

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: P531203

Luminaire Tested: **GALN-SA6C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531203
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-SA6C-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 20567 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

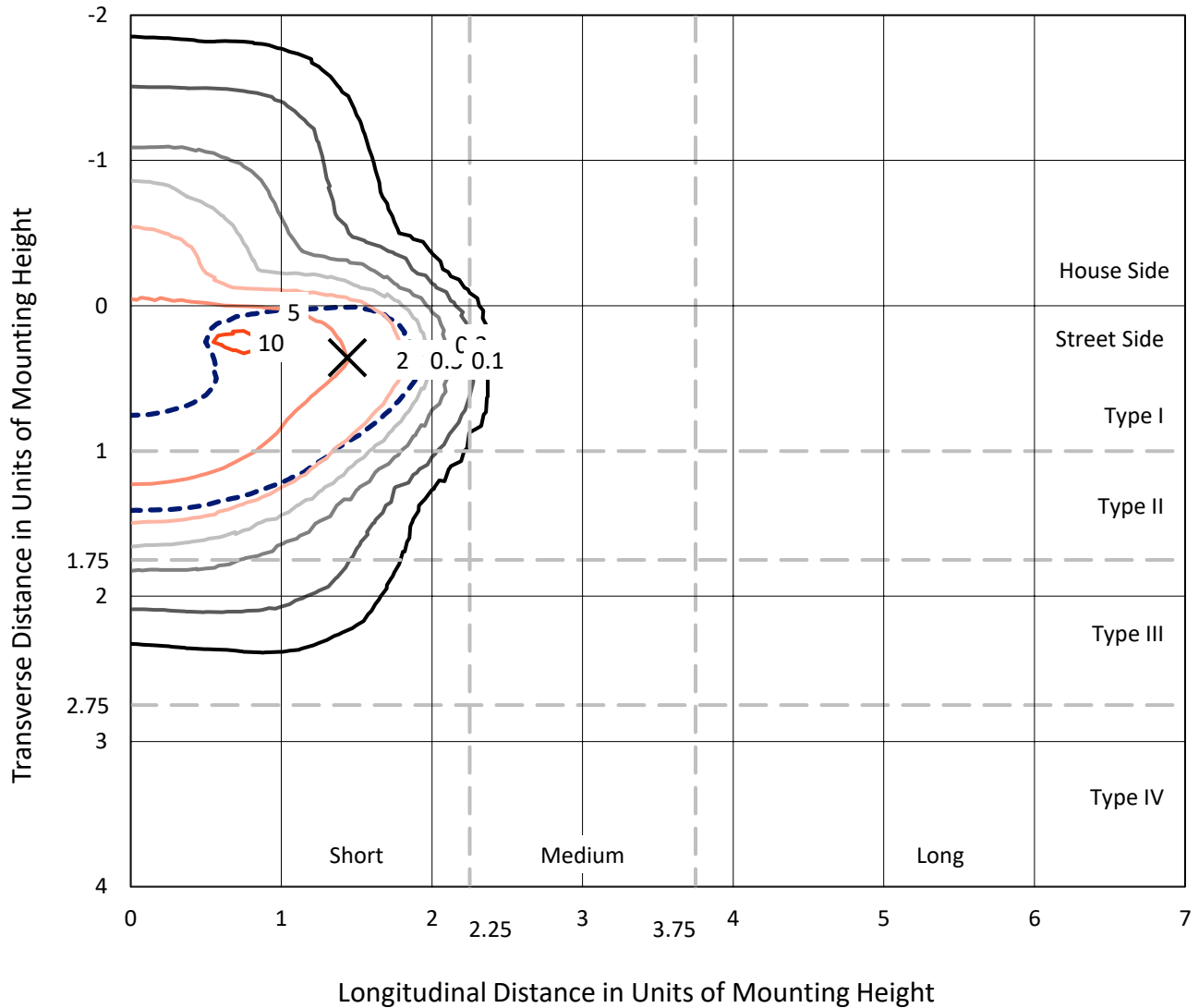
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531203
 CATALOG NUMBER: GALN-SA6C-727-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

