

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: P533309

Luminaire Tested: **GALN-SA8D-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533309
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-SA8D-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA 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: 30817 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

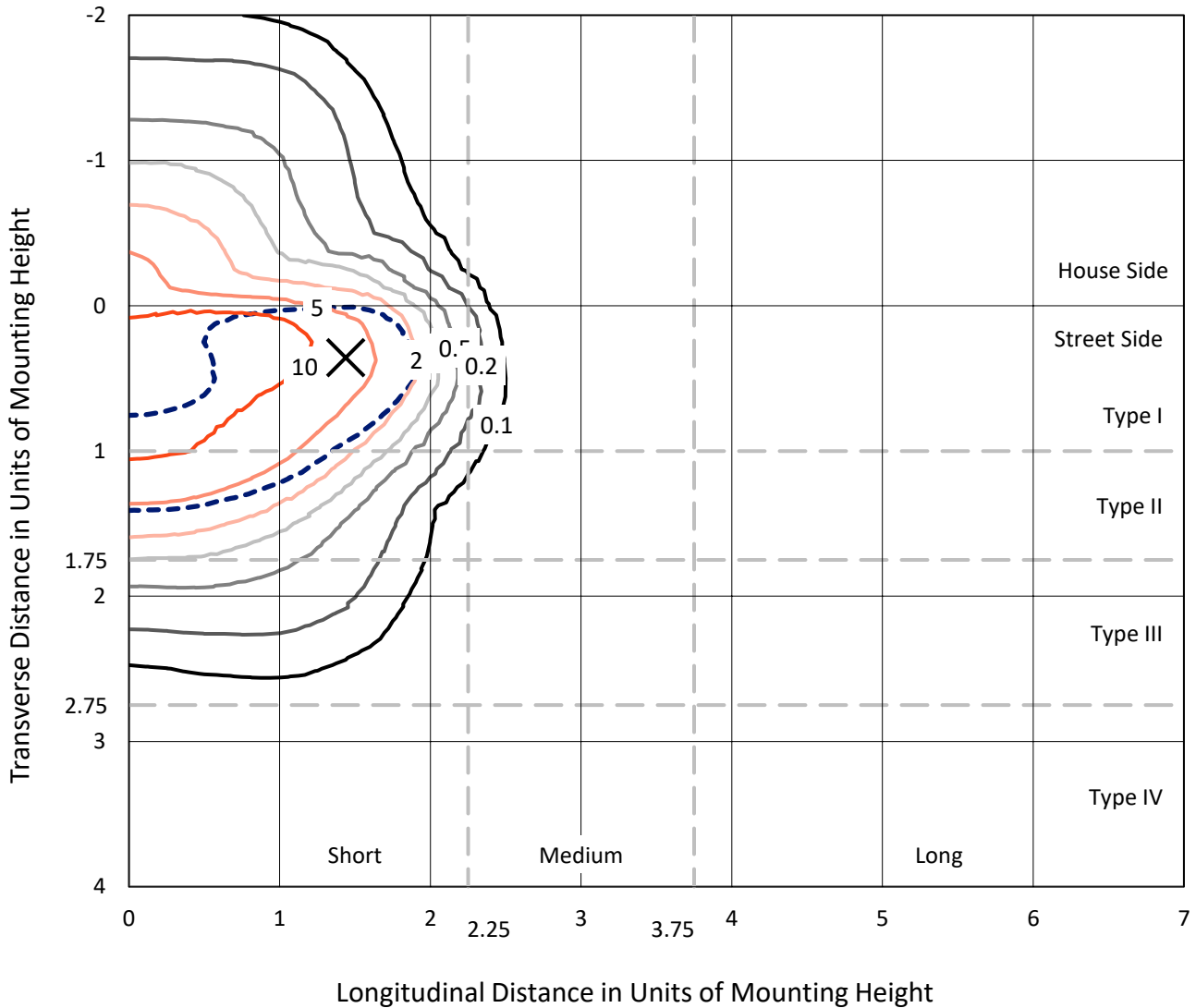
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

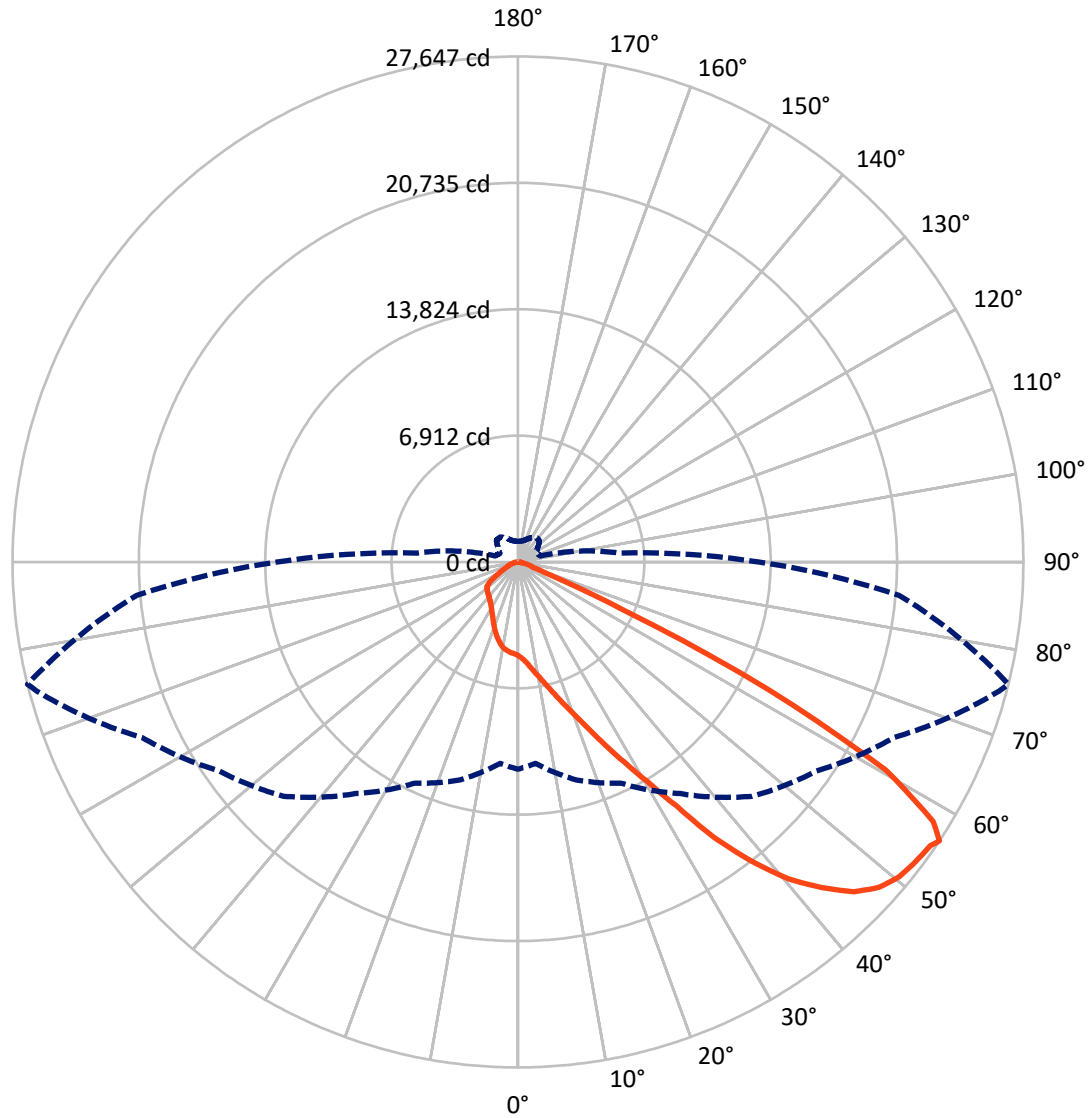
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 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
House Side	Lumens	4841.2	0.0	4841.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	25975.8	0.0	25975.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	30817.0	0.0	30817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	516.7	1.7
10°-20°	1660.1	5.4
20°-30°	3010.1	9.8
30°-40°	5191.1	16.8
40°-50°	8433.1	27.4
50°-60°	8888.8	28.8
60°-70°	2715.9	8.8
70°-80°	348.2	1.1
80°-90°	52.9	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°	30817.0	100.0
0°-180°	30817.0	100.0

Coefficient of Utilization

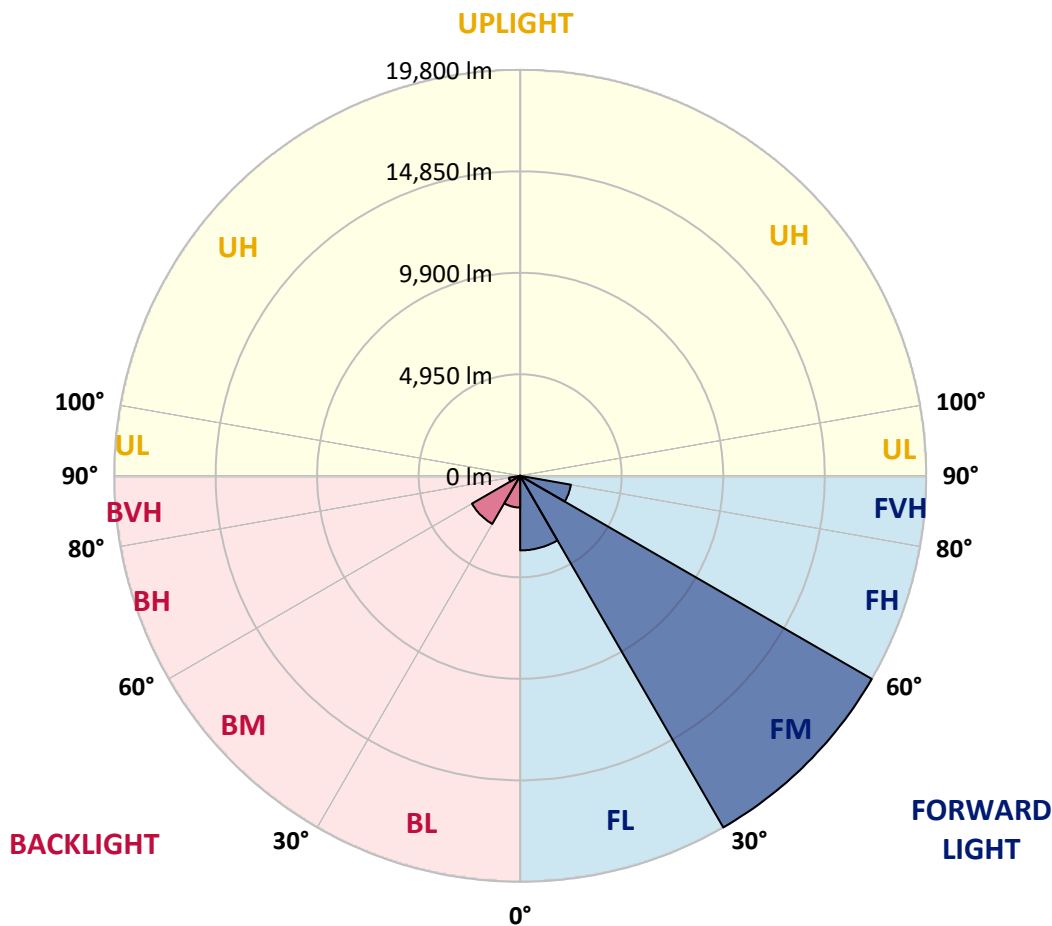


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3638.2	11.8			
FM (30°-60°)	19799.9	64.2			
FH (60°-80°)	2511.8	8.2			G2/5000
FVH (80°-90°)	25.9	0.1			G1/100
BL (0°-30°)	1548.7	5.0	B3/2500		
BM (30°-60°)	2713.2	8.8	B3/5000		
BH (60°-80°)	552.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	27.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5
