

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: P454892

Luminaire Tested: **GALN-SA6A-740-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454892  
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-SA6A-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27384 lumens  
Efficiency: N/A  
Efficacy: 150.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

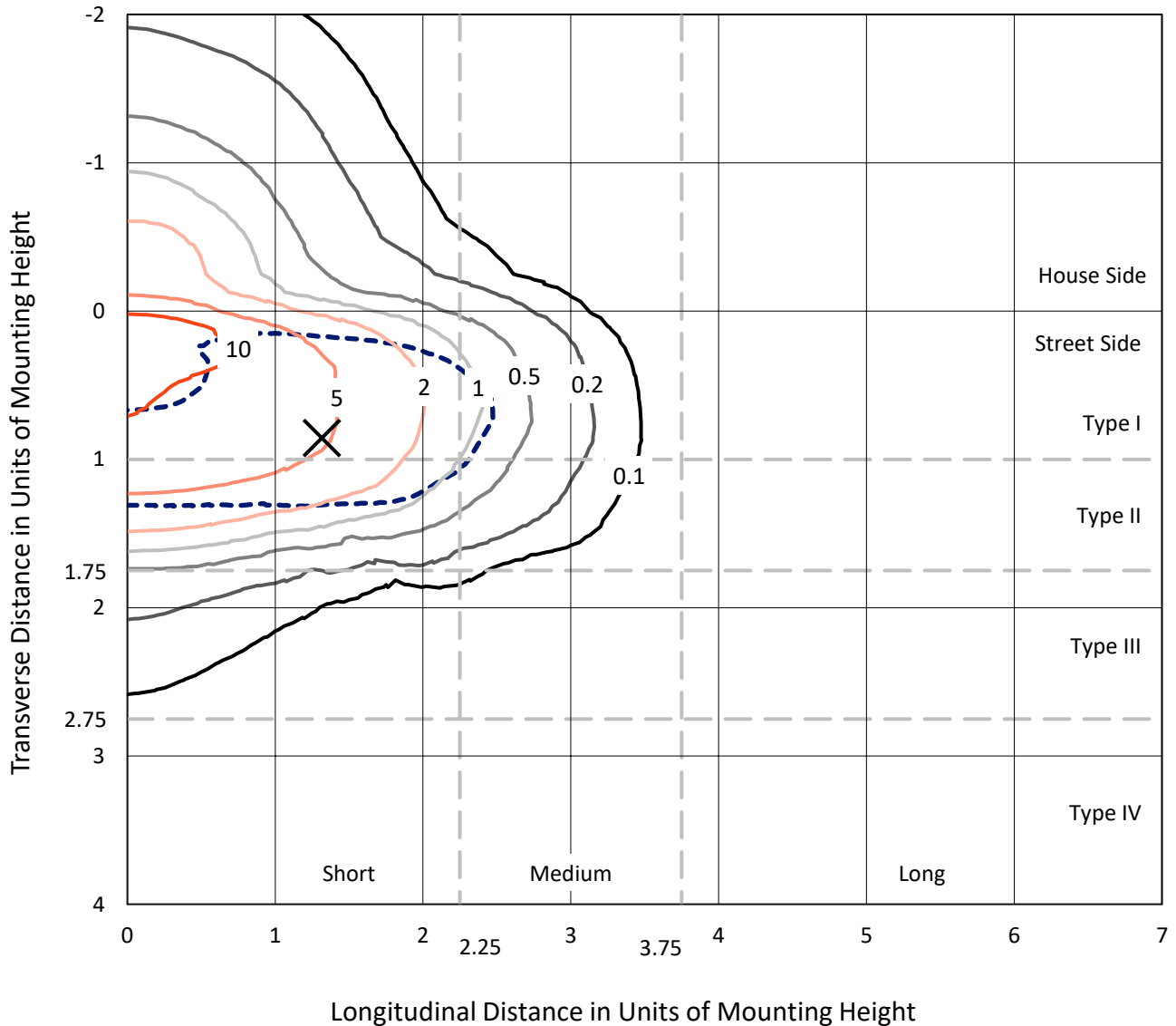
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

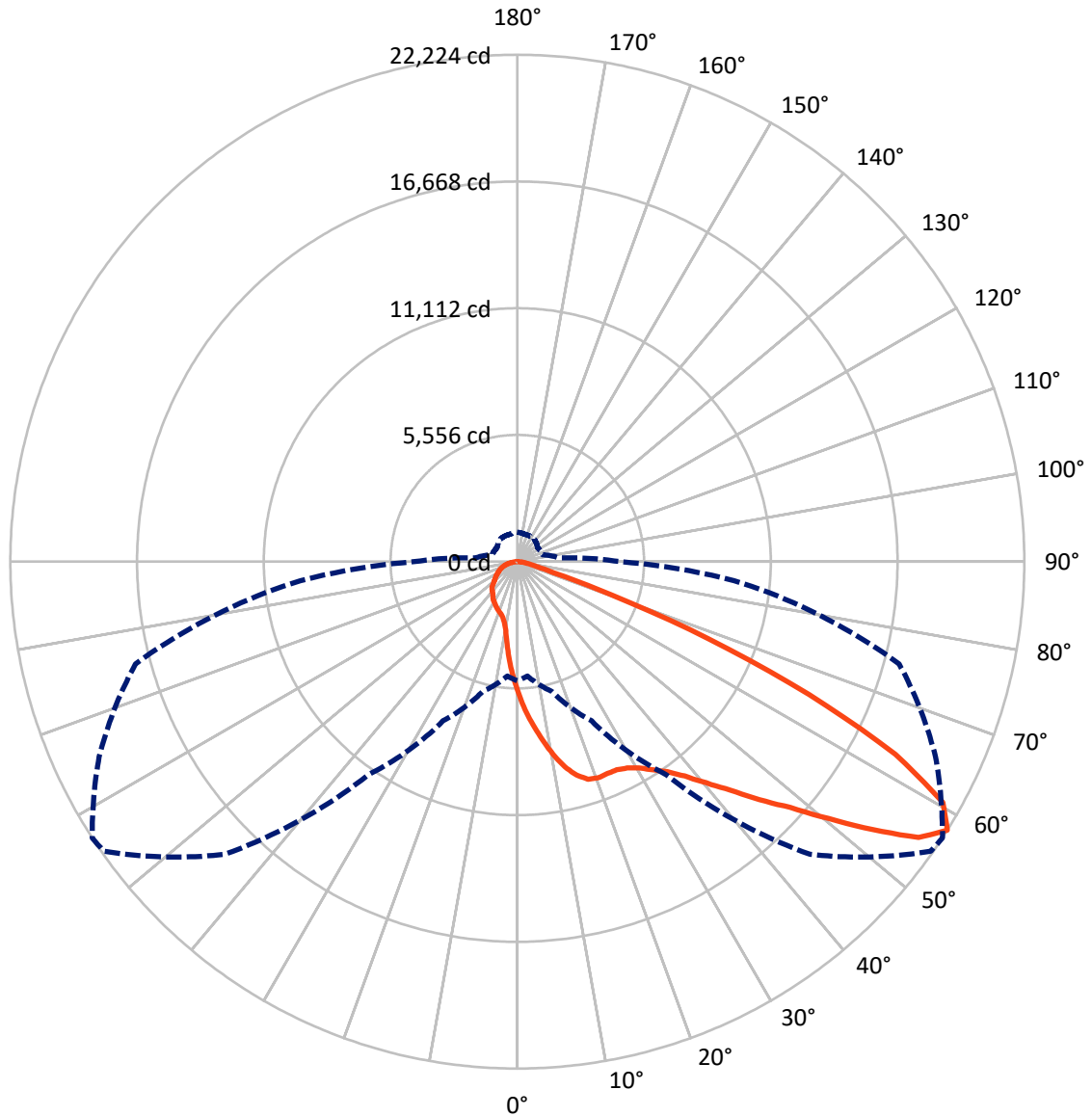
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	4164.3	0.0	4164.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	23219.7	0.0	23219.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	27384.0	0.0	27384.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.9	2.0
10°-20°	1629.5	6.0
20°-30°	2705.8	9.9
30°-40°	4075.7	14.9
40°-50°	6119.3	22.3
50°-60°	6859.0	25.0
60°-70°	4014.2	14.7
70°-80°	1187.4	4.3
80°-90°	240.0	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°	27384.0	100.0
0°-180°	27384.0	100.0

**Coefficient of Utilization**



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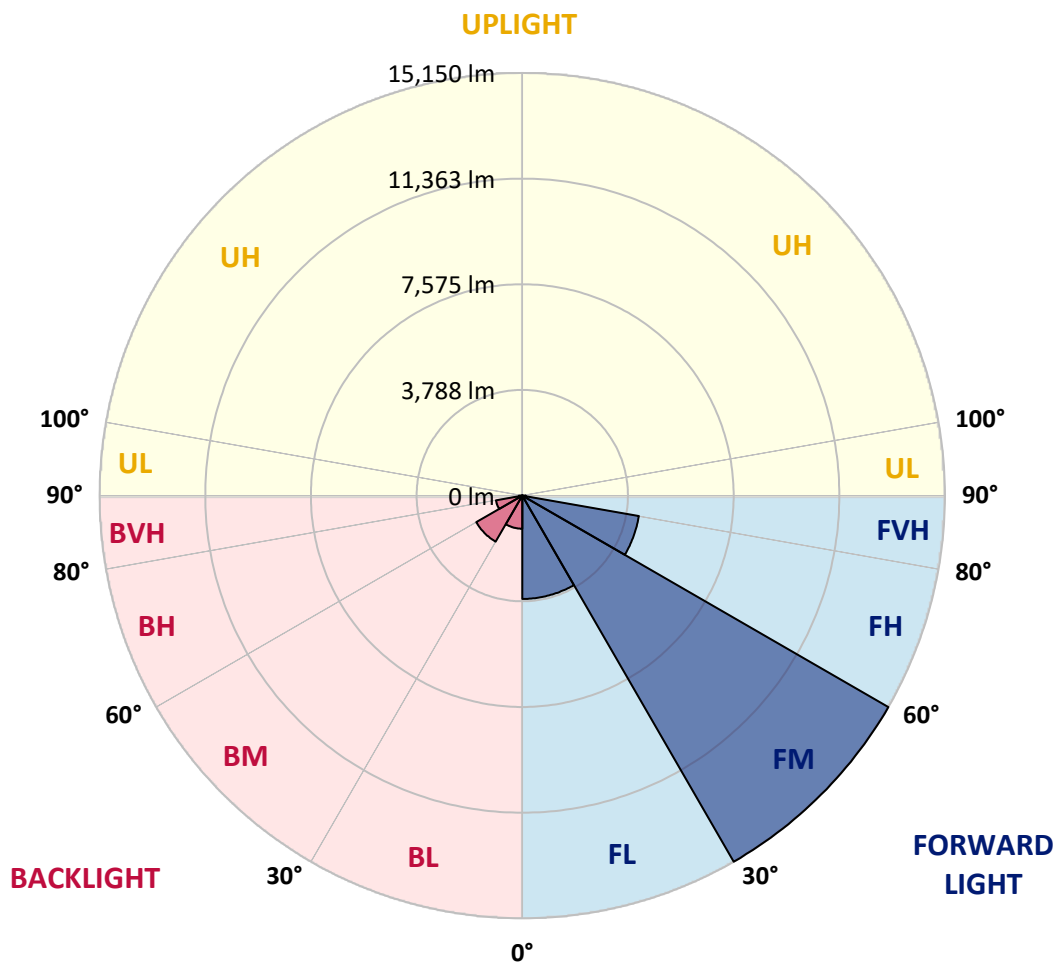
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3701.7	13.5			
FM	(30°-60°)	15150.0	55.3			
FH	(60°-80°)	4243.4	15.5			G2/5000
FVH	(80°-90°)	124.5	0.5			G2/225
BL	(0°-30°)	1186.6	4.3	B3/2500		
BM	(30°-60°)	1904.1	7.0	B2/2500		
BH	(60°-80°)	958.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	115.5	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°	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1
