

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: P650918

Luminaire Tested: **GALN-SA5C-840-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-840-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17466.7 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

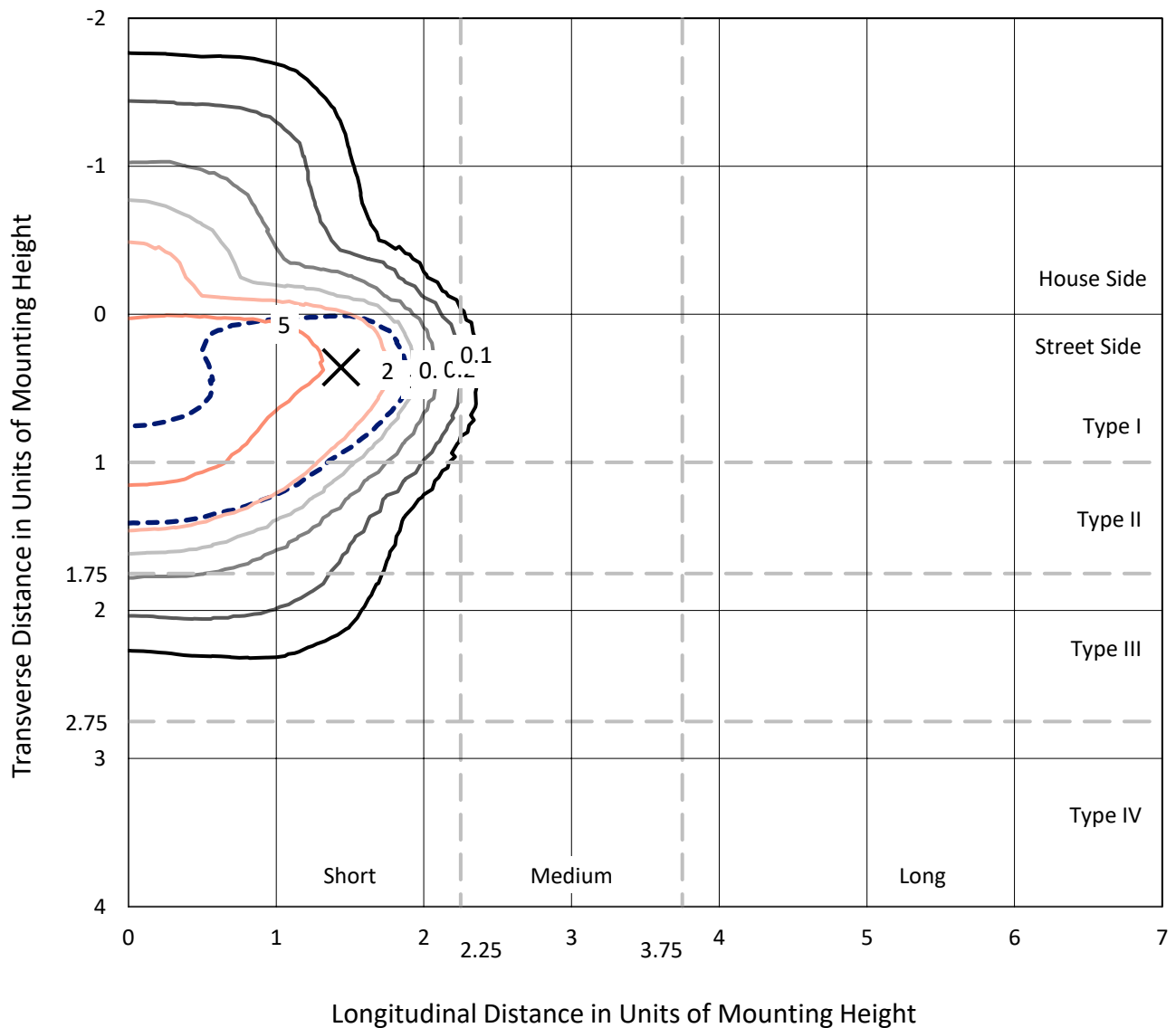
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

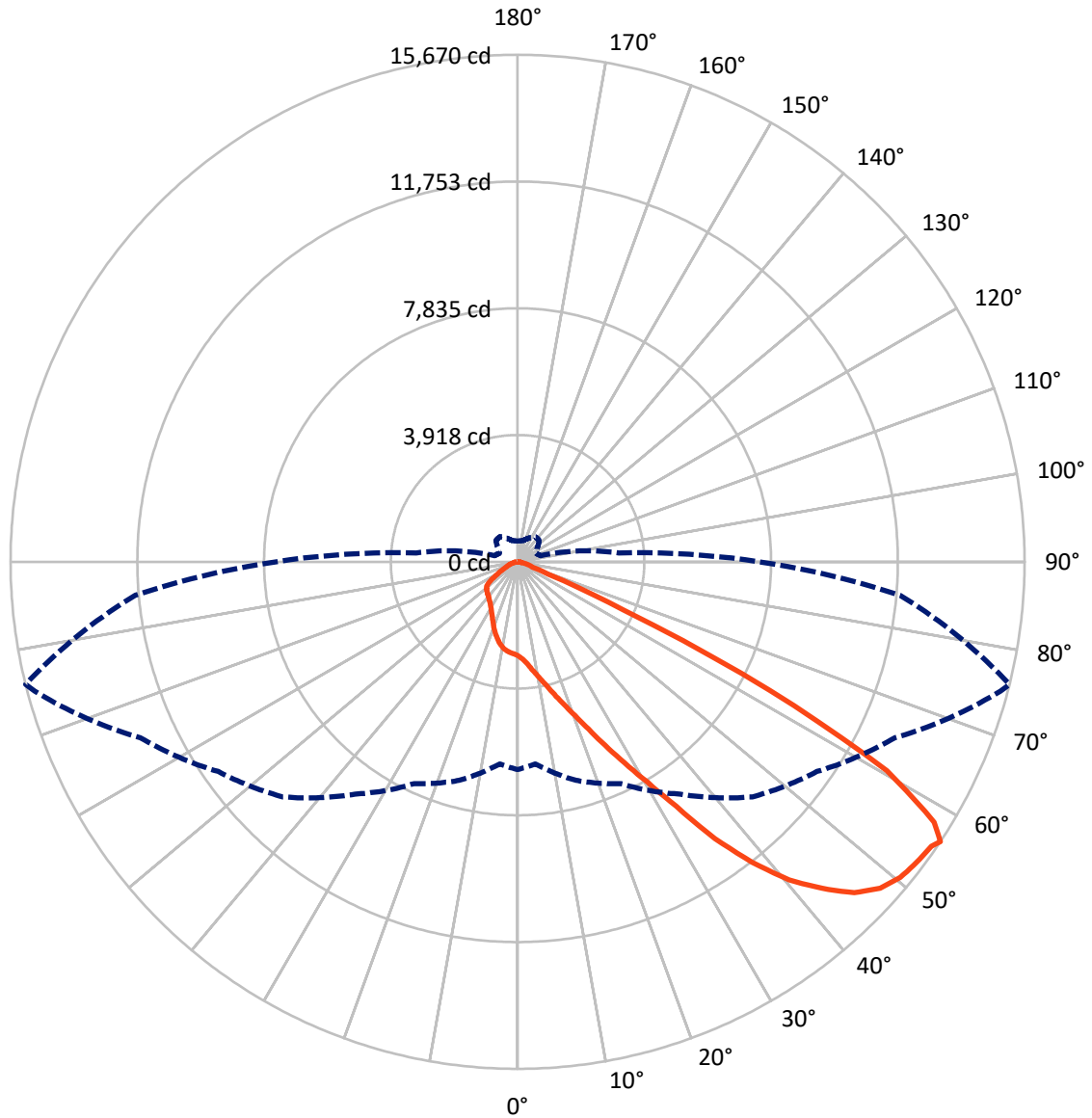
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2743.9	0.0	2743.9
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	14722.8	0.0	14722.8
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	17466.7	0.0	17466.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.9	1.7
10°-20°	940.9	5.4
20°-30°	1706.1	9.8
30°-40°	2942.3	16.8
40°-50°	4779.8	27.4
50°-60°	5038.1	28.8
60°-70°	1539.3	8.8
70°-80°	197.3	1.1
80°-90°	30.0	0.2
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°	17466.7	100.0
0°-180°	17466.7	100.0

**Coefficient of Utilization**

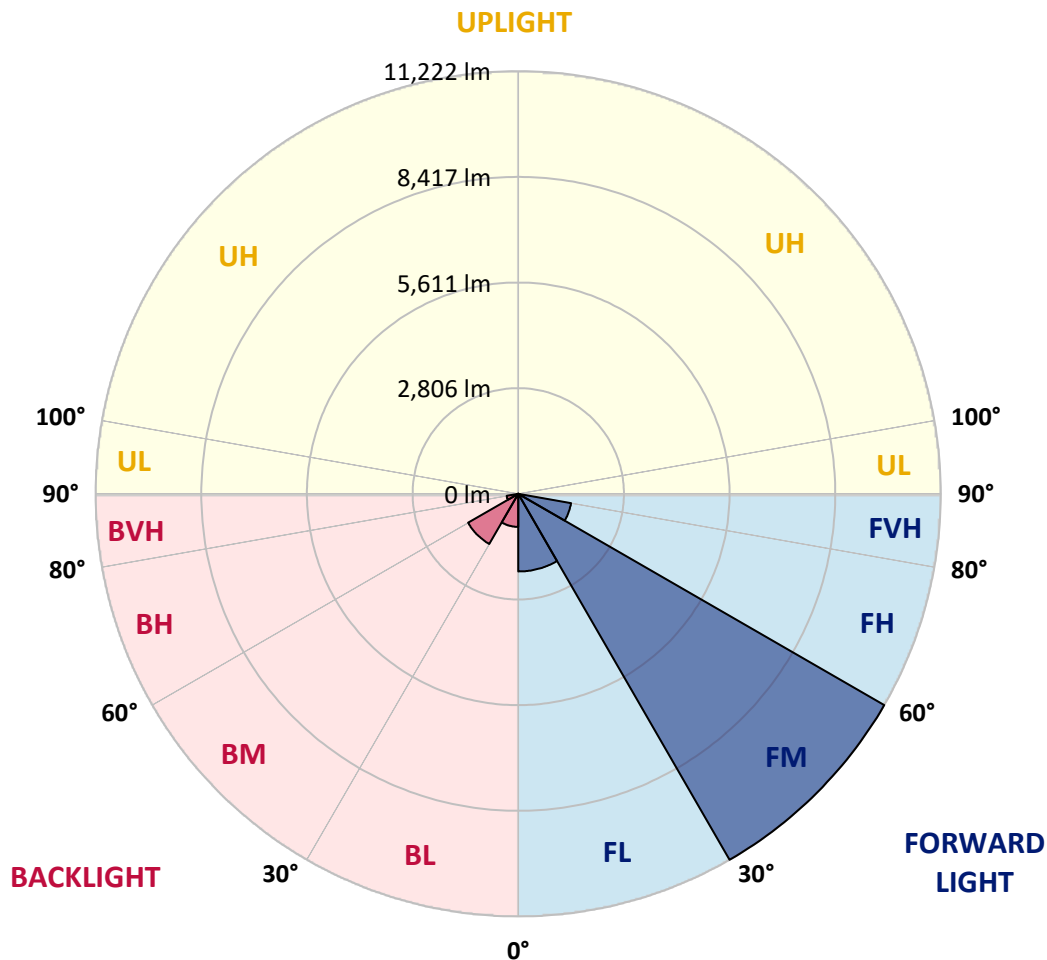


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2062.1	11.8			
FM (30°-60°)	11222.4	64.2			
FH (60°-80°)	1423.6	8.2			G1/1800
FVH (80°-90°)	14.7	0.1			G1/100
BL (0°-30°)	877.8	5.0	B2/1000		
BM (30°-60°)	1537.8	8.8	B2/2500		
BH (60°-80°)	313.0	1.8	B1/500		G1/500
BVH (80°-90°)	15.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3
2.5°	3348.4	3271.2	3274.4	3268.0	3258.3	3222.9	3116.7	3100.5	3029.7	3010.4	2946.0
