

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: P529331

Luminaire Tested: **GALN-SA4C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529331
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-SA4C-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 13721 lumens
Efficiency: N/A
Efficacy: 64.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

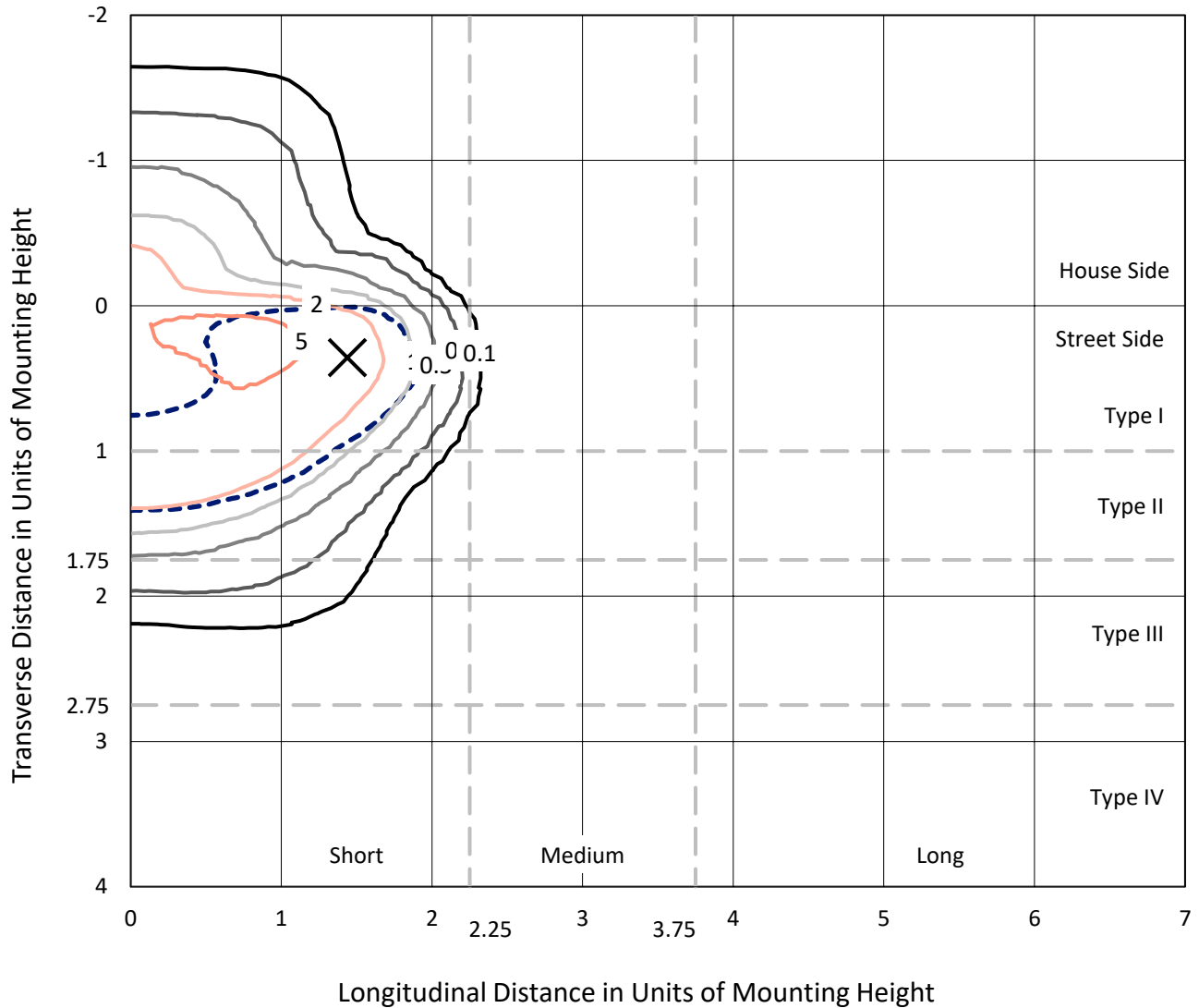
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529331
 CATALOG NUMBER: GALN-SA4C-727-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