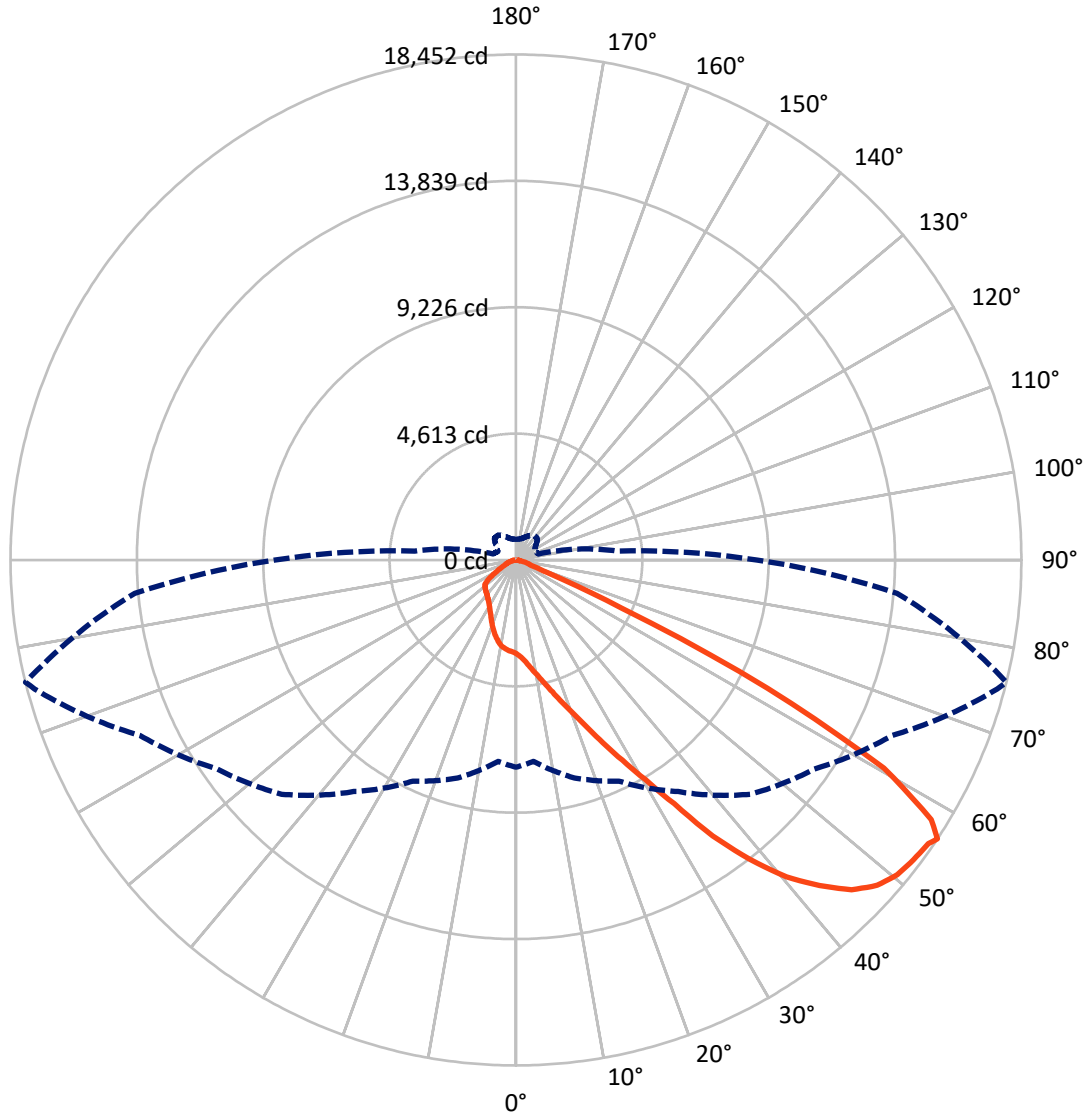
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

