

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: P650895

Luminaire Tested: **GALN-SA5C-840-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-840-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29899.2 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

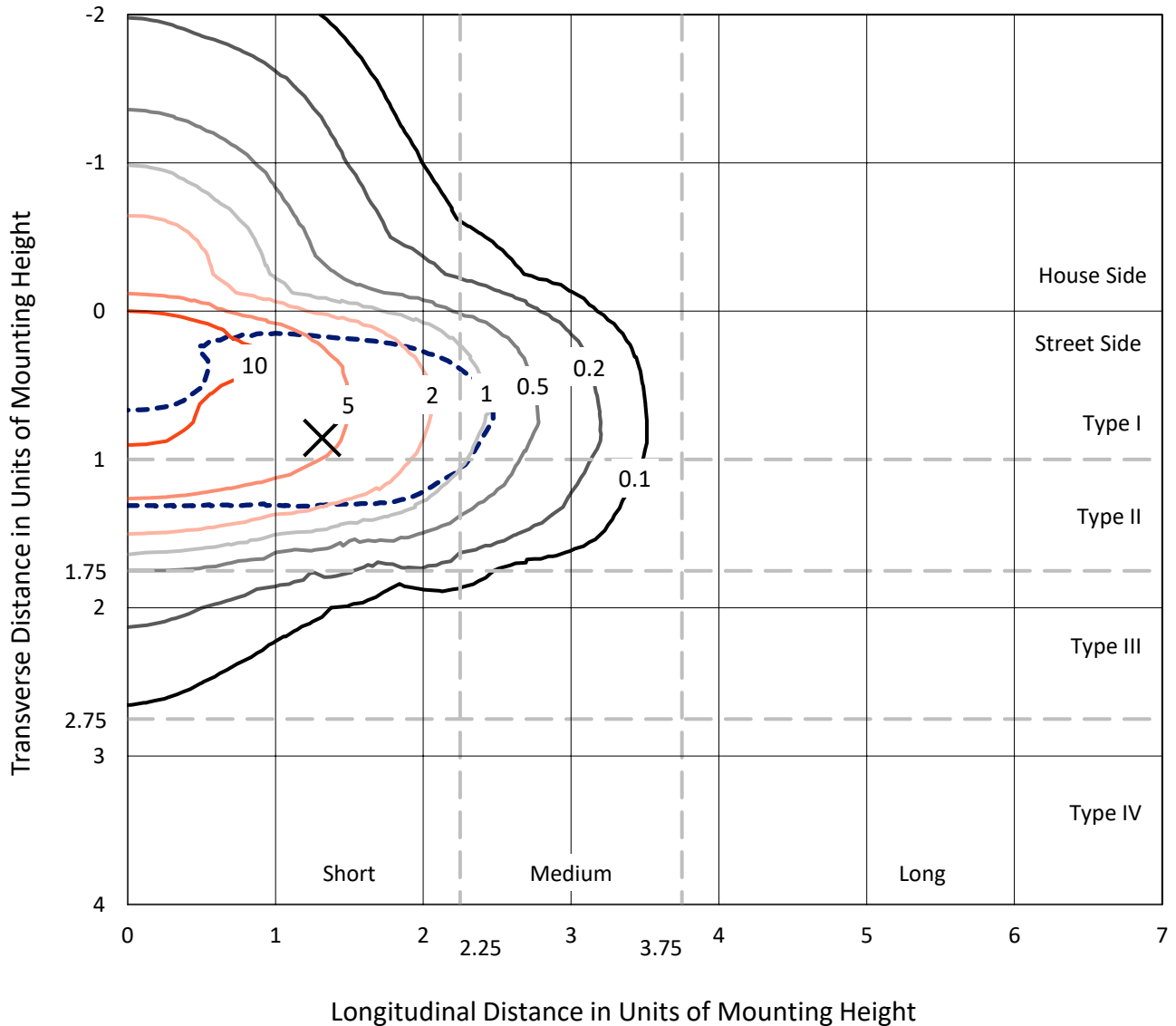
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650895
 CATALOG NUMBER: GALN-SA5C-840-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