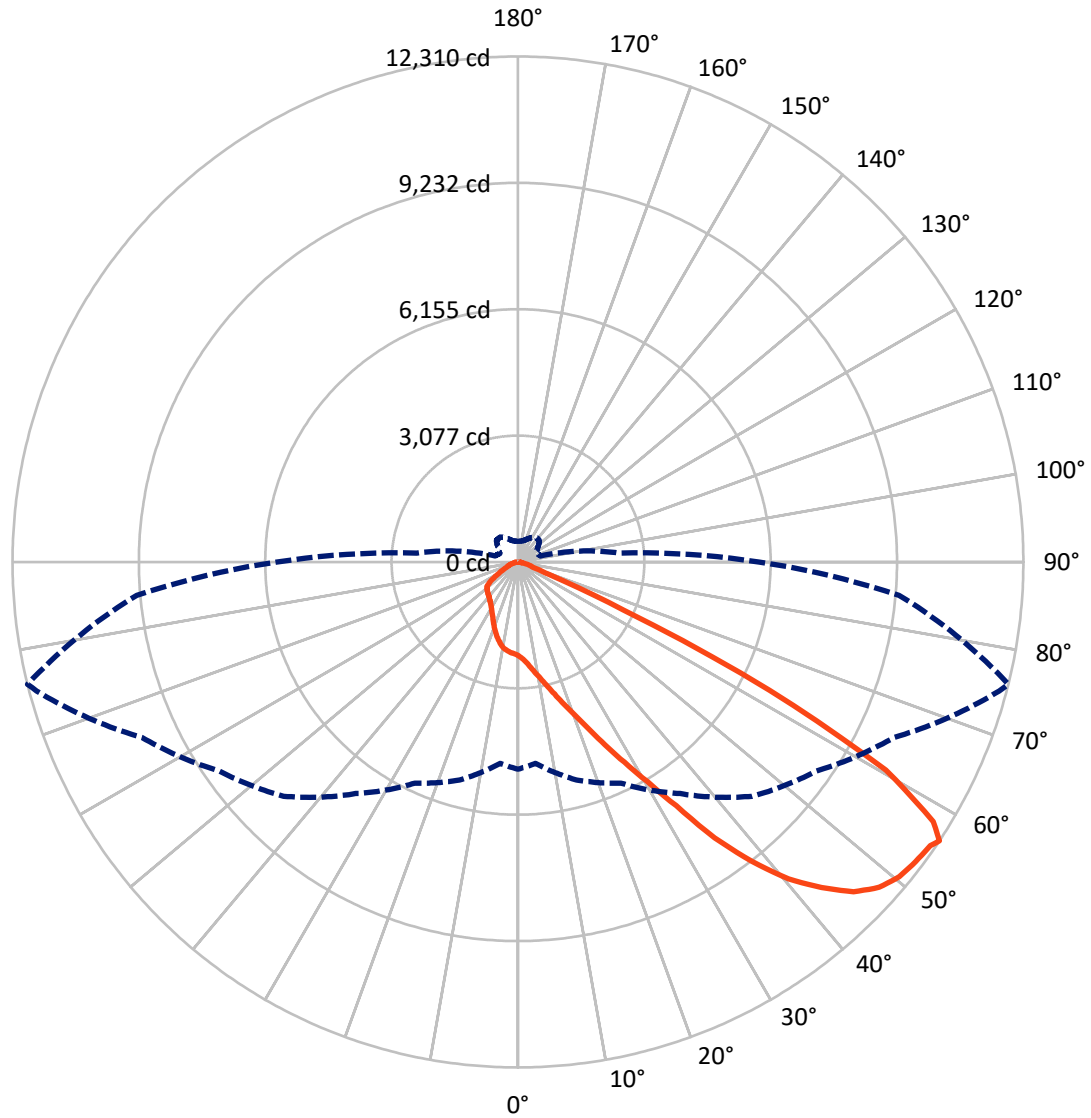
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

REPORT NUMBER: P529331
CATALOG NUMBER: GALN-SA4C-727-U-T2-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P529331
 CATALOG NUMBER: GALN-SA4C-727-U-T2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2155.5	0.0	2155.5
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	11565.5	0.0	11565.5
	% Fixture	84.3	0.0	84.3
Total	Lumens	13721.0	0.0	13721.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.1	1.7
10°-20°	739.1	5.4
20°-30°	1340.2	9.8
30°-40°	2311.3	16.8
40°-50°	3754.8	27.4
50°-60°	3957.7	28.8
60°-70°	1209.2	8.8
70°-80°	155.0	1.1
80°-90°	23.6	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°	13721.0	100.0
0°-180°	13721.0	100.0

