

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: P530658

Luminaire Tested: **GALN-SA5D-827-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530658  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5D-827-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23888 lumens  
Efficiency: N/A  
Efficacy: 77.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

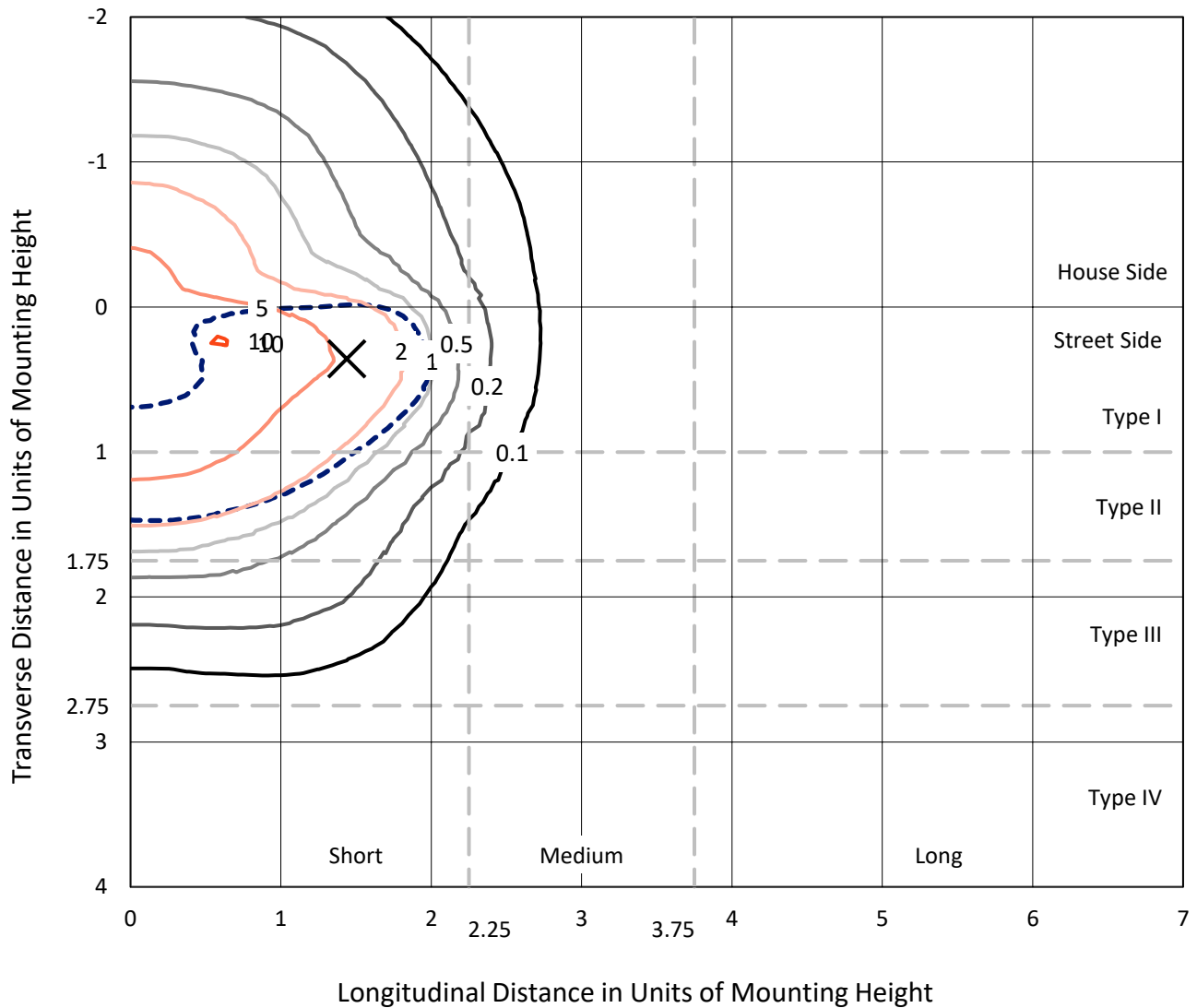
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

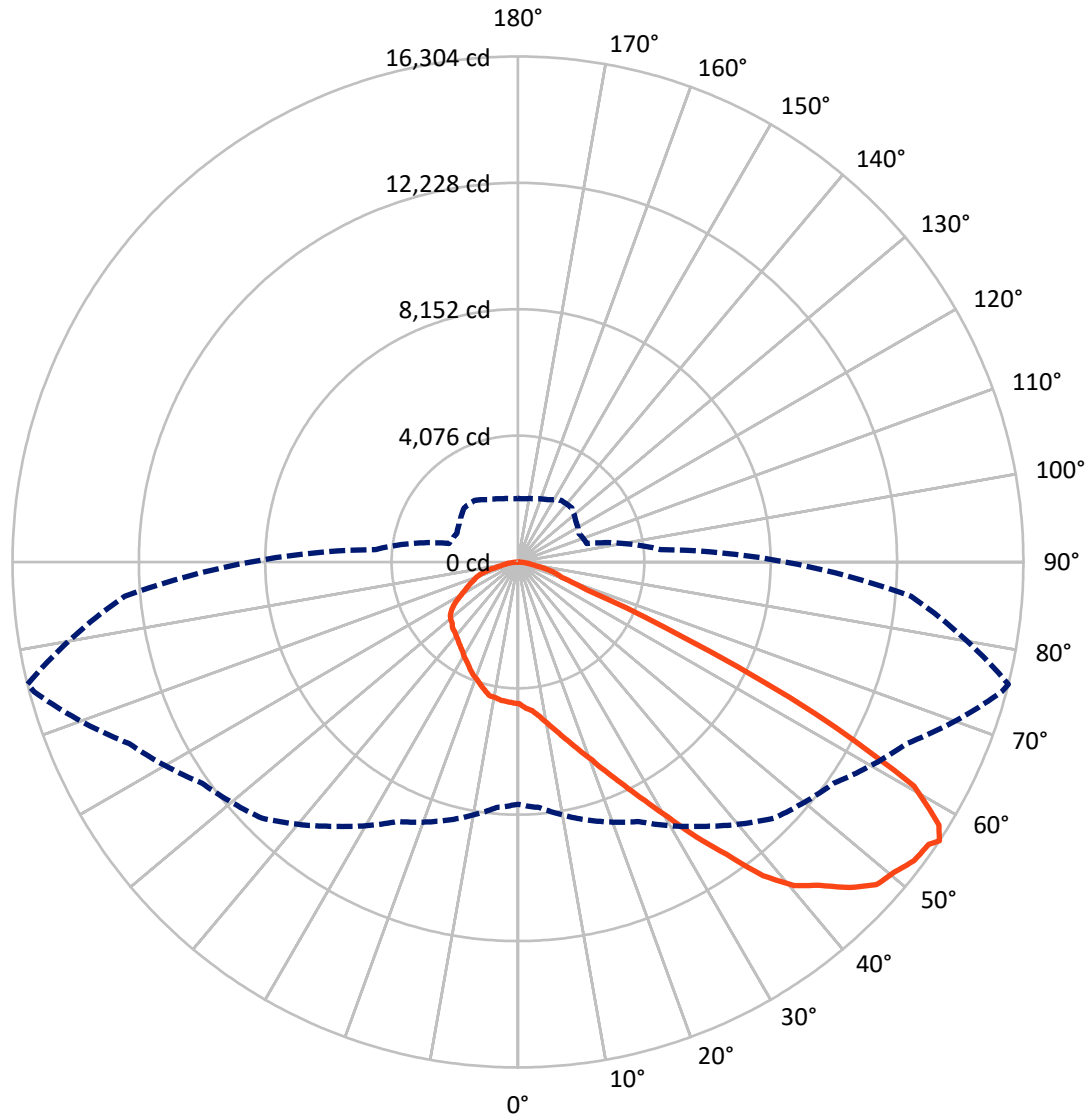
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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	6422.8	0.0	6422.8
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	17465.2	0.0	17465.2
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	23888.0	0.0	23888.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	453.3	1.9
10°-20°	1423.9	6.0
20°-30°	2490.2	10.4
30°-40°	3898.9	16.3
40°-50°	5671.8	23.7
50°-60°	6233.6	26.1
60°-70°	2782.4	11.6
70°-80°	803.7	3.4
80°-90°	130.4	0.5
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°	23888.0	100.0
0°-180°	23888.0	100.0

**Coefficient of Utilization**



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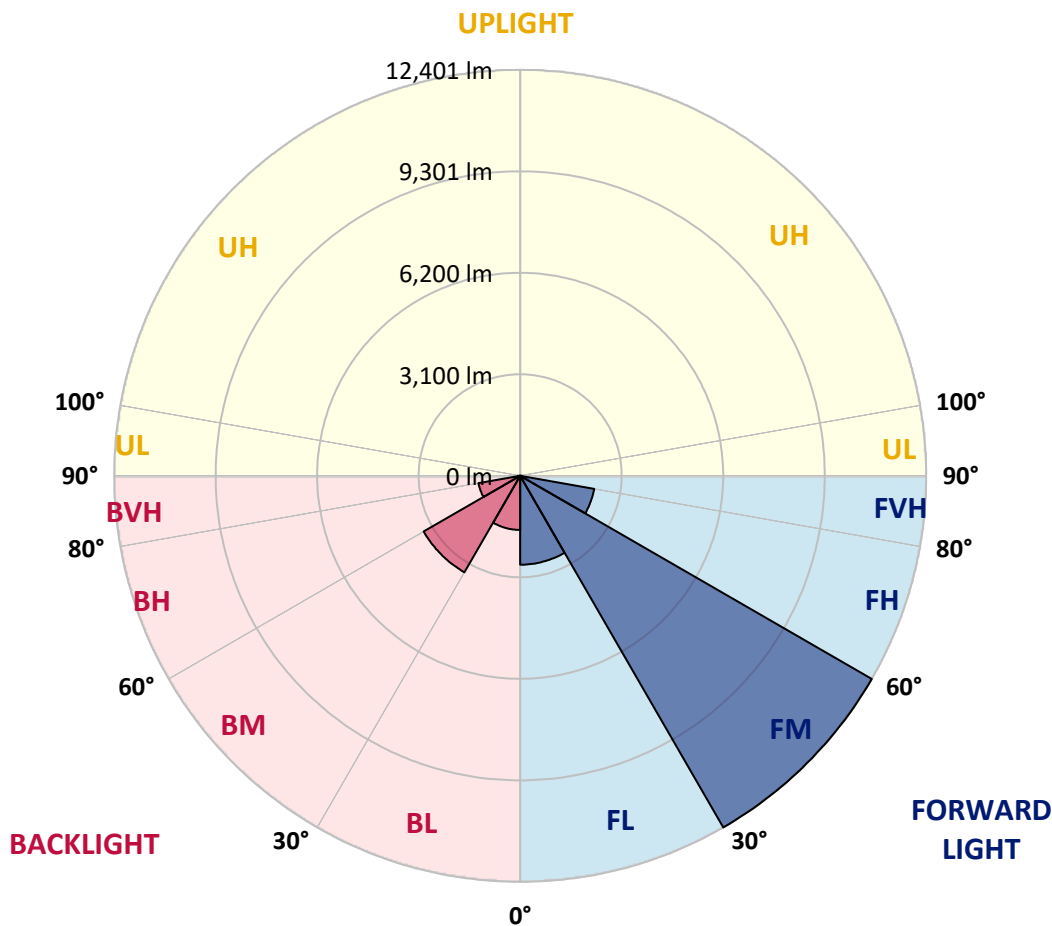
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2714.6	11.4			
FM (30°-60°)	12400.7	51.9			
FH (60°-80°)	2293.8	9.6			G2/5000
FVH (80°-90°)	56.1	0.2			G1/100
BL (0°-30°)	1652.7	6.9	B3/2500		
BM (30°-60°)	3403.5	14.2	B3/5000		