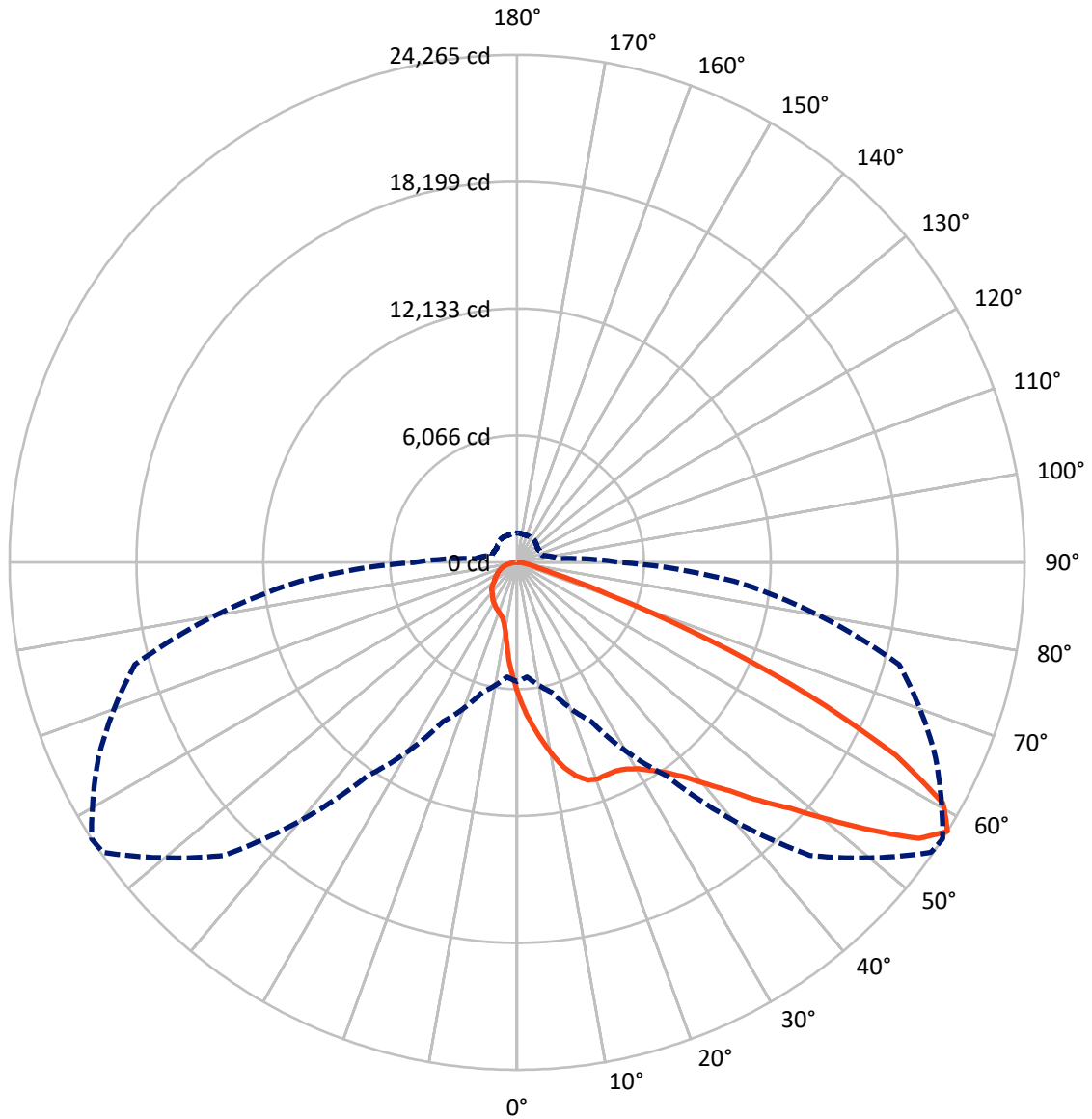
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

REPORT NUMBER: P650895
CATALOG NUMBER: GALN-SA5C-840-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P650895
 CATALOG NUMBER: GALN-SA5C-840-U-AFL

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4546.8	0.0	4546.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	25352.4	0.0	25352.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	29899.2	0.0	29899.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	603.7	2.0
10°-20°	1779.2	6.0
20°-30°	2954.4	9.9
30°-40°	4450.1	14.9
40°-50°	6681.4	22.3
50°-60°	7489.0	25.0
60°-70°	4383.0	14.7
70°-80°	1296.4	4.3
80°-90°	262.0	0.9
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°	29899.2	100.0
0°-180°	29899.2	100.0

