

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: P532607

Luminaire Tested: **GALN-SA8A-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532607  
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-SA8A-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA 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: 18218 lumens  
Efficiency: N/A  
Efficacy: 74.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

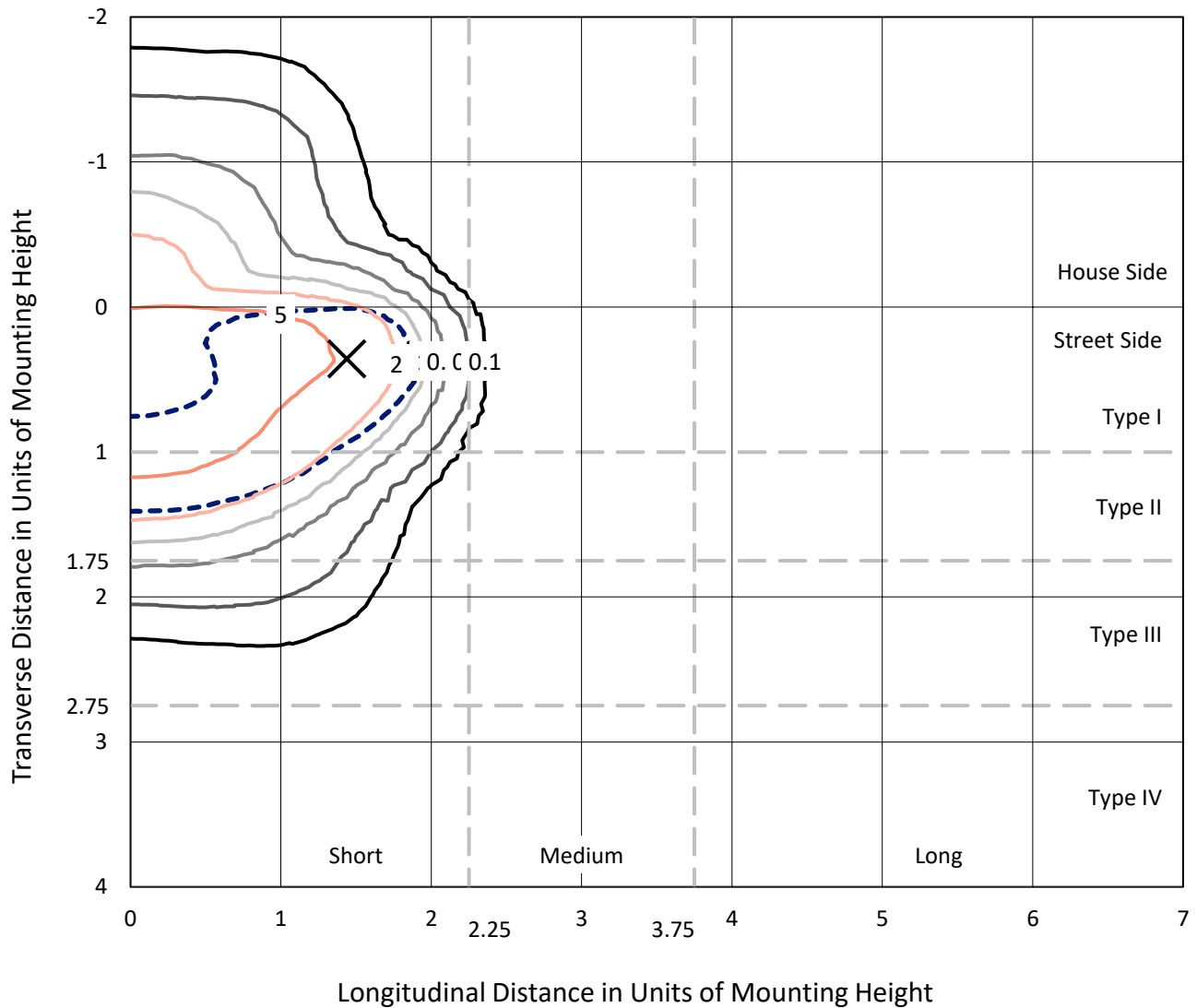
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

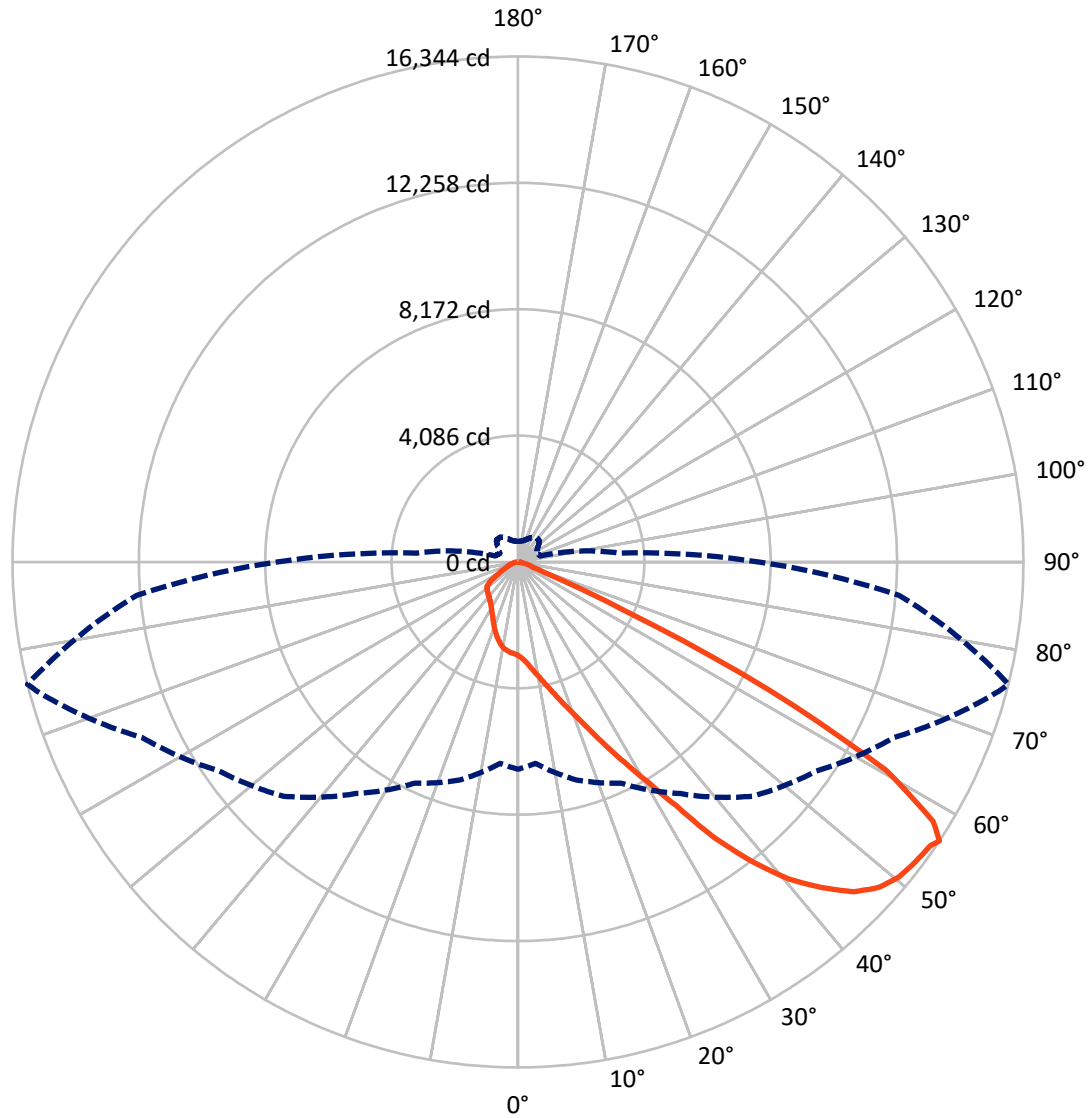
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	2862.0	0.0	2862.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	15356.0	0.0	15356.0
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	18218.0	0.0	18218.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.5	1.7
10°-20°	981.4	5.4
20°-30°	1779.5	9.8
30°-40°	3068.8	16.8
40°-50°	4985.4	27.4
50°-60°	5254.8	28.8
60°-70°	1605.6	8.8
70°-80°	205.8	1.1
80°-90°	31.3	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°	18218.0	100.0
0°-180°	18218.0	100.0

**Coefficient of Utilization**

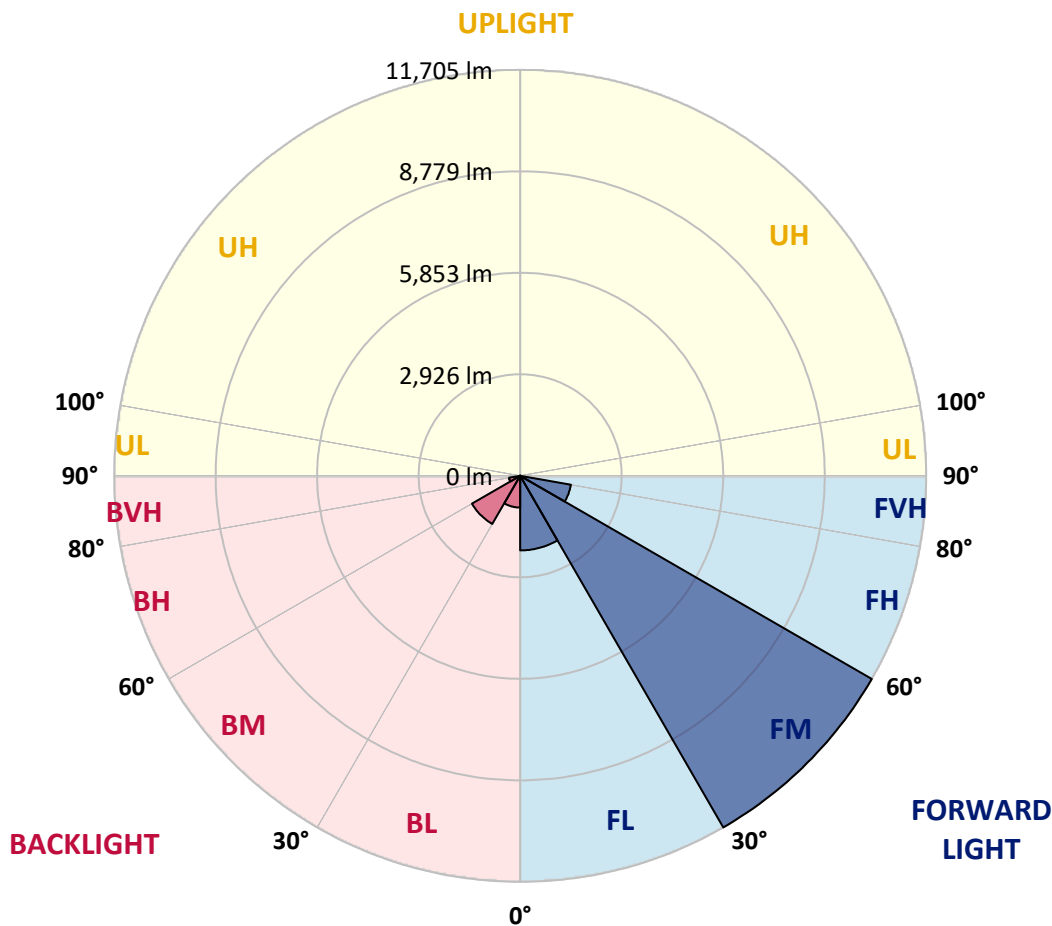


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2150.8	11.8			
FM (30°-60°)	11705.0	64.2			
FH (60°-80°)	1484.9	8.2			G1/1800
FVH (80°-90°)	15.3	0.1			G1/100
BL (0°-30°)	915.5	5.0	B2/1000		
BM (30°-60°)	1604.0	8.8	B2/2500		
BH (60°-80°)	326.5	1.8	B1/500		G1/500