REPORT NUMBER: P531203
CATALOG NUMBER: GALN-SA6C-727-U-T2-GRSBK

Luminous Intensity Polar Plot



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

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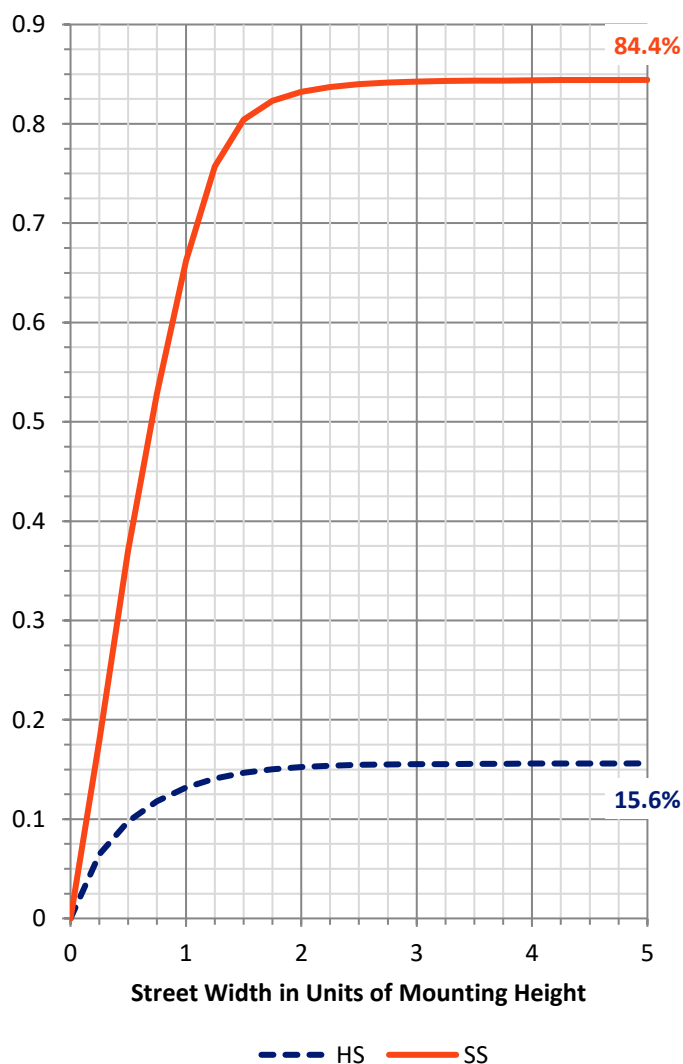
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3231.0	0.0	3231.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	17336.0	0.0	17336.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	20567.0	0.0	20567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.9	1.7
10°-20°	1107.9	5.4
20°-30°	2008.9	9.8
30°-40°	3464.5	16.8
40°-50°	5628.2	27.4
50°-60°	5932.3	28.8
60°-70°	1812.6	8.8
70°-80°	232.4	1.1
80°-90°	35.3	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°	20567.0	100.0
0°-180°	20567.0	100.0

