	4192.2	2401.3	2175.3	2275.2	2381.3	2458.1	2387.4	2353.6	2341.3	2347.4
27.5°	5503.5	3841.7	2198.3	2072.3	2198.3	2321.3	2299.8	2287.5	2272.1	2252.1	2256.7
30°	5312.9	3498.9	2026.2	1992.3	2115.3	2186.0	2195.3	2215.2	2198.3	2167.6	2179.9
32.5°	5136.1	3176.0	1895.5	1924.7	2056.9	2046.1	2115.3	2138.4	2060.0	1957.0	1961.6
35°	4985.4	2876.3	1797.1	1858.6	1957.0	1961.6	2030.8	1950.8	1866.3	1817.1	1820.2
37.5°	4871.7	2642.6	1732.5	1801.7	1829.4	1887.8	1850.9	1809.4	1798.6	1764.8	1766.3
40°	4804.0	2438.1	1691.0	1757.1	1752.5	1792.5	1674.1	1715.6	1731.0	1720.2	1721.8
42.5°	4736.4	2293.6	1648.0	1695.6	1694.1	1615.7	1589.6	1624.9	1664.9	1669.5	1666.4
45°	4682.6	2181.4	1603.4	1601.9	1632.6	1509.6	1501.9	1523.5	1580.3	1608.0	1606.5
47.5°	4622.6	2087.6	1535.8	1492.7	1501.9	1443.5	1431.2	1440.4	1509.6	1554.2	1566.5
50°	4547.3	1993.9	1451.2	1392.8	1354.4	1382.0	1385.1	1386.6	1455.8	1506.5	1517.3
52.5°	4487.4	1923.2	1354.4	1311.3	1265.2	1326.7	1349.7	1352.8	1394.3	1435.8	1443.5
55°	4522.7	1883.2	1259.0	1228.3	1186.8	1269.8	1314.4	1320.5	1329.8	1360.5	1365.1
57.5°	4628.8	1892.4	1182.2	1142.2	1111.5	1202.2	1277.5	1282.1	1276.0	1312.8	1319.0
60°	4661.1	1887.8	1125.3	1046.9	1028.4	1129.9	1223.7	1232.9	1231.4	1285.2	1295.9
62.5°	4525.8	1829.4	1068.4	967.0	954.7	1056.1	1148.4	1185.3	1192.9	1269.8	1283.6
65°	4207.6	1709.5	993.1	882.4	882.4	977.7	1076.1	1126.8	1148.4	1251.4	1266.7
67.5°	3787.9	1568.0	916.2	810.2	807.1	902.4	999.2	1051.5	1085.3	1225.2	1234.4
70°	3143.8	1377.4	820.9	731.8	731.8	817.8	905.5	968.5	1017.7	1176.0	1176.0
72.5°	2153.7	1145.3	705.6	642.6	644.1	724.1	813.2	883.9	942.4	1077.6	1080.7
75°	1362.0	894.7	579.6	547.3	553.4	628.8	721.0	794.8	911.6	1065.3	1070.0
77.5°	724.1	628.8	461.2	453.5	461.2	530.4	633.4	734.8	914.7	923.9	908.5
80°	468.9	445.8	364.3	349.0	352.0	427.4	564.2	697.9	734.8	744.0	710.2
82.5°	255.2	282.9	258.3	242.9	242.9	333.6	481.2	555.0	527.3	438.1	418.1
85°	109.1	132.2	133.7	116.8	112.2	206.0	322.8	302.8	281.3	269.0	266.0
87.5°	30.7	43.0	43.0	32.3	24.6	56.9	64.6	18.4	0.0	1.5	3.1
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)