2.5°	5907.8	5771.4	5777.1	5765.8	5748.7	5686.2	5498.8	5470.4	5345.4	5311.3	5197.7
5°	6617.8	6498.5	6566.7	6464.5	6367.9	6311.1	6004.3	5862.3	5663.5	5589.7	5430.6
7.5°	7060.9	7004.1	6981.4	6987.1	6896.2	6754.2	6617.8	6305.4	6038.4	5981.6	5646.5
10°	7276.8	7242.7	7276.8	7259.7	7299.5	7316.5	7078.0	6890.5	6498.5	6402.0	5879.4
12.5°	7327.9	7396.1	7424.5	7498.3	7594.9	7759.6	7742.6	7487.0	6964.4	6901.9	6237.2
15°	7452.9	7509.7	7481.3	7600.6	7782.4	8060.7	8208.4	8168.6	7606.3	7492.6	6651.9
17.5°	7566.5	7464.2	7560.8	7799.4	7981.2	8407.2	8765.1	8929.8	8305.0	8174.3	7032.5
20°	7719.9	7691.5	7674.4	7793.7	8117.5	8685.6	9395.6	9696.7	9088.9	8952.5	7577.9
22.5°	8185.7	8191.4	8180.0	8003.9	8236.8	8878.7	9946.6	10690.8	10026.2	9912.6	8197.0
25°	8799.2	8725.3	8668.5	8526.5	8498.1	9054.8	10503.3	11906.4	11150.9	11071.4	8867.3
27.5°	9446.8	9446.8	9276.3	9145.7	8963.9	9492.2	11014.6	13088.0	12508.6	12400.6	9452.4
30°	10151.1	10190.9	10168.2	9889.8	9776.2	9969.4	11537.2	14599.0	14065.0	13928.7	10418.1
32.5°	11190.7	11105.5	11202.0	10969.1	10634.0	10804.4	12360.9	15951.0	16087.3	15894.2	11684.9
35°	12565.4	12514.2	12451.8	12071.2	11673.5	11809.9	13525.4	17615.4	18626.5	18530.0	12963.0
37.5°	13798.1	13769.7	13718.5	13457.2	12997.1	13161.8	14849.0	19348.0	21103.2	20785.1	14769.4
40°	15093.2	15246.6	15081.9	14849.0	14428.6	14792.2	16405.4	20376.1	23188.0	22801.7	16149.8
42.5°	16848.5	16729.2	16803.1	16377.0	16149.8	16547.4	17967.6	21404.3	24807.0	24346.8	17615.4