Coefficient of Utilization

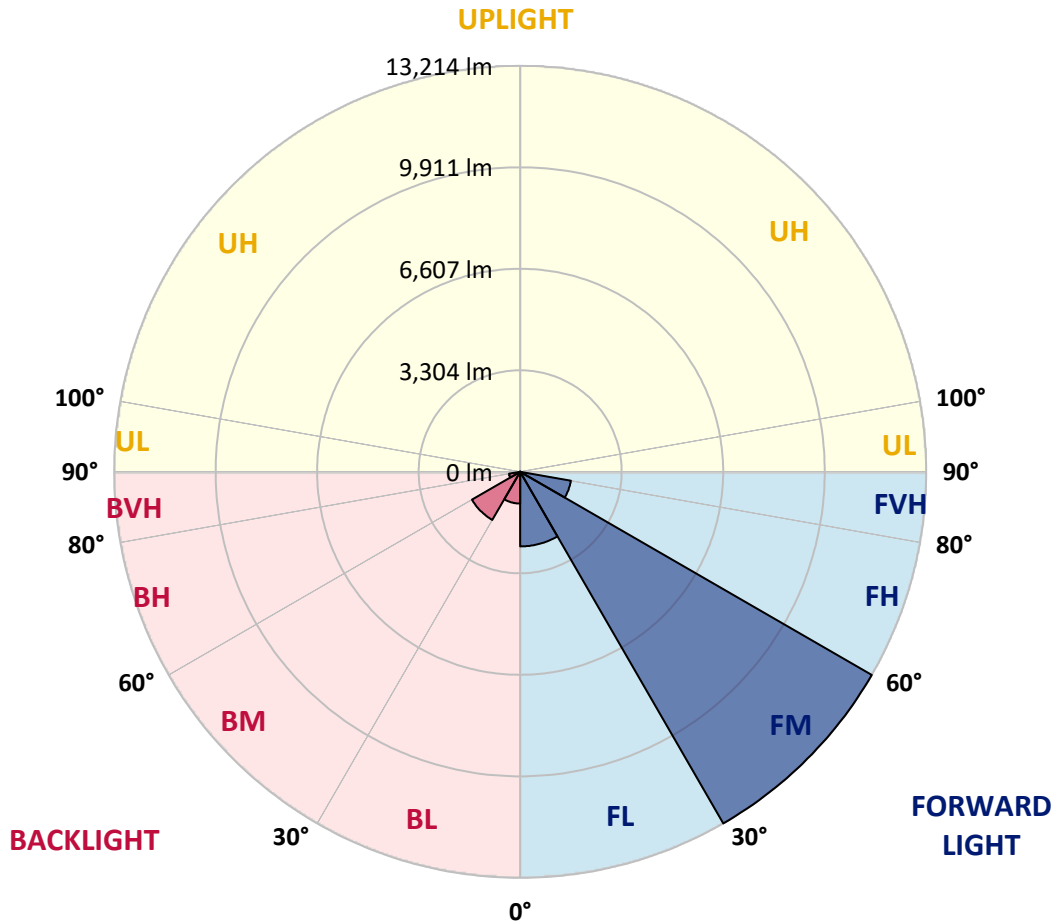


REPORT NUMBER: P531203
 CATALOG NUMBER: GALN-SA6C-727-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2428.1	11.8			
FM (30°-60°)	13214.3	64.2			
FH (60°-80°)	1676.3	8.2			G1/1800
FVH (80°-90°)	17.3	0.1			G1/100
BL (0°-30°)	1033.6	5.0	B3/2500		
BM (30°-60°)	1810.8	8.8	B2/2500		
BH (60°-80°)	368.6	1.8	B1/500		G1/500
BVH (80°-90°)	18.0	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-G1
 Type II Short