BVH (80°-90°)	16.0	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°	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4
2.5°	3492.5	3411.9	3415.2	3408.5	3398.5	3361.5	3250.7	3233.9	3160.0	3139.9	3072.7
5°	3912.2	3841.7	3882.0	3821.6	3764.5	3730.9	3549.6	3465.6	3348.1	3304.4	3210.4
7.5°	4174.2	4140.6	4127.2	4130.5	4076.8	3992.8	3912.2	3727.6	3569.7	3536.1	3338.0
10°	4301.8	4281.6	4301.8	4291.7	4315.2	4325.3	4184.3	4073.4	3841.7	3784.6	3475.7
12.5°	4332.0	4372.3	4389.1	4432.8	4489.9	4587.2	4577.2	4426.0	4117.1	4080.2	3687.3
15°	4405.9	4439.5	4422.7	4493.2	4600.7	4765.2	4852.5	4829.0	4496.6	4429.4	3932.4
17.5°	4473.1	4412.6	4469.7	4610.7	4718.2	4970.1	5181.6	5279.0	4909.6	4832.4	4157.4
20°	4563.7	4546.9	4536.9	4607.4	4798.8	5134.6	5554.4	5732.4	5373.0	5292.5	4479.8
22.5°	4839.1	4842.5	4835.7	4731.6	4869.3	5248.8	5880.1	6320.0	5927.1	5860.0	4845.8
25°	5201.8	5158.1	5124.5	5040.6	5023.8	5352.9	6209.2	7038.7	6592.1	6545.0	5242.1
27.5°	5584.6	5584.6	5483.9	5406.6	5299.2	5611.5	6511.5	7737.2	7394.7	7330.9	5588.0
30°	6001.0	6024.5	6011.1	5846.5	5779.4	5893.6	6820.4	8630.5	8314.8	8234.2	6158.9
32.5°	6615.6	6565.2	6622.3	6484.6	6286.5	6387.2	7307.3	9429.7	9510.3	9396.1	6907.7
35°	7428.2	7398.0	7361.1	7136.1	6901.0	6981.6	7995.8	10413.6	11011.4	10954.3	7663.3
37.5°	8157.0	8140.2	8109.9	7955.5	7683.5	7780.8	8778.2	11437.9	12475.5	12287.5	8731.2
40°	8922.6	9013.3	8915.9	8778.2	8529.7	8744.6	9698.4	12045.7	13708.0	13479.6	9547.2
42.5°	9960.3	9889.8	9933.4	9681.6	9547.2	9782.3	10621.8	12653.5	14665.1	14393.1	10413.6
