

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: P646935

Luminaire Tested: **GALN-SA5C-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646935
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-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27837.2 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

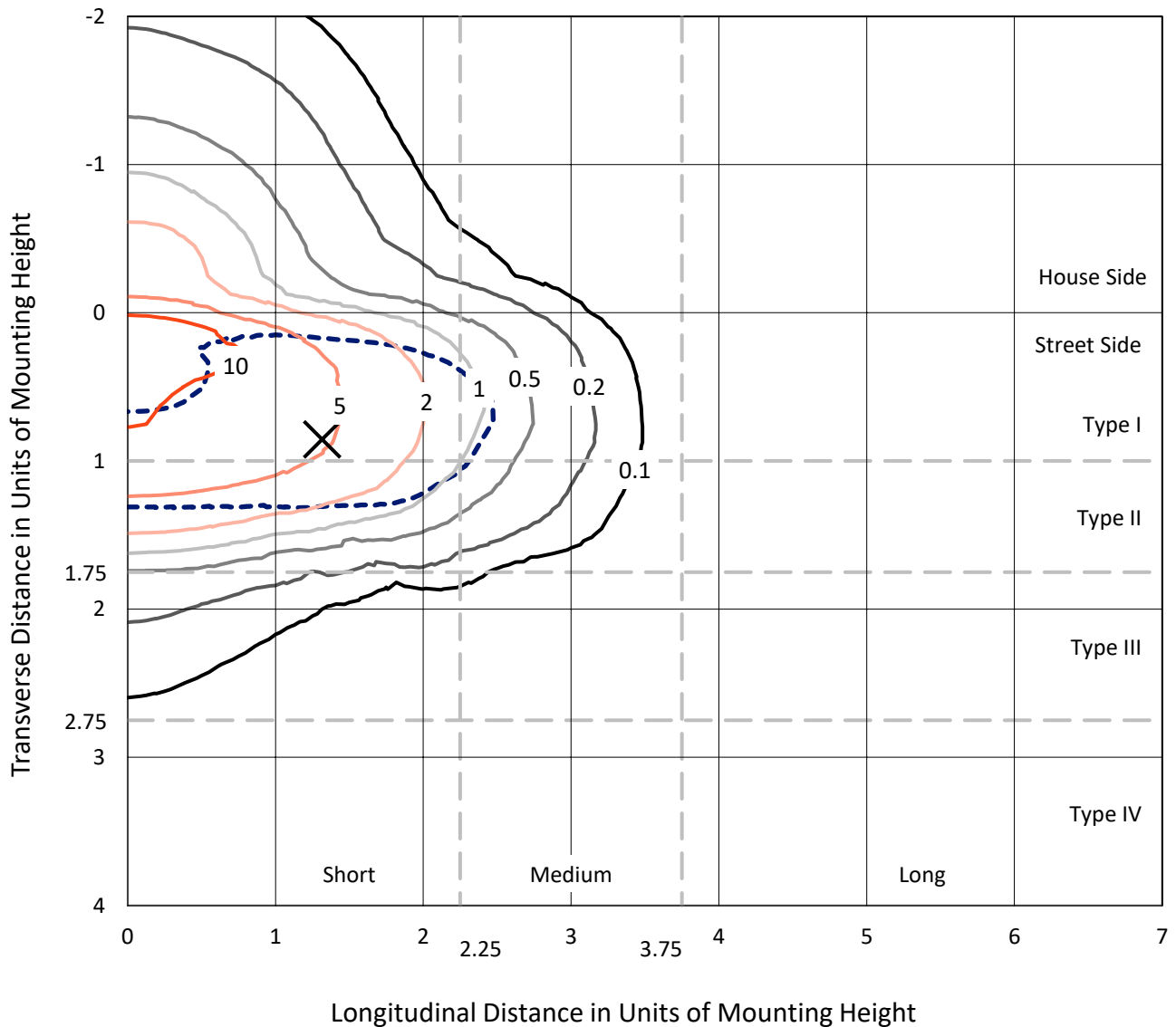
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