Coefficient of Utilization



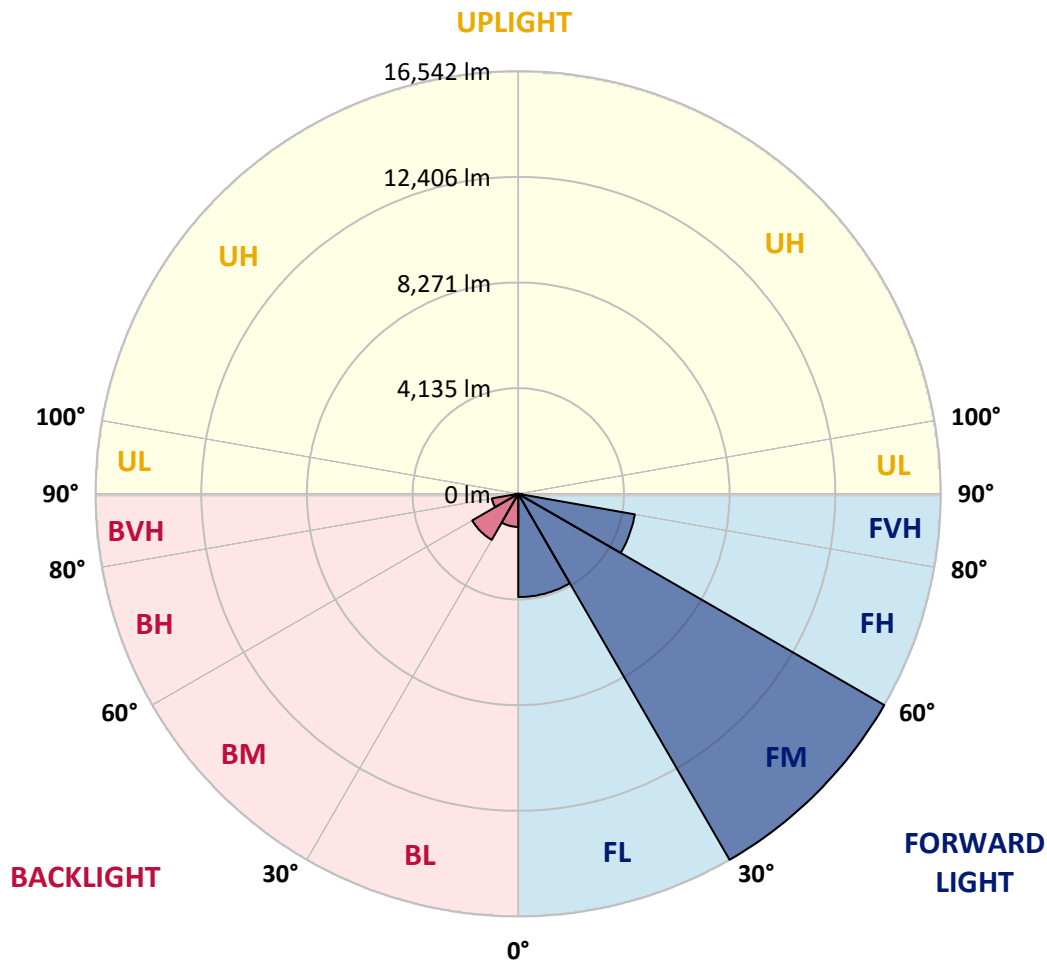
REPORT NUMBER: P650895
 CATALOG NUMBER: GALN-SA5C-840-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4041.7	13.5			
FM (30°-60°)	16541.6	55.3			
FH (60°-80°)	4633.2	15.5			G2/5000
FVH (80°-90°)	136.0	0.5			G2/225
BL (0°-30°)	1295.6	4.3	B3/2500		
BM (30°-60°)	2079.0	7.0	B2/2500		
BH (60°-80°)	1046.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	126.1	0.4			G2/225
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