BH (60°-80°)	1292.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	74.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7
2.5°	5035.2	4954.6	4948.5	4926.8	4939.2	4883.4	4824.6	4747.2	4666.7	4716.2	4598.5
5°	5388.2	5279.8	5323.1	5248.8	5258.1	5183.8	5063.0	4973.2	4874.1	4815.3	4731.7
7.5°	5512.0	5521.3	5552.3	5539.9	5478.0	5478.0	5397.5	5239.5	5066.1	5032.1	4892.7
10°	5679.3	5682.4	5648.3	5657.6	5744.3	5704.0	5632.8	5564.7	5341.7	5301.5	5053.7
12.5°	5738.1	5682.4	5738.1	5787.6	5889.8	5945.6	5930.1	5880.5	5642.1	5614.2	5251.9
15°	5747.4	5713.3	5759.8	5871.3	5961.1	6196.4	6314.1	6280.0	5964.2	5967.3	5474.9
17.5°	5704.0	5750.5	5769.1	5865.1	6072.5	6292.4	6633.0	6679.5	6419.4	6379.1	5756.7
20°	5762.9	5728.8	5753.6	5840.3	6115.9	6459.6	6905.5	7212.1	6846.7	6818.8	6047.8
22.5°	5988.9	5942.5	5936.3	5992.0	6190.2	6546.3	7193.5	7744.7	7366.9	7382.4	6410.1
25°	6165.4	6190.2	6168.5	6165.4	6289.3	6676.4	7574.4	8379.5	8073.0	7983.2	6837.4
27.5°	6468.9	6527.7	6484.4	6543.2	6515.4	6871.5	7846.9	9082.5	8834.8	8714.0	7224.5
30°	6890.1	6921.0	6880.8	6880.8	6797.2	7144.0	8094.7	9816.4	9714.2	9550.1	7679.7
32.5°	7444.4	7490.8	7410.3	7363.8	7351.5	7549.6	8540.6	10541.0	10714.4	10575.1	8283.6
35°	8178.3	8150.4	8054.4	8011.0	7843.8	8172.1	9203.3	11374.0	11829.2	11581.5	9014.4
37.5°	8825.5	8782.1	8775.9	8534.4	8574.6	8844.0	9766.8	12005.7	12910.0	12838.7	9785.4
40°	9429.3	9469.6	9534.6	9398.3	9336.4	9633.7	10423.3	12488.8	13749.1	13721.3	10380.0
42.5°	10076.5	10039.4	10153.9	10039.4	9946.5	10367.6	11135.6	12823.2	14486.1	14257.0	11002.4