Coefficient of Utilization

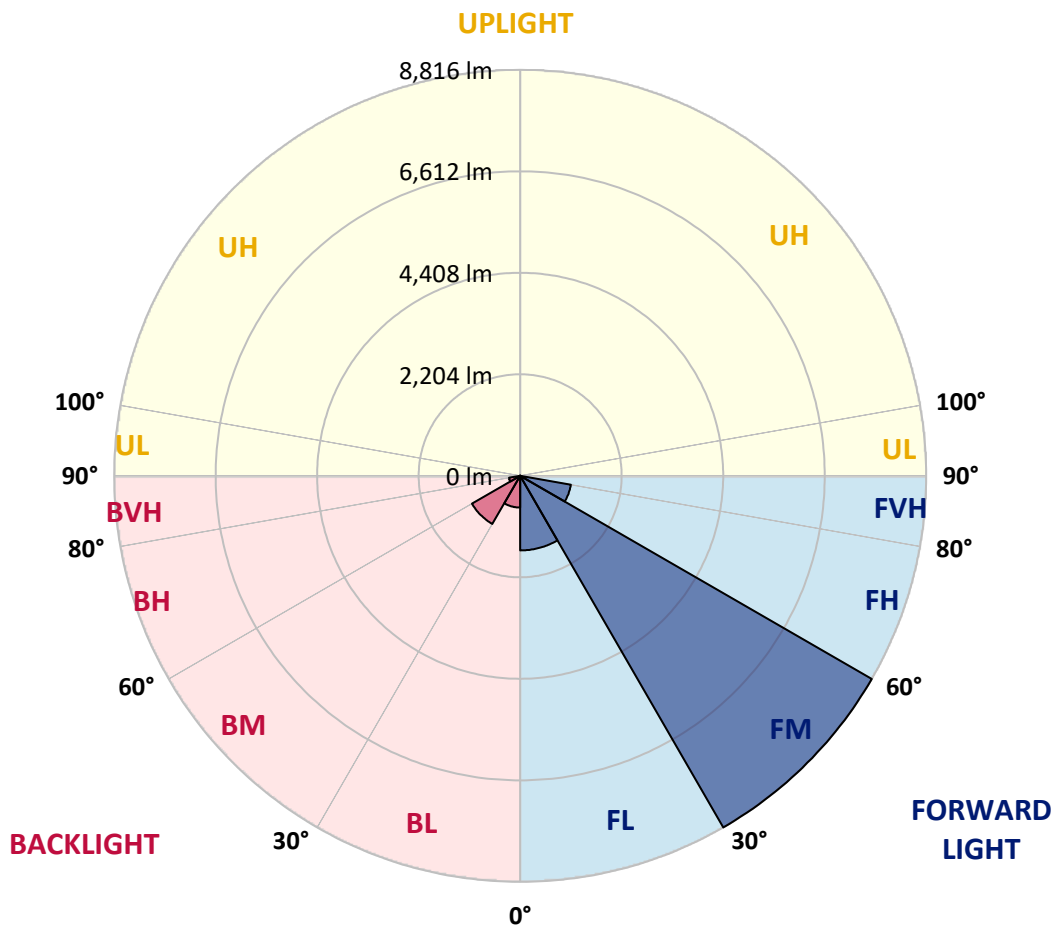


REPORT NUMBER: P529331
 CATALOG NUMBER: GALN-SA4C-727-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1619.9	11.8			
FM (30°-60°)	8815.7	64.2			
FH (60°-80°)	1118.3	8.2			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	689.5	5.0	B2/1000		
BM (30°-60°)	1208.0	8.8	B2/2500		
BH (60°-80°)	245.9	1.8	B1/500		G1/500
BVH (80°-90°)	12.0	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