2.5°	7148.6	7070.7	7009.2	6955.2	6884.8	6694.4	6504.1	6501.1	6349.7	6115.8	5876.0
5°	8313.3	8208.4	8221.9	8054.0	7886.1	7610.3	7207.1	7186.1	6863.8	6426.1	5980.9
7.5°	9071.8	9073.3	9031.3	8935.4	8754.0	8440.7	7983.5	7880.1	7431.9	6767.9	6100.8
10°	9032.8	9073.3	9143.7	9226.2	9281.7	9127.3	8710.5	8584.6	8001.5	7181.6	6234.2
12.5°	8514.2	8577.1	8677.6	8884.4	9218.7	9473.5	9331.1	9229.2	8661.1	7593.8	6381.1
15°	8190.4	8227.9	8283.3	8422.7	8782.5	9392.6	9761.3	9707.4	9283.2	8060.0	6546.0
17.5°	8091.5	8128.9	8146.9	8232.4	8488.7	9113.8	9930.7	10026.6	9834.8	8488.7	6712.4
20°	8190.4	8208.4	8208.4	8259.4	8460.2	8950.4	9923.2	10116.6	10287.5	9002.8	6868.3
22.5°	8449.7	8457.2	8446.7	8464.7	8614.6	8995.3	9852.8	10092.6	10653.2	9439.0	6989.7
25°	8870.9	8882.9	8814.0	8772.0	8881.4	9193.2	9891.7	10112.1	10939.5	9855.8	7070.7
27.5°	9349.1	9364.1	9280.2	9182.7	9233.7	9437.5	10044.6	10242.5	11153.9	10266.5	7121.6
30°	9935.2	9941.2	9800.3	9683.4	9650.4	9801.8	10305.5	10489.8	11420.7	10750.6	7198.1
32.5°	10534.8	10579.8	10398.4	10233.5	10178.0	10224.5	10690.7	10869.1	11738.5	11270.8	7321.0
35°	11350.2	11357.7	11140.4	10939.5	10756.6	10816.6	11183.9	11312.8	12177.7	11871.9	7494.9
37.5°	12368.0	12437.0	12137.2	11762.5	11537.6	11450.7	11780.4	11921.3	12793.7	12609.4	7757.2
40°	13498.3	13523.7	13267.4	13033.6	12622.9	12371.0	12598.9	12751.8	13553.7	13489.3	8061.5