45°	11065.1	11068.5	10950.9	10870.3	10521.1	10776.3	11189.4	12989.3	15427.4	15215.8	11068.5
47.5°	11773.7	11770.3	11897.9	12025.6	11666.2	11414.4	11575.6	13308.4	15820.3	15722.9	11306.9
50°	11662.9	11696.5	11861.0	12337.9	12525.9	12186.7	11938.2	13214.3	15998.2	15988.2	11511.8
52.5°	10145.0	10255.8	10531.2	11219.6	12166.6	12586.4	12317.7	13389.0	16085.6	16102.4	11817.3
55°	7723.8	7784.2	8308.1	9144.3	10192.0	11629.3	12166.6	13526.6	16152.7	16182.9	12186.7
56°	6699.5	6538.3	7293.9	7888.3	9140.9	10712.5	11783.8	13419.2	16112.4	16344.1	12371.4
57.5°	5057.4	4949.9	5561.1	6303.3	7508.8	9167.8	10595.0	12912.1	15840.4	15837.1	12106.1
60°	3076.1	2968.6	3438.8	3875.3	4550.3	5645.1	7159.6	10282.7	13392.3	13674.4	9802.5
62.5°	1830.2	1897.4	2360.8	2626.1	2844.4	2958.5	3704.0	6111.8	8936.0	9137.5	6081.6
65°	1219.0	1242.5	1591.8	2028.3	2125.7	1692.5	1507.8	2475.0	3875.3	3751.1	2508.5
67.5°	752.2	806.0	1067.9	1524.6	1689.2	1235.8	715.3	923.5	1067.9	1067.9	725.4
70°	456.7	483.6	711.9	1037.7	1158.6	795.9	520.5	520.5	513.8	503.7	433.2
72.5°	218.3	235.1	362.7	533.9	544.0	419.8	403.0	439.9	429.8	426.5	359.3
75°	94.0	100.7	127.6	167.9	191.4	178.0	245.1	315.7	325.7	315.7	258.6
77.5°	30.2	33.6	47.0	60.4	63.8	77.2	104.1	131.0	151.1	141.0	127.6
80°	3.4	6.7	13.4	30.2	47.0	60.4	77.2	87.3	97.4	97.4	90.7
82.5°	3.4	3.4	13.4	26.9	43.7	57.1	73.9	84.0	97.4	100.7	94.0
85°	0.0	3.4	10.1	23.5	36.9	36.9	33.6	33.6	23.5	23.5	23.5
87.5°	0.0	0.0	3.4	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7