45°	11014.8	10897.1	10937.4	10946.7	10878.5	11033.4	11429.8	13064.8	15003.3	14978.5	11457.6
47.5°	11798.3	11801.4	11733.2	11680.6	11473.1	11627.9	11758.0	13216.5	15597.8	15557.6	11634.1
50°	12089.3	12049.1	12247.3	12361.8	12374.2	12058.4	12015.0	13300.1	15910.6	15734.1	11810.6
52.5°	11042.7	11079.8	11392.6	12073.9	12467.1	12501.2	12315.4	13473.5	16037.6	16000.4	11953.1
55°	8887.4	9067.0	9581.0	10367.6	11299.7	12324.7	12640.5	13653.1	16105.7	16074.7	12584.8
56°	7812.9	7952.2	8621.1	9237.3	10407.9	11683.7	12436.2	13845.1	16158.3	16303.9	12733.4
57.5°	6289.3	6450.3	6930.3	7630.2	9011.3	10463.6	11872.6	13609.8	15954.0	16009.7	12841.8
60°	3932.8	3948.2	4524.2	4985.6	5958.0	7376.2	9060.8	11841.6	14764.8	14684.3	11535.0
62.5°	2579.5	2582.6	3105.9	3483.7	3926.6	4251.7	5332.4	7853.1	10894.0	10751.6	8212.3
65°	1811.5	1851.8	2257.5	2762.2	2941.8	2771.5	2737.4	4140.2	6084.9	5880.5	4412.7
67.5°	1325.4	1328.5	1687.7	2229.6	2489.7	2108.8	1712.4	2022.1	2409.2	2403.0	2043.8
70°	876.4	913.5	1189.1	1666.0	1963.3	1693.9	1399.7	1446.1	1532.8	1532.8	1520.5
72.5°	510.9	545.0	727.7	1056.0	1102.4	1059.1	1108.6	1238.7	1294.4	1291.3	1275.8
75°	291.1	306.6	346.8	439.7	548.1	647.2	814.4	938.3	994.0	1028.1	987.8
77.5°	170.3	179.6	204.4	250.8	284.9	349.9	442.8	529.5	603.8	594.6	600.8
80°	89.8	89.8	114.6	148.6	198.2	247.7	294.2	343.7	384.0	393.3	402.6
82.5°	52.6	55.7	74.3	108.4	142.4	176.5	226.1	260.1	297.3	300.4	306.6
85°	27.9	31.0	46.4	71.2	96.0	108.4	111.5	105.3	114.6	108.4	123.9
87.5°	9.3	9.3	15.5	12.4	12.4	15.5	18.6	18.6	24.8	24.8	24.8