42.5°	14208.8	14264.2	14283.7	14259.7	13951.0	13528.2	13615.2	13687.1	14453.1	14315.2	8373.3
45°	14448.6	14531.1	14809.9	15400.5	15433.4	15016.7	14814.4	14883.3	15433.4	15148.6	8671.6
47.5°	14051.4	14192.3	14706.4	15917.6	16824.5	16856.0	16245.9	16094.5	16326.8	15839.7	8887.4
50°	13024.6	13054.6	13841.5	15595.3	17476.5	18614.3	17983.2	17701.4	17175.3	16350.8	9035.8
52.5°	11435.7	11470.2	12129.7	14097.9	17074.8	19843.4	20015.8	19512.2	18037.2	16748.0	9133.3
55°	8488.7	8688.1	9413.6	11315.8	15171.1	19728.0	21631.7	21345.4	19079.0	17062.8	9286.1
57.5°	5219.4	5036.6	5897.0	7698.7	11410.2	18142.1	22130.9	22223.8	20225.7	17326.6	9542.5
60°	2401.4	2437.3	2792.6	3970.8	6955.2	14192.3	20844.7	21432.3	20859.7	17317.7	9606.9
62.5°	1654.9	1621.9	1532.0	1743.3	3171.8	8975.9	17607.0	18602.3	19588.6	16779.5	9350.6
65°	1479.5	1446.5	1272.6	1214.2	1457.0	3912.3	12799.7	14055.9	16493.2	15421.5	8712.0
67.5°	1382.1	1337.1	1157.2	1043.3	1040.3	1557.4	7547.3	9059.8	12233.1	13038.1	7548.8
70°	1280.1	1244.1	1065.8	939.9	885.9	978.8	3317.2	4342.5	7943.1	9395.6	5880.5
72.5°	1178.2	1136.2	975.8	840.9	770.5	733.0	1271.1	1653.4	4487.9	5633.1	3605.0
75°	1029.8	1008.8	872.4	761.5	685.0	592.1	806.4	920.4	2146.5	2587.2	1809.3
77.5°	900.9	878.4	775.0	665.5	610.1	481.2	572.6	625.1	905.4	1049.3	816.9
80°	659.5	682.0	653.6	587.6	544.1	377.7	385.2	428.7	538.1	595.1	499.2
82.5°	418.2	460.2	503.7	452.7	412.2	298.3	266.8	283.3	367.2	389.7	221.8
85°	175.4	178.4	292.3	275.8	235.3	176.9	160.4	169.4	196.4	205.4	103.4