45°	18717.4	18723.1	18524.3	18387.9	17797.2	18228.9	18927.6	21972.4	26096.4	25738.6	18723.1
47.5°	19916.0	19910.3	20126.2	20342.0	19734.2	19308.2	19580.9	22512.0	26761.1	26596.3	19126.4
50°	19728.5	19785.4	20063.7	20870.3	21188.4	20614.7	20194.4	22353.0	27062.1	27045.1	19472.9
52.5°	17160.9	17348.4	17814.2	18978.7	20580.6	21290.7	20836.3	22648.3	27209.8	27238.2	19989.9
55°	13065.3	13167.5	14053.7	15468.1	17240.5	19671.7	20580.6	22881.3	27323.4	27374.6	20614.7
56°	11332.7	11060.0	12338.2	13343.6	15462.5	18121.0	19933.0	22699.5	27255.3	27647.2	20927.1
57.5°	8554.9	8373.1	9407.0	10662.4	12701.7	15507.9	17922.1	21841.7	26795.2	26789.5	20478.4
60°	5203.4	5021.6	5816.9	6555.4	7697.1	9549.0	12110.9	17393.8	22654.0	23131.2	16581.5
62.5°	3095.9	3209.5	3993.4	4442.2	4811.4	5004.6	6265.6	10338.6	15115.9	15456.8	10287.5
65°	2062.0	2101.8	2692.6	3431.1	3595.8	2863.0	2550.6	4186.6	6555.4	6345.2	4243.4
67.5°	1272.4	1363.3	1806.4	2579.0	2857.3	2090.4	1210.0	1562.2	1806.4	1806.4	1227.0
70°	772.6	818.0	1204.3	1755.3	1959.8	1346.3	880.5	880.5	869.1	852.1	732.8
72.5°	369.2	397.6	613.5	903.2	920.2	710.1	681.7	744.2	727.1	721.4	607.8
75°	159.1	170.4	215.9	284.0	323.8	301.1	414.7	534.0	551.0	534.0	437.4
77.5°	51.1	56.8	79.5	102.2	107.9	130.7	176.1	221.5	255.6	238.6	215.9
80°	5.7	11.4	22.7	51.1	79.5	102.2	130.7	147.7	164.7	164.7	153.4
82.5°	5.7	5.7	22.7	45.4	73.8	96.6	125.0	142.0	164.7	170.4	159.1
85°	0.0	5.7	17.0	39.8	62.5	62.5	56.8	56.8	39.8	39.8	39.8