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°	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7	4570.7
2.5°	4595.4	4595.4	4542.8	4443.7	4428.2	4388.0	4350.8	4347.7	4319.8	4295.1	4282.7
5°	4682.1	4586.1	4508.7	4418.9	4313.6	4264.1	4208.4	4146.4	4121.6	4146.4	4143.3
7.5°	4781.2	4700.7	4468.5	4301.3	4180.5	4130.9	4069.0	4004.0	4010.2	4010.2	3966.8
10°	4877.2	4768.8	4397.2	4183.6	4007.1	3969.9	3935.8	3960.6	3991.6	3997.8	3969.9
12.5°	5038.3	4793.6	4363.2	4065.9	3954.4	3873.9	3895.6	3963.7	4028.7	4010.2	4031.8
15°	5159.0	4815.3	4208.4	3945.1	3805.8	3842.9	3920.4	3966.8	4075.2	4062.8	4084.5
17.5°	5276.7	4827.7	4056.6	3784.1	3725.3	3827.5	3886.3	4019.5	4053.5	4127.8	4155.7
20°	5518.2	4852.5	3901.8	3685.0	3666.4	3784.1	3886.3	3948.2	4022.6	4087.6	4087.6
22.5°	5642.1	4840.1	3799.6	3555.0	3613.8	3688.1	3781.0	3886.3	3886.3	3948.2	3951.3
25°	5796.9	4790.5	3638.6	3493.0	3536.4	3607.6	3712.9	3675.7	3716.0	3716.0	3765.5
27.5°	5973.4	4685.2	3499.2	3381.5	3468.3	3545.7	3561.2	3536.4	3489.9	3483.7	3465.2
30°	6115.9	4555.2	3397.0	3344.4	3415.6	3459.0	3409.4	3356.8	3276.3	3270.1	3226.7
32.5°	6311.0	4394.2	3270.1	3251.5	3332.0	3335.1	3319.6	3239.1	3121.4	3071.9	3022.3
35°	6639.2	4301.3	3174.1	3201.9	3226.7	3217.4	3189.6	3102.8	2985.2	2963.5	2944.9
37.5°	6880.8	4233.1	3075.0	3109.0	3130.7	3143.1	3059.5	2963.5	2966.6	2923.2	2910.9
40°	7153.3	4189.8	2994.5	3009.9	3013.0	3053.3	2951.1	2904.7	2926.3	2898.5	2917.0
42.5°	7503.2	4202.2	2910.9	2898.5	2957.3	2941.8	2892.3	2830.3	2842.7	2759.1	2771.5