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CATALOG NUMBER: GALN-SA6C-727-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4
2.5°	3942.8	3851.8	3855.6	3848.0	3836.6	3794.9	3669.8	3650.9	3567.5	3544.7	3468.9
5°	4416.7	4337.1	4382.6	4314.3	4249.9	4212.0	4007.2	3912.5	3779.8	3730.5	3624.3
7.5°	4712.4	4674.5	4659.3	4663.1	4602.5	4507.7	4416.7	4208.2	4030.0	3992.1	3768.4
10°	4856.5	4833.7	4856.5	4845.1	4871.6	4883.0	4723.8	4598.7	4337.1	4272.6	3923.8
12.5°	4890.6	4936.1	4955.0	5004.3	5068.8	5178.7	5167.3	4996.7	4647.9	4606.2	4162.7
15°	4974.0	5011.9	4992.9	5072.6	5193.9	5379.6	5478.2	5451.7	5076.3	5000.5	4439.4
17.5°	5049.8	4981.6	5046.0	5205.2	5326.6	5610.9	5849.7	5959.7	5542.7	5455.5	4693.4
20°	5152.2	5133.2	5121.8	5201.5	5417.6	5796.7	6270.6	6471.5	6065.8	5974.9	5057.4
22.5°	5463.0	5466.8	5459.3	5341.7	5497.2	5925.6	6638.3	7134.9	6691.4	6615.6	5470.6
25°	5872.5	5823.2	5785.3	5690.5	5671.6	6043.1	7009.8	7946.2	7442.0	7389.0	5918.0
27.5°	6304.7	6304.7	6190.9	6103.8	5982.4	6335.0	7351.0	8734.8	8348.1	8276.1	6308.5
30°	6774.8	6801.3	6786.2	6600.4	6524.6	6653.5	7699.8	9743.3	9386.9	9295.9	6953.0
32.5°	7468.6	7411.7	7476.1	7320.7	7097.0	7210.8	8249.5	10645.5	10736.5	10607.6	7798.4
35°	8386.0	8351.9	8310.2	8056.2	7790.8	7881.8	9026.7	11756.4	12431.2	12366.7	8651.4
37.5°	9208.7	9189.7	9155.6	8981.2	8674.2	8784.1	9910.1	12912.7	14084.1	13871.8	9857.0
40°	10073.1	10175.4	10065.5	9910.1	9629.5	9872.2	10948.8	13598.9	15475.5	15217.7	10778.2
42.5°	11244.5	11164.9	11214.2	10929.9	10778.2	11043.6	11991.4	14285.1	16556.0	16248.9	11756.4
45°	12491.8	12495.6	12362.9	12272.0	11877.7	12165.8	12632.1	14664.2	17416.5	17177.7	12495.6
47.5°	13291.8	13288.0	13432.0	13576.1	13170.5	12886.1	13068.1	15024.3	17860.1	17750.2	12764.8
50°	13166.7	13204.6	13390.3	13928.7	14141.0	13758.1	13477.5	14918.2	18061.0	18049.7	12996.1
52.5°	11453.1	11578.2	11889.0	12666.2	13735.3	14209.2	13905.9	15115.3	18159.6	18178.6	13341.1
55°	8719.6	8787.9	9379.3	10323.3	11506.1	13128.8	13735.3	15270.8	18235.4	18269.5	13758.1
56°	7563.3	7381.4	8234.4	8905.4	10319.5	12093.8	13303.1	15149.4	18189.9	18451.5	13966.6
57.5°	5709.5	5588.2	6278.1	7116.0	8477.0	10349.8	11961.1	14577.0	17882.9	17879.1	13667.1
60°	3472.7	3351.4	3882.1	4375.0	5137.0	6372.9	8082.7	11608.5	15119.1	15437.6	11066.4
62.5°	2066.2	2142.0	2665.2	2964.7	3211.1	3340.0	4181.6	6899.9	10088.2	10315.7	6865.8
65°	1376.2	1402.7	1797.0	2289.9	2399.8	1910.7	1702.2	2794.1	4375.0	4234.7	2832.0
67.5°	849.2	909.9	1205.6	1721.2	1906.9	1395.1	807.5	1042.6	1205.6	1205.6	818.9
70°	515.6	545.9	803.7	1171.5	1307.9	898.5	587.6	587.6	580.0	568.7	489.1
72.5°	246.4	265.4	409.4	602.8	614.2	473.9	454.9	496.6	485.3	481.5	405.7
75°	106.2	113.7	144.1	189.6	216.1	200.9	276.8	356.4	367.7	356.4	291.9
77.5°	34.1	37.9	53.1	68.2	72.0	87.2	117.5	147.9	170.6	159.2	144.1
80°	3.8	7.6	15.2	34.1	53.1	68.2	87.2	98.6	109.9	109.9	102.4
82.5°	3.8	3.8	15.2	30.3	49.3	64.4	83.4	94.8	109.9	113.7	106.2
85°	0.0	3.8	11.4	26.5	41.7	41.7	37.9	37.9	26.5	26.5	26.5
87.5°	0.0	0.0	3.8	3.8	3.8	7.6	7.6	7.6	7.6	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531203