5°	3750.9	3683.3	3721.9	3664.0	3609.2	3577.0	3403.2	3322.7	3210.0	3168.1	3078.0
7.5°	4002.1	3969.9	3957.0	3960.2	3908.7	3828.1	3750.9	3573.8	3422.5	3390.3	3200.3
10°	4124.4	4105.1	4124.4	4114.8	4137.3	4147.0	4011.7	3905.4	3683.3	3628.6	3332.4
12.5°	4153.4	4192.0	4208.1	4250.0	4304.7	4398.1	4388.4	4243.5	3947.3	3911.9	3535.2
15°	4224.2	4256.4	4240.3	4307.9	4411.0	4568.7	4652.4	4629.9	4311.1	4246.7	3770.2
17.5°	4288.6	4230.7	4285.4	4420.6	4523.7	4765.1	4968.0	5061.3	4707.2	4633.1	3985.9
20°	4375.6	4359.4	4349.7	4417.4	4600.9	4922.9	5325.3	5496.0	5151.5	5074.2	4295.1
22.5°	4639.5	4642.7	4636.3	4536.5	4668.6	5032.4	5637.6	6059.4	5682.7	5618.3	4646.0
25°	4987.3	4945.4	4913.2	4832.7	4816.7	5132.1	5953.2	6748.4	6320.2	6275.1	5025.9
27.5°	5354.3	5354.3	5257.8	5183.7	5080.6	5380.0	6242.9	7418.1	7089.7	7028.6	5357.5
30°	5753.5	5776.1	5763.2	5605.4	5541.0	5650.5	6539.1	8274.5	7971.9	7894.6	5904.9
32.5°	6342.7	6294.5	6349.2	6217.2	6027.2	6123.8	7006.0	9040.8	9118.1	9008.6	6622.9
35°	7121.9	7092.9	7057.5	6841.8	6616.4	6693.7	7666.1	9984.2	10557.3	10502.6	7347.3
37.5°	7820.5	7804.5	7775.5	7627.4	7366.6	7460.0	8416.2	10966.2	11961.0	11780.8	8371.1
40°	8554.7	8641.6	8548.3	8416.2	8178.0	8384.0	9298.4	11548.9	13142.7	12923.7	9153.5
42.5°	9549.6	9481.9	9523.8	9282.3	9153.5	9378.9	10183.8	12131.8	14060.3	13799.5	9984.2
45°	10608.8	10612.1	10499.4	10422.1	10087.2	10331.9	10728.0	12453.7	14791.2	14588.3	10612.1