REPORT NUMBER: P650895

CATALOG NUMBER: GALN-SA5C-840-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5
2.5°	7805.2	7720.1	7653.0	7594.1	7517.2	7309.3	7101.5	7098.2	6932.9	6677.5	6415.7
5°	9076.9	8962.4	8977.1	8793.7	8610.4	8309.3	7869.1	7846.1	7494.2	7016.4	6530.3
7.5°	9905.0	9906.6	9860.9	9756.1	9558.0	9216.0	8716.8	8603.9	8114.6	7389.5	6661.2
10°	9862.5	9906.6	9983.6	10073.6	10134.1	9965.6	9510.6	9373.1	8736.5	7841.2	6806.9
12.5°	9296.2	9365.0	9474.6	9700.4	10065.4	10343.6	10188.2	10076.9	9456.6	8291.3	6967.3
15°	8942.7	8983.6	9044.2	9196.3	9589.2	10255.3	10657.9	10599.0	10135.8	8800.3	7147.2
17.5°	8834.7	8875.6	8895.3	8988.5	9268.4	9950.9	10842.8	10947.6	10738.1	9268.4	7329.0
20°	8942.7	8962.4	8962.4	9018.0	9237.3	9772.5	10834.7	11045.8	11232.4	9829.8	7499.2
22.5°	9225.9	9234.0	9222.6	9242.2	9405.8	9821.5	10757.7	11019.6	11631.7	10306.0	7631.7
25°	9685.7	9698.8	9623.6	9577.7	9697.2	10037.6	10800.3	11040.9	11944.3	10761.0	7720.1
27.5°	10207.8	10224.2	10132.5	10026.1	10081.8	10304.4	10967.2	11183.3	12178.4	11209.4	7775.7
30°	10847.7	10854.3	10700.5	10572.8	10536.8	10702.1	11252.0	11453.3	12469.7	11738.1	7859.2
32.5°	11502.4	11551.6	11353.5	11173.4	11112.9	11163.6	11672.7	11867.4	12816.7	12306.0	7993.5
35°	12392.7	12401.0	12163.6	11944.3	11744.6	11810.1	12211.1	12351.9	13296.2	12962.3	8183.3
37.5°	13504.0	13579.4	13252.0	12842.8	12597.3	12502.4	12862.5	13016.3	13968.8	13767.6	8469.7
40°	14738.1	14765.9	14486.1	14230.7	13782.3	13507.3	13756.1	13923.0	14798.7	14728.3	8801.9
42.5°	15513.8	15574.4	15595.7	15569.5	15232.4	14770.8	14865.8	14944.3	15780.6	15630.1	9142.3
45°	15775.7	15865.7	16170.2	16815.0	16851.0	16396.1	16175.0	16250.4	16851.0	16540.0	9468.1
47.5°	15342.0	15495.8	16057.2	17379.7	18369.8	18404.2	17738.1	17572.8	17826.4	17294.6	9703.7
50°	14220.9	14253.6	15112.9	17027.8	19081.8	20324.0	19635.0	19327.3	18752.8	17852.7	9865.8
52.5°	12486.1	12523.7	13243.8	15392.7	18643.1	21666.1	21854.3	21304.4	19693.9	18286.4	9972.2
55°	9268.4	9486.1	10278.2	12355.1	16564.6	21540.0	23618.6	23306.0	20831.4	18630.1	10139.1
57.5°	5698.9	5499.1	6438.6	8405.9	12458.2	19808.4	24163.6	24265.0	22083.4	18918.1	10419.0
60°	2621.9	2661.2	3049.1	4335.5	7594.1	15495.8	22759.3	23400.9	22775.7	18908.3	10489.3
62.5°	1806.9	1770.9	1672.7	1903.4	3463.2	9800.3	19224.2	20310.9	21387.8	18320.8	10209.5
65°	1615.4	1579.4	1389.5	1325.7	1590.8	4271.7	13975.4	15346.9	18008.2	16837.9	9512.2
67.5°	1509.0	1459.9	1263.5	1139.1	1135.9	1700.5	8240.5	9891.9	13356.8	14235.6	8242.2
70°	1397.7	1358.4	1163.7	1026.2	967.2	1068.7	3621.9	4741.4	8672.6	10258.6	6420.6
72.5°	1286.4	1240.6	1065.5	918.2	841.3	800.3	1387.9	1805.2	4900.2	6150.6	3936.1
75°	1124.4	1101.5	952.5	831.4	748.0	646.5	880.5	1004.9	2343.7	2824.8	1975.4
77.5°	983.6	959.1	846.1	726.7	666.2	525.4	625.2	682.5	988.5	1145.7	892.0
80°	720.1	744.7	713.6	641.6	594.1	412.4	420.6	468.1	587.5	649.8	545.0
82.5°	456.7	502.4	549.9	494.3	450.1	325.7	291.3	309.3	401.0	425.5	242.2
85°	191.5	194.8	319.2	301.2	256.9	193.1	175.1	184.9	214.4	224.2	112.9