87.5°	67.5	66.0	103.4	95.9	73.4	51.0	51.0	57.0	77.9	72.0	33.0
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°	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1	5753.1
2.5°	5772.6	5666.1	5454.8	5192.4	5000.6	4784.7	4594.4	4458.0	4407.0	4383.0	4338.0
5°	5768.1	5558.2	5120.5	4661.8	4293.1	3915.3	3596.0	3389.2	3371.2	3233.3	3219.8
7.5°	5769.6	5448.8	4751.7	4077.2	3515.1	3128.4	2864.5	2795.6	2713.1	2692.2	2702.7
10°	5774.1	5309.4	4356.0	3498.6	2954.5	2701.2	2602.2	2575.2	2578.2	2587.2	2588.7
12.5°	5780.0	5174.5	3945.3	3059.4	2639.7	2534.8	2524.3	2548.3	2573.7	2593.2	2597.7
15°	5787.5	5020.1	3545.1	2705.6	2482.3	2473.3	2507.8	2548.3	2584.2	2612.7	2617.2
17.5°	5778.5	4840.2	3209.3	2488.3	2395.4	2438.8	2495.8	2546.8	2579.7	2606.7	2609.7
20°	5757.6	4639.3	2885.5	2335.4	2341.4	2411.9	2473.3	2521.3	2557.3	2570.7	2581.2
22.5°	5676.6	4399.5	2603.7	2217.0	2276.9	2374.4	2447.8	2476.3	2435.8	2407.4	2414.8
25°	5538.7	4087.7	2341.4	2121.0	2218.5	2321.9	2396.9	2327.9	2294.9	2282.9	2288.9
27.5°	5366.3	3745.9	2143.5	2020.6	2143.5	2263.5	2242.5	2230.5	2215.5	2196.0	2200.5
30°	5180.5	3411.7	1975.6	1942.7	2062.6	2131.5	2140.5	2160.0	2143.5	2113.6	2125.5
32.5°	5008.1	3096.9	1848.2	1876.7	2005.6	1995.1	2062.6	2085.1	2008.6	1908.2	1912.7
35°	4861.2	2804.6	1752.3	1812.3	1908.2	1912.7	1980.1	1902.2	1819.8	1771.8	1774.8
37.5°	4750.3	2576.7	1689.3	1756.8	1783.8	1840.7	1804.8	1764.3	1753.8	1720.8	1722.3
40°	4684.3	2377.4	1648.9	1713.3	1708.8	1747.8	1632.4	1672.9	1687.8	1677.4	1678.9