47.5°	11288.2	11285.0	11407.3	11529.6	11185.1	10943.7	11098.2	12759.6	15167.9	15074.5	10840.7
50°	11181.9	11214.1	11371.9	11829.1	12009.4	11684.2	11445.9	12669.4	15338.5	15328.8	11037.0
52.5°	9726.6	9832.9	10096.9	10756.9	11664.8	12067.3	11809.7	12836.9	15422.3	15438.3	11330.0
55°	7405.3	7463.2	7965.4	8767.2	9771.7	11149.7	11664.8	12968.8	15486.6	15515.6	11684.2
56°	6423.2	6268.7	6993.2	7563.0	8764.0	10270.7	11297.8	12865.8	15448.0	15670.1	11861.3
57.5°	4848.8	4745.8	5331.8	6043.3	7199.2	8789.7	10158.1	12379.6	15187.2	15184.0	11606.9
60°	2949.2	2846.2	3297.0	3715.5	4362.7	5412.3	6864.3	9858.6	12840.1	13110.5	9398.3
62.5°	1754.7	1819.1	2263.5	2517.8	2727.0	2836.5	3551.3	5859.8	8567.5	8760.7	5830.8
65°	1168.7	1191.3	1526.2	1944.6	2038.1	1622.7	1445.6	2372.9	3715.5	3596.4	2405.1
67.5°	721.2	772.7	1023.8	1461.7	1619.5	1184.8	685.8	885.4	1023.8	1023.8	695.4
70°	437.9	463.6	682.6	994.9	1110.8	763.0	499.0	499.0	492.6	483.0	415.4
72.5°	209.2	225.4	347.8	511.9	521.6	402.4	386.4	421.8	412.1	408.9	344.5
75°	90.2	96.6	122.4	161.0	183.5	170.6	235.1	302.7	312.3	302.7	247.9
77.5°	29.0	32.2	45.1	57.9	61.1	74.1	99.8	125.6	144.9	135.2	122.4
80°	3.2	6.5	12.9	29.0	45.1	57.9	74.1	83.7	93.4	93.4	87.0
82.5°	3.2	3.2	12.9	25.7	41.9	54.7	70.8	80.5	93.4	96.6	90.2
85°	0.0	3.2	9.7	22.5	35.4	35.4	32.2	32.2	22.5	22.5	22.5
87.5°	0.0	0.0	3.2	3.2	3.2	6.5	6.5	6.5	6.5	6.5	6.5