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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CATALOG NUMBER: GALN-SA8A-727-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4	3032.4
2.5°	3059.3	3052.6	2961.9	2904.8	2874.6	2814.1	2777.2	2750.3	2730.2	2706.7	2710.0
5°	3099.6	3076.1	2925.0	2820.8	2696.6	2629.4	2572.3	2525.3	2495.1	2488.4	2475.0
7.5°	3213.8	3089.5	2861.1	2673.1	2515.3	2448.1	2397.7	2367.5	2380.9	2350.7	2374.2
10°	3301.1	3116.4	2783.9	2511.9	2354.1	2303.7	2276.8	2300.3	2333.9	2320.5	2303.7
12.5°	3408.5	3143.2	2659.7	2357.4	2209.7	2172.7	2219.7	2263.4	2330.6	2357.4	2323.8
15°	3529.4	3173.5	2501.8	2179.4	2085.4	2115.6	2196.2	2273.5	2340.6	2374.2	2394.4
17.5°	3677.2	3163.4	2347.3	2038.4	1967.9	2055.2	2152.6	2223.1	2323.8	2374.2	2360.8
20°	3814.9	3129.8	2176.1	1897.4	1900.7	1981.3	2061.9	2176.1	2229.8	2297.0	2273.5
22.5°	3945.8	3069.4	1998.1	1800.0	1800.0	1924.2	1964.5	2038.4	2085.4	2119.0	2115.6
25°	4130.5	2955.2	1850.3	1705.9	1746.2	1826.8	1860.4	1883.9	1863.8	1890.6	1894.0
27.5°	4261.5	2837.6	1729.4	1622.0	1695.9	1756.3	1746.2	1732.8	1685.8	1648.9	1672.4
30°	4402.5	2700.0	1625.3	1564.9	1605.2	1658.9	1618.6	1578.3	1504.5	1444.0	1447.4
32.5°	4604.0	2636.2	1534.7	1497.7	1551.5	1558.2	1514.5	1454.1	1380.2	1323.1	1319.8
35°	4980.1	2595.9	1457.4	1454.1	1464.2	1467.5	1423.9	1350.0	1319.8	1272.7	1289.5
37.5°	5356.3	2575.7	1403.7	1390.3	1386.9	1390.3	1339.9	1269.4	1326.5	1323.1	1329.8
40°	5836.5	2666.4	1326.5	1309.7	1313.0	1313.0	1249.2	1229.1	1329.8	1339.9	1343.3