87.5°	0.0	0.0	5.7	5.7	5.7	11.4	11.4	11.4	11.4	11.4	11.4
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°	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5	5129.5
2.5°	5175.0	5163.6	5010.2	4913.7	4862.6	4760.3	4697.8	4652.4	4618.3	4578.5	4584.2
5°	5243.1	5203.4	4947.8	4771.7	4561.5	4447.9	4351.3	4271.8	4220.6	4209.3	4186.6
7.5°	5436.3	5226.1	4839.8	4521.7	4254.7	4141.1	4055.9	4004.8	4027.5	3976.4	4016.1
10°	5584.0	5271.5	4709.2	4249.1	3982.1	3896.9	3851.4	3891.2	3948.0	3925.3	3896.9
12.5°	5765.8	5317.0	4499.0	3987.7	3737.8	3675.3	3754.8	3828.7	3942.3	3987.7	3930.9
15°	5970.3	5368.1	4232.0	3686.7	3527.6	3578.7	3715.1	3845.7	3959.3	4016.1	4050.2
17.5°	6220.2	5351.1	3970.7	3448.1	3328.8	3476.5	3641.2	3760.5	3930.9	4016.1	3993.4
20°	6453.1	5294.3	3681.0	3209.5	3215.2	3351.5	3487.9	3681.0	3771.9	3885.5	3845.7
22.5°	6674.6	5192.0	3379.9	3044.8	3044.8	3255.0	3323.1	3448.1	3527.6	3584.4	3578.7
25°	6987.1	4998.9	3130.0	2885.7	2953.9	3090.2	3147.0	3186.8	3152.7	3198.1	3203.8
27.5°	7208.6	4800.1	2925.5	2743.7	2868.7	2970.9	2953.9	2931.2	2851.6	2789.1	2828.9
30°	7447.2	4567.2	2749.4	2647.1	2715.3	2806.2	2738.0	2669.9	2544.9	2442.6	2448.3
32.5°	7788.0	4459.2	2596.0	2533.5	2624.4	2635.8	2561.9	2459.7	2334.7	2238.1	2232.5
35°	8424.3	4391.1	2465.4	2459.7	2476.7	2482.4	2408.6	2283.6	2232.5	2152.9	2181.3
37.5°	9060.5	4357.0	2374.5	2351.7	2346.1	2351.7	2266.5	2147.2	2243.8	2238.1	2249.5
40°	9872.8	4510.4	2243.8	2215.4	2221.1	2221.1	2113.2	2079.1	2249.5	2266.5	2272.2