REPORT NUMBER: P529331

CATALOG NUMBER: GALN-SA4C-727-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9
2.5°	2630.4	2569.7	2572.2	2567.2	2559.6	2531.7	2448.3	2435.6	2380.0	2364.8	2314.2
5°	2946.5	2893.4	2923.8	2878.2	2835.2	2810.0	2673.4	2610.1	2521.6	2488.7	2417.9
7.5°	3143.8	3118.5	3108.4	3110.9	3070.5	3007.2	2946.5	2807.4	2688.6	2663.3	2514.0
10°	3239.9	3224.7	3239.9	3232.3	3250.0	3257.6	3151.4	3067.9	2893.4	2850.4	2617.7
12.5°	3262.7	3293.0	3305.7	3338.6	3381.6	3454.9	3447.3	3333.5	3100.8	3073.0	2777.1
15°	3318.3	3343.6	3331.0	3384.1	3465.0	3589.0	3654.7	3637.0	3386.6	3336.0	2961.7
17.5°	3368.9	3323.4	3366.4	3472.6	3553.5	3743.2	3902.6	3975.9	3697.7	3639.5	3131.2
20°	3437.2	3424.6	3417.0	3470.1	3614.2	3867.2	4183.3	4317.4	4046.7	3986.0	3374.0
22.5°	3644.6	3647.1	3642.1	3563.7	3667.4	3953.2	4428.7	4760.0	4464.1	4413.5	3649.7
25°	3917.8	3884.9	3859.6	3796.4	3783.7	4031.6	4676.5	5301.2	4964.8	4929.4	3948.1
27.5°	4206.1	4206.1	4130.2	4072.0	3991.1	4226.3	4904.1	5827.3	5569.3	5521.3	4208.6
30°	4519.7	4537.4	4527.3	4403.4	4352.8	4438.8	5136.8	6500.1	6262.3	6201.6	4638.6
32.5°	4982.6	4944.6	4987.6	4883.9	4734.7	4810.6	5503.6	7102.0	7162.7	7076.7	5202.6
35°	5594.6	5571.9	5544.0	5374.6	5197.5	5258.2	6022.1	7843.1	8293.3	8250.3	5771.7
37.5°	6143.5	6130.8	6108.1	5991.7	5786.8	5860.2	6611.4	8614.5	9396.0	9254.4	6576.0
40°	6720.1	6788.4	6715.1	6611.4	6424.2	6586.1	7304.4	9072.3	10324.3	10152.3	7190.6
42.5°	7501.7	7448.5	7481.4	7291.7	7190.6	7367.6	7999.9	9530.1	11045.1	10840.2	7843.1
45°	8333.8	8336.3	8247.8	8187.1	7924.0	8116.3	8427.3	9783.0	11619.2	11459.9	8336.3
47.5°	8867.4	8864.9	8961.0	9057.1	8786.5	8596.8	8718.2	10023.3	11915.1	11841.8	8515.9
50°	8784.0	8809.3	8933.2	9292.3	9434.0	9178.5	8991.4	9952.5	12049.2	12041.6	8670.1
52.5°	7640.8	7724.2	7931.6	8450.1	9163.3	9479.5	9277.2	10084.0	12114.9	12127.6	8900.3
55°	5817.2	5862.7	6257.3	6887.1	7676.2	8758.7	9163.3	10187.7	12165.5	12188.3	9178.5
56°	5045.8	4924.4	5493.5	5941.1	6884.5	8068.2	8875.0	10106.7	12135.2	12309.7	9317.6
57.5°	3809.0	3728.1	4188.4	4747.3	5655.3	6904.8	7979.7	9724.8	11930.3	11927.8	9117.8
60°	2316.8	2235.8	2589.9	2918.7	3427.1	4251.6	5392.3	7744.5	10086.5	10299.0	7382.8
62.5°	1378.4	1429.0	1778.0	1977.8	2142.2	2228.2	2789.7	4603.2	6730.2	6882.0	4580.4
65°	918.1	935.8	1198.8	1527.6	1601.0	1274.7	1135.6	1864.0	2918.7	2825.1	1889.3
67.5°	566.5	607.0	804.3	1148.3	1272.2	930.8	538.7	695.5	804.3	804.3	546.3
70°	344.0	364.2	536.2	781.5	872.6	599.4	392.0	392.0	387.0	379.4	326.3
72.5°	164.4	177.0	273.2	402.1	409.7	316.2	303.5	331.3	323.7	321.2	270.6
75°	70.8	75.9	96.1	126.5	144.2	134.0	184.6	237.7	245.3	237.7	194.7
77.5°	22.8	25.3	35.4	45.5	48.1	58.2	78.4	98.6	113.8	106.2	96.1
80°	2.5	5.1	10.1	22.8	35.4	45.5	58.2	65.8	73.3	73.3	68.3
82.5°	2.5	2.5	10.1	20.2	32.9	43.0	55.6	63.2	73.3	75.9	70.8
85°	0.0	2.5	7.6	17.7	27.8	27.8	25.3	25.3	17.7	17.7	17.7
87.5°	0.0	0.0	2.5	2.5	2.5	5.1	5.1	5.1	5.1	5.1	5.1
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: P529331