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°	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3	2907.3
2.5°	2933.2	2926.7	2839.7	2785.1	2756.0	2698.1	2662.7	2636.9	2617.6	2595.1	2598.3
5°	2971.8	2949.2	2804.3	2704.5	2585.4	2521.0	2466.2	2421.2	2392.2	2385.7	2372.9
7.5°	3081.3	2962.1	2743.2	2562.9	2411.6	2347.1	2298.9	2269.9	2282.7	2253.8	2276.3
10°	3164.9	2987.8	2669.1	2408.3	2257.0	2208.7	2182.9	2205.4	2237.6	2224.8	2208.7
12.5°	3268.0	3013.6	2550.0	2260.2	2118.6	2083.2	2128.2	2170.0	2234.5	2260.2	2228.0
15°	3383.8	3042.6	2398.6	2089.5	1999.4	2028.4	2105.7	2179.7	2244.1	2276.3	2295.6
17.5°	3525.6	3032.9	2250.5	1954.3	1886.7	1970.5	2063.8	2131.4	2228.0	2276.3	2263.5
20°	3657.5	3000.8	2086.4	1819.1	1822.4	1899.6	1976.9	2086.4	2137.8	2202.2	2179.7
22.5°	3783.2	2942.7	1915.7	1725.7	1725.7	1844.9	1883.5	1954.3	1999.4	2031.6	2028.4
25°	3960.2	2833.3	1774.0	1635.6	1674.3	1751.5	1783.7	1806.2	1787.0	1812.7	1815.9
27.5°	4085.7	2720.6	1658.1	1555.1	1625.9	1683.9	1674.3	1661.3	1616.2	1580.8	1603.4
30°	4221.0	2588.6	1558.3	1500.3	1539.0	1590.5	1551.9	1513.2	1442.4	1384.5	1387.6
32.5°	4414.2	2527.5	1471.4	1436.0	1487.5	1494.0	1452.1	1394.1	1323.3	1268.6	1265.4
35°	4774.8	2488.8	1397.3	1394.1	1403.8	1407.0	1365.1	1294.3	1265.4	1220.3	1236.4
37.5°	5135.4	2469.5	1345.9	1333.0	1329.7	1333.0	1284.6	1217.0	1271.8	1268.6	1275.0
40°	5595.8	2556.4	1271.8	1255.7	1258.9	1258.9	1197.8	1178.4	1275.0	1284.6	1287.9