42.5°	10696.5	4703.5	2158.6	2067.7	2090.4	2090.4	2033.6	1993.9	2113.2	1999.6	1982.5
45°	11412.2	4987.5	2067.7	1920.0	1976.8	2005.2	1988.2	1920.0	1846.2	1653.0	1653.0
47.5°	11645.1	5237.5	1959.8	1778.0	1823.5	1948.4	1897.3	1755.3	1624.6	1465.6	1454.2
50°	12054.1	5510.1	1874.6	1613.3	1709.8	1863.2	1812.1	1670.1	1522.4	1408.8	1414.5
52.5°	12474.5	5822.6	1715.5	1420.1	1539.4	1795.1	1795.1	1636.0	1408.8	1329.2	1317.9
55°	13105.0	5811.2	1431.5	1164.5	1374.7	1692.8	1721.2	1465.6	1261.1	1198.6	1198.6
56°	13195.9	5549.9	1289.5	1090.7	1300.8	1664.4	1670.1	1420.1	1204.3	1136.1	1136.1
57.5°	12514.2	5010.2	1130.4	999.8	1210.0	1613.3	1619.0	1380.4	1158.8	1062.3	1050.9
60°	9628.5	3391.3	943.0	891.8	1096.3	1454.2	1482.6	1255.4	1016.8	943.0	937.3
62.5°	5436.3	1880.3	829.4	806.6	943.0	1238.4	1323.6	1096.3	863.4	823.7	835.0
65°	2482.4	1033.9	698.7	653.3	761.2	954.3	1067.9	903.2	710.1	664.6	664.6
67.5°	908.9	704.4	596.5	516.9	534.0	619.2	693.0	585.1	471.5	403.3	420.4
70°	647.6	590.8	522.6	448.8	414.7	403.3	397.6	329.5	232.9	181.8	193.1
72.5°	522.6	488.5	437.4	380.6	323.8	272.7	232.9	170.4	107.9	73.8	68.2
75°	374.9	357.9	318.1	272.7	227.2	193.1	159.1	107.9	56.8	28.4	28.4
77.5°	193.1	193.1	187.5	170.4	142.0	113.6	90.9	62.5	34.1	11.4	11.4
80°	147.7	159.1	164.7	147.7	130.7	102.2	73.8	45.4	22.7	5.7	5.7
82.5°	142.0	164.7	176.1	153.4	130.7	96.6	73.8	45.4	22.7	5.7	5.7
85°	34.1	34.1	51.1	56.8	73.8	79.5	62.5	39.8	17.0	5.7	5.7
87.5°	11.4	11.4	11.4	11.4	11.4	11.4	5.7	5.7	5.7	5.7	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)