45°	7689.0	4285.8	2861.3	2805.6	2870.6	2867.5	2802.5	2743.6	2669.3	2508.3	2514.5
47.5°	7812.9	4307.4	2743.6	2706.5	2774.6	2814.9	2740.5	2604.3	2499.0	2384.4	2356.6
50°	7939.8	4347.7	2687.9	2610.5	2638.3	2734.3	2641.4	2511.4	2409.2	2307.0	2322.5
52.5°	8051.3	4425.1	2579.5	2464.9	2514.5	2619.8	2570.2	2412.3	2300.8	2217.2	2192.4
55°	8546.8	4598.5	2396.8	2248.2	2365.8	2499.0	2471.1	2279.1	2158.4	2115.0	2108.8
56°	8624.2	4604.7	2300.8	2173.9	2282.2	2458.7	2424.7	2220.3	2111.9	2043.8	2046.9
57.5°	8636.6	4530.4	2164.6	2105.7	2198.6	2399.9	2356.6	2173.9	2025.2	1963.3	1944.7
60°	7599.2	3536.4	1994.2	1957.1	2065.5	2220.3	2204.8	2046.9	1879.7	1808.4	1842.5
62.5°	5180.7	2591.9	1861.1	1854.9	1910.6	2062.4	2022.1	1879.7	1740.3	1693.9	1672.2
65°	3016.1	1966.4	1731.0	1706.3	1752.7	1833.2	1861.1	1712.4	1566.9	1535.9	1526.7
67.5°	1780.6	1625.7	1563.8	1523.6	1508.1	1557.6	1579.3	1492.6	1347.0	1303.7	1340.9
70°	1489.5	1446.1	1449.2	1381.1	1343.9	1309.9	1291.3	1213.9	1093.1	1037.4	1021.9
72.5°	1285.1	1266.5	1254.1	1192.2	1158.1	1080.7	1000.2	922.8	833.0	786.6	789.6
75°	981.6	975.4	981.6	950.7	891.8	829.9	755.6	656.5	588.4	529.5	541.9
77.5°	585.3	603.8	613.1	600.8	576.0	520.2	473.8	408.8	343.7	297.3	291.1
80°	402.6	418.0	433.5	418.0	393.3	353.0	303.5	253.9	207.5	182.7	176.5
82.5°	306.6	322.1	331.3	315.9	284.9	241.5	207.5	173.4	136.3	111.5	105.3
85°	111.5	127.0	123.9	148.6	161.0	154.8	133.2	102.2	77.4	55.7	52.6
87.5°	31.0	27.9	31.0	31.0	31.0	27.9	24.8	24.8	24.8	15.5	12.4
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)