42.5°	6062.6	2665.9	1223.5	1171.9	1184.8	1184.8	1152.7	1130.1	1197.8	1133.3	1123.7
45°	6468.3	2826.9	1171.9	1088.3	1120.5	1136.5	1126.9	1088.3	1046.4	937.0	937.0
47.5°	6600.3	2968.6	1110.8	1007.8	1033.5	1104.3	1075.4	994.9	920.8	830.7	824.3
50°	6832.1	3123.1	1062.5	914.4	969.1	1056.0	1027.1	946.5	862.9	798.4	801.7
52.5°	7070.4	3300.2	972.4	804.9	872.5	1017.4	1017.4	927.3	798.4	753.4	747.0
55°	7427.8	3293.7	811.4	660.0	779.2	959.5	975.6	830.7	714.8	679.4	679.4
56°	7479.3	3145.6	730.8	618.1	737.3	943.3	946.5	804.9	682.6	644.0	644.0
57.5°	7092.9	2839.7	640.7	566.7	685.8	914.4	917.6	782.4	656.8	602.1	595.7
60°	5457.3	1922.1	534.5	505.5	621.4	824.3	840.3	711.6	576.3	534.5	531.3
62.5°	3081.3	1065.7	470.0	457.2	534.5	701.9	750.2	621.4	489.4	466.8	473.3
65°	1407.0	586.0	396.0	370.3	431.4	540.9	605.3	511.9	402.4	376.7	376.7
67.5°	515.1	399.2	338.1	293.0	302.7	350.9	392.8	331.6	267.3	228.6	238.3
70°	367.0	334.9	296.2	254.3	235.1	228.6	225.4	186.7	132.0	103.0	109.5
72.5°	296.2	276.9	247.9	215.7	183.5	154.6	132.0	96.6	61.1	41.9	38.6
75°	212.5	202.8	180.3	154.6	128.8	109.5	90.2	61.1	32.2	16.1	16.1
77.5°	109.5	109.5	106.2	96.6	80.5	64.4	51.6	35.4	19.3	6.5	6.5
80°	83.7	90.2	93.4	83.7	74.1	57.9	41.9	25.7	12.9	3.2	3.2
82.5°	80.5	93.4	99.8	87.0	74.1	54.7	41.9	25.7	12.9	3.2	3.2
85°	19.3	19.3	29.0	32.2	41.9	45.1	35.4	22.5	9.7	3.2	3.2
87.5°	6.5	6.5	6.5	6.5	6.5	6.5	3.2	3.2	3.2	3.2	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)