CATALOG NUMBER: GALN-SA4C-727-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9	2283.9
2.5°	2304.1	2299.1	2230.8	2187.8	2165.0	2119.5	2091.7	2071.4	2056.3	2038.5	2041.1
5°	2334.5	2316.8	2202.9	2124.5	2031.0	1980.4	1937.4	1902.0	1879.2	1874.1	1864.0
7.5°	2420.5	2326.9	2154.9	2013.3	1894.4	1843.8	1805.9	1783.1	1793.2	1770.5	1788.2
10°	2486.2	2347.1	2096.7	1891.9	1773.0	1735.0	1714.8	1732.5	1757.8	1747.7	1735.0
12.5°	2567.2	2367.3	2003.1	1775.5	1664.2	1636.4	1671.8	1704.7	1755.3	1775.5	1750.2
15°	2658.2	2390.1	1884.3	1641.5	1570.6	1593.4	1654.1	1712.3	1762.9	1788.2	1803.3
17.5°	2769.5	2382.5	1767.9	1535.2	1482.1	1547.9	1621.2	1674.3	1750.2	1788.2	1778.0
20°	2873.2	2357.2	1638.9	1429.0	1431.5	1492.2	1552.9	1638.9	1679.4	1730.0	1712.3
22.5°	2971.8	2311.7	1504.9	1355.7	1355.7	1449.2	1479.6	1535.2	1570.6	1595.9	1593.4
25°	3110.9	2225.7	1393.6	1284.8	1315.2	1375.9	1401.2	1418.9	1403.7	1423.9	1426.5
27.5°	3209.6	2137.2	1302.5	1221.6	1277.3	1322.8	1315.2	1305.1	1269.7	1241.8	1259.5
30°	3315.8	2033.5	1224.1	1178.6	1209.0	1249.4	1219.1	1188.7	1133.1	1087.6	1090.1
32.5°	3467.6	1985.4	1155.9	1128.0	1168.5	1173.6	1140.7	1095.2	1039.5	996.5	994.0
35°	3750.8	1955.1	1097.7	1095.2	1102.7	1105.3	1072.4	1016.7	994.0	958.6	971.2
37.5°	4034.1	1939.9	1057.2	1047.1	1044.6	1047.1	1009.2	956.0	999.0	996.5	1001.6
40°	4395.8	2008.2	999.0	986.4	988.9	988.9	940.9	925.7	1001.6	1009.2	1011.7
42.5°	4762.5	2094.2	961.1	920.6	930.8	930.8	905.5	887.8	940.9	890.3	882.7
45°	5081.2	2220.7	920.6	854.9	880.2	892.8	885.2	854.9	822.0	736.0	736.0
47.5°	5184.9	2331.9	872.6	791.6	811.9	867.5	844.8	781.5	723.4	652.5	647.5
50°	5367.0	2453.3	834.6	718.3	761.3	829.6	806.8	743.6	677.8	627.2	629.8
52.5°	5554.2	2592.4	763.8	632.3	685.4	799.2	799.2	728.4	627.2	591.8	586.8
55°	5834.9	2587.4	637.4	518.5	612.1	753.7	766.4	652.5	561.5	533.7	533.7
56°	5875.4	2471.0	574.1	485.6	579.2	741.1	743.6	632.3	536.2	505.8	505.8
57.5°	5571.9	2230.8	503.3	445.1	538.7	718.3	720.8	614.6	516.0	473.0	467.9
60°	4287.0	1509.9	419.8	397.1	488.1	647.5	660.1	559.0	452.7	419.8	417.3
62.5°	2420.5	837.2	369.3	359.1	419.8	551.4	589.3	488.1	384.4	366.7	371.8
65°	1105.3	460.3	311.1	290.9	338.9	424.9	475.5	402.1	316.2	295.9	295.9
67.5°	404.7	313.6	265.6	230.2	237.7	275.7	308.6	260.5	209.9	179.6	187.2
70°	288.3	263.0	232.7	199.8	184.6	179.6	177.0	146.7	103.7	80.9	86.0
72.5°	232.7	217.5	194.7	169.5	144.2	121.4	103.7	75.9	48.1	32.9	30.4
75°	166.9	159.3	141.6	121.4	101.2	86.0	70.8	48.1	25.3	12.6	12.6
77.5°	86.0	86.0	83.5	75.9	63.2	50.6	40.5	27.8	15.2	5.1	5.1
80°	65.8	70.8	73.3	65.8	58.2	45.5	32.9	20.2	10.1	2.5	2.5
82.5°	63.2	73.3	78.4	68.3	58.2	43.0	32.9	20.2	10.1	2.5	2.5
85°	15.2	15.2	22.8	25.3	32.9	35.4	27.8	17.7	7.6	2.5	2.5
87.5°	5.1	5.1	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	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)