CATALOG NUMBER: GALN-SA6C-727-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4	3423.4
2.5°	3453.7	3446.2	3343.8	3279.3	3245.2	3177.0	3135.3	3105.0	3082.2	3055.7	3059.5
5°	3499.2	3472.7	3302.1	3184.6	3044.3	2968.5	2904.0	2850.9	2816.8	2809.2	2794.1
7.5°	3628.1	3487.9	3230.1	3017.8	2839.6	2763.7	2706.9	2672.8	2687.9	2653.8	2680.3
10°	3726.7	3518.2	3142.9	2835.8	2657.6	2600.7	2570.4	2596.9	2634.8	2619.7	2600.7
12.5°	3848.0	3548.5	3002.6	2661.4	2494.6	2452.9	2505.9	2555.2	2631.1	2661.4	2623.5
15°	3984.5	3582.6	2824.4	2460.5	2354.3	2388.4	2479.4	2566.6	2642.4	2680.3	2703.1
17.5°	4151.3	3571.3	2650.0	2301.2	2221.6	2320.2	2430.1	2509.7	2623.5	2680.3	2665.2
20°	4306.7	3533.4	2456.7	2142.0	2145.8	2236.8	2327.8	2456.7	2517.3	2593.1	2566.6
22.5°	4454.6	3465.1	2255.7	2032.1	2032.1	2172.3	2217.8	2301.2	2354.3	2392.2	2388.4
25°	4663.1	3336.2	2088.9	1925.9	1971.4	2062.4	2100.3	2126.8	2104.1	2134.4	2138.2
27.5°	4811.0	3203.5	1952.4	1831.1	1914.5	1982.8	1971.4	1956.2	1903.2	1861.5	1888.0
30°	4970.2	3048.1	1834.9	1766.7	1812.2	1872.8	1827.3	1781.8	1698.4	1630.2	1634.0
32.5°	5197.7	2976.1	1732.6	1690.9	1751.5	1759.1	1709.8	1641.6	1558.2	1493.7	1489.9
35°	5622.3	2930.6	1645.4	1641.6	1652.9	1656.7	1607.4	1524.0	1489.9	1436.8	1455.8
37.5°	6046.9	2907.8	1584.7	1569.5	1565.7	1569.5	1512.7	1433.1	1497.5	1493.7	1501.3
40°	6589.0	3010.2	1497.5	1478.5	1482.3	1482.3	1410.3	1387.6	1501.3	1512.7	1516.5
42.5°	7138.7	3139.1	1440.6	1380.0	1395.1	1395.1	1357.2	1330.7	1410.3	1334.5	1323.1
45°	7616.4	3328.6	1380.0	1281.4	1319.3	1338.3	1326.9	1281.4	1232.1	1103.2	1103.2
47.5°	7771.9	3495.4	1307.9	1186.6	1217.0	1300.4	1266.2	1171.5	1084.3	978.1	970.5
50°	8044.8	3677.4	1251.1	1076.7	1141.1	1243.5	1209.4	1114.6	1016.0	940.2	944.0
52.5°	8325.4	3885.9	1144.9	947.8	1027.4	1198.0	1198.0	1091.9	940.2	887.1	879.5
55°	8746.2	3878.3	955.4	777.2	917.5	1129.8	1148.7	978.1	841.6	799.9	799.9
56°	8806.8	3704.0	860.6	727.9	868.2	1110.8	1114.6	947.8	803.7	758.2	758.2
57.5°	8351.9	3343.8	754.4	667.2	807.5	1076.7	1080.5	921.2	773.4	708.9	701.4
60°	6426.0	2263.3	629.3	595.2	731.7	970.5	989.5	837.8	678.6	629.3	625.5
62.5°	3628.1	1254.9	553.5	538.3	629.3	826.5	883.3	731.7	576.3	549.7	557.3
65°	1656.7	690.0	466.3	436.0	508.0	636.9	712.7	602.8	473.9	443.6	443.6
67.5°	606.6	470.1	398.1	345.0	356.4	413.2	462.5	390.5	314.7	269.2	280.5
70°	432.2	394.3	348.8	299.5	276.8	269.2	265.4	219.9	155.4	121.3	128.9
72.5°	348.8	326.0	291.9	254.0	216.1	182.0	155.4	113.7	72.0	49.3	45.5
75°	250.2	238.8	212.3	182.0	151.6	128.9	106.2	72.0	37.9	19.0	19.0
77.5°	128.9	128.9	125.1	113.7	94.8	75.8	60.7	41.7	22.7	7.6	7.6
80°	98.6	106.2	109.9	98.6	87.2	68.2	49.3	30.3	15.2	3.8	3.8
82.5°	94.8	109.9	117.5	102.4	87.2	64.4	49.3	30.3	15.2	3.8	3.8
85°	22.7	22.7	34.1	37.9	49.3	53.1	41.7	26.5	11.4	3.8	3.8
87.5°	7.6	7.6	7.6	7.6	7.6	7.6	3.8	3.8	3.8	3.8	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)