42.5°	4618.3	2236.5	1606.9	1653.4	1651.9	1575.4	1549.9	1584.4	1623.4	1627.9	1624.9
45°	4565.9	2127.0	1563.4	1561.9	1591.9	1472.0	1464.5	1485.5	1540.9	1567.9	1566.4
47.5°	4507.4	2035.6	1497.5	1455.5	1464.5	1407.5	1395.5	1404.5	1472.0	1515.5	1527.5
50°	4434.0	1944.2	1415.0	1358.1	1320.6	1347.6	1350.6	1352.1	1419.5	1469.0	1479.5
52.5°	4375.5	1875.2	1320.6	1278.6	1233.7	1293.6	1316.1	1319.1	1359.6	1400.0	1407.5
55°	4410.0	1836.2	1227.7	1197.7	1157.2	1238.2	1281.6	1287.6	1296.6	1326.6	1331.1
57.5°	4513.4	1845.2	1152.7	1113.7	1083.8	1172.2	1245.6	1250.1	1244.1	1280.1	1286.1
60°	4544.9	1840.7	1097.2	1020.8	1002.8	1101.7	1193.2	1202.2	1200.7	1253.1	1263.6
62.5°	4413.0	1783.8	1041.8	942.9	930.9	1029.8	1119.7	1155.7	1163.2	1238.2	1251.6
65°	4102.7	1666.9	968.3	860.4	860.4	953.3	1049.3	1098.7	1119.7	1220.2	1235.2
67.5°	3693.5	1529.0	893.4	790.0	787.0	879.9	974.3	1025.3	1058.3	1194.7	1203.7
70°	3065.4	1343.1	800.5	713.5	713.5	797.5	882.9	944.4	992.3	1146.7	1146.7
72.5°	2100.1	1116.7	688.0	626.6	628.1	706.0	793.0	861.9	918.9	1050.8	1053.8
75°	1328.1	872.4	565.1	533.6	539.6	613.1	703.0	775.0	888.9	1038.8	1043.3
77.5°	706.0	613.1	449.7	442.2	449.7	517.1	617.6	716.5	891.9	900.9	885.9
80°	457.2	434.7	355.3	340.3	343.3	416.7	550.1	680.5	716.5	725.5	692.5
82.5°	248.8	275.8	251.8	236.8	236.8	325.3	469.2	541.1	514.1	427.2	407.7
85°	106.4	128.9	130.4	113.9	109.4	200.9	314.8	295.3	274.3	262.3	259.3
87.5°	30.0	42.0	42.0	31.5	24.0	55.5	63.0	18.0	0.0	1.5	3.0
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)