42.5°	6323.4	2780.6	1276.1	1222.4	1235.8	1235.8	1202.2	1178.7	1249.2	1182.1	1172.0
45°	6746.5	2948.5	1222.4	1135.1	1168.6	1185.4	1175.4	1135.1	1091.4	977.2	977.2
47.5°	6884.2	3096.2	1158.6	1051.1	1078.0	1151.8	1121.6	1037.7	960.4	866.4	859.7
50°	7126.0	3257.4	1108.2	953.7	1010.8	1101.5	1071.3	987.3	900.0	832.8	836.2
52.5°	7374.5	3442.1	1014.2	839.5	910.1	1061.2	1061.2	967.1	832.8	785.8	779.1
55°	7747.3	3435.4	846.3	688.4	812.7	1000.7	1017.5	866.4	745.5	708.6	708.6
56°	7801.0	3280.9	762.3	644.8	769.0	983.9	987.3	839.5	711.9	671.6	671.6
57.5°	7398.0	2961.9	668.3	591.0	715.3	953.7	957.1	816.0	685.1	628.0	621.3
60°	5692.1	2004.8	557.5	527.2	648.1	859.7	876.5	742.2	601.1	557.5	554.1
62.5°	3213.8	1111.5	490.3	476.9	557.5	732.1	782.4	648.1	510.4	486.9	493.6
65°	1467.5	611.2	413.1	386.2	450.0	564.2	631.3	533.9	419.8	392.9	392.9
67.5°	537.3	416.4	352.6	305.6	315.7	366.0	409.7	345.9	278.7	238.4	248.5
70°	382.8	349.2	309.0	265.3	245.1	238.4	235.1	194.8	137.7	107.5	114.2
72.5°	309.0	288.8	258.6	225.0	191.4	161.2	137.7	100.7	63.8	43.7	40.3
75°	221.6	211.6	188.1	161.2	134.3	114.2	94.0	63.8	33.6	16.8	16.8
77.5°	114.2	114.2	110.8	100.7	84.0	67.2	53.7	36.9	20.1	6.7	6.7
80°	87.3	94.0	97.4	87.3	77.2	60.4	43.7	26.9	13.4	3.4	3.4
82.5°	84.0	97.4	104.1	90.7	77.2	57.1	43.7	26.9	13.4	3.4	3.4
85°	20.1	20.1	30.2	33.6	43.7	47.0	36.9	23.5	10.1	3.4	3.4
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	3.4	3.4	3.4	3.4	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)