87.5°	73.7	72.0	112.9	104.7	80.2	55.7	55.7	62.2	85.1	78.5	36.0
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: P650895
 CATALOG NUMBER: GALN-SA5C-840-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5	6281.5
2.5°	6302.8	6186.6	5955.8	5669.3	5459.9	5224.2	5016.3	4867.5	4811.8	4785.5	4736.5
5°	6297.8	6068.7	5590.8	5090.0	4687.4	4275.0	3926.4	3700.5	3680.8	3530.3	3515.5
7.5°	6299.5	5949.2	5188.2	4451.7	3838.0	3415.7	3127.7	3052.3	2962.3	2939.5	2950.9
10°	6304.4	5797.0	4756.1	3820.0	3225.8	2949.2	2841.2	2811.8	2815.1	2824.8	2826.5
12.5°	6310.9	5649.8	4307.7	3340.5	2882.2	2767.6	2756.1	2782.3	2810.1	2831.4	2836.4
15°	6319.1	5481.1	3870.7	2954.2	2710.3	2700.5	2738.1	2782.3	2821.6	2852.7	2857.6
17.5°	6309.4	5284.8	3504.1	2716.9	2615.3	2662.9	2725.0	2780.7	2816.7	2846.1	2849.4
20°	6286.4	5065.4	3150.6	2549.9	2556.5	2633.3	2700.5	2752.8	2792.1	2806.8	2818.4
22.5°	6198.0	4803.6	2842.8	2420.7	2486.1	2592.5	2672.7	2703.7	2659.6	2628.5	2636.6
25°	6047.5	4463.2	2556.5	2315.9	2422.2	2535.2	2617.0	2541.8	2505.8	2492.6	2499.2
27.5°	5859.2	4090.0	2340.4	2206.2	2340.4	2471.4	2448.4	2435.4	2419.0	2397.7	2402.7
30°	5656.3	3725.0	2157.1	2121.1	2252.0	2327.3	2337.1	2358.4	2340.4	2307.7	2320.7
32.5°	5468.1	3381.3	2018.0	2049.1	2189.9	2178.4	2252.0	2276.6	2193.2	2083.5	2088.4
35°	5307.6	3062.2	1913.3	1978.7	2083.5	2088.4	2162.0	2076.9	1986.9	1934.6	1937.8
37.5°	5186.5	2813.4	1844.5	1918.2	1947.6	2009.8	1970.5	1926.3	1914.9	1878.9	1880.5
40°	5114.5	2595.7	1800.3	1870.7	1865.8	1908.3	1782.3	1826.5	1842.9	1831.4	1833.0
42.5°	5042.6	2441.9	1754.5	1805.2	1803.6	1720.1	1692.3	1729.9	1772.5	1777.4	1774.2
45°	4985.3	2322.4	1707.1	1705.4	1738.1	1607.2	1599.0	1622.0	1682.5	1711.9	1710.3
47.5°	4921.4	2222.6	1635.0	1589.2	1599.0	1536.8	1523.7	1533.6	1607.2	1654.7	1667.8
50°	4841.2	2122.8	1545.0	1482.9	1441.9	1471.3	1474.6	1476.3	1549.9	1604.0	1615.4
52.5°	4777.4	2047.5	1441.9	1396.1	1346.9	1412.5	1437.0	1440.3	1484.4	1528.6	1536.8
55°	4815.1	2004.9	1340.4	1307.7	1263.5	1351.9	1399.3	1405.9	1415.7	1448.5	1453.3
57.5°	4928.0	2014.7	1258.6	1216.0	1183.3	1279.8	1360.1	1364.9	1358.4	1397.7	1404.2
60°	4962.3	2009.8	1198.0	1114.6	1094.9	1203.0	1302.8	1312.6	1311.0	1368.2	1379.7
62.5°	4818.3	1947.6	1137.5	1029.5	1016.3	1124.4	1222.6	1261.8	1270.1	1351.9	1366.6
65°	4479.5	1819.9	1057.3	939.5	939.5	1040.9	1145.7	1199.7	1222.6	1332.2	1348.6
67.5°	4032.7	1669.4	975.5	862.5	859.2	960.8	1063.9	1119.5	1155.4	1304.4	1314.2
70°	3346.9	1466.5	874.0	779.0	779.0	870.7	964.0	1031.1	1083.5	1252.1	1252.1
72.5°	2293.0	1219.3	751.3	684.2	685.8	770.9	865.8	941.1	1003.2	1147.3	1150.6
75°	1450.1	952.5	617.0	582.6	589.2	669.4	767.6	846.1	970.5	1134.2	1139.1
77.5°	770.9	669.4	491.0	482.8	491.0	564.6	674.3	782.3	973.8	983.6	967.2
80°	499.2	474.7	387.9	371.6	374.8	455.0	600.6	743.0	782.3	792.1	756.1
82.5°	271.6	301.2	274.9	258.6	258.6	355.2	512.3	590.8	561.4	466.4	445.1
85°	116.2	140.8	142.4	124.4	119.5	219.3	343.7	322.4	299.5	286.4	283.2
87.5°	32.7	45.8	45.8	34.4	26.2	60.6	68.7	19.7	0.0	1.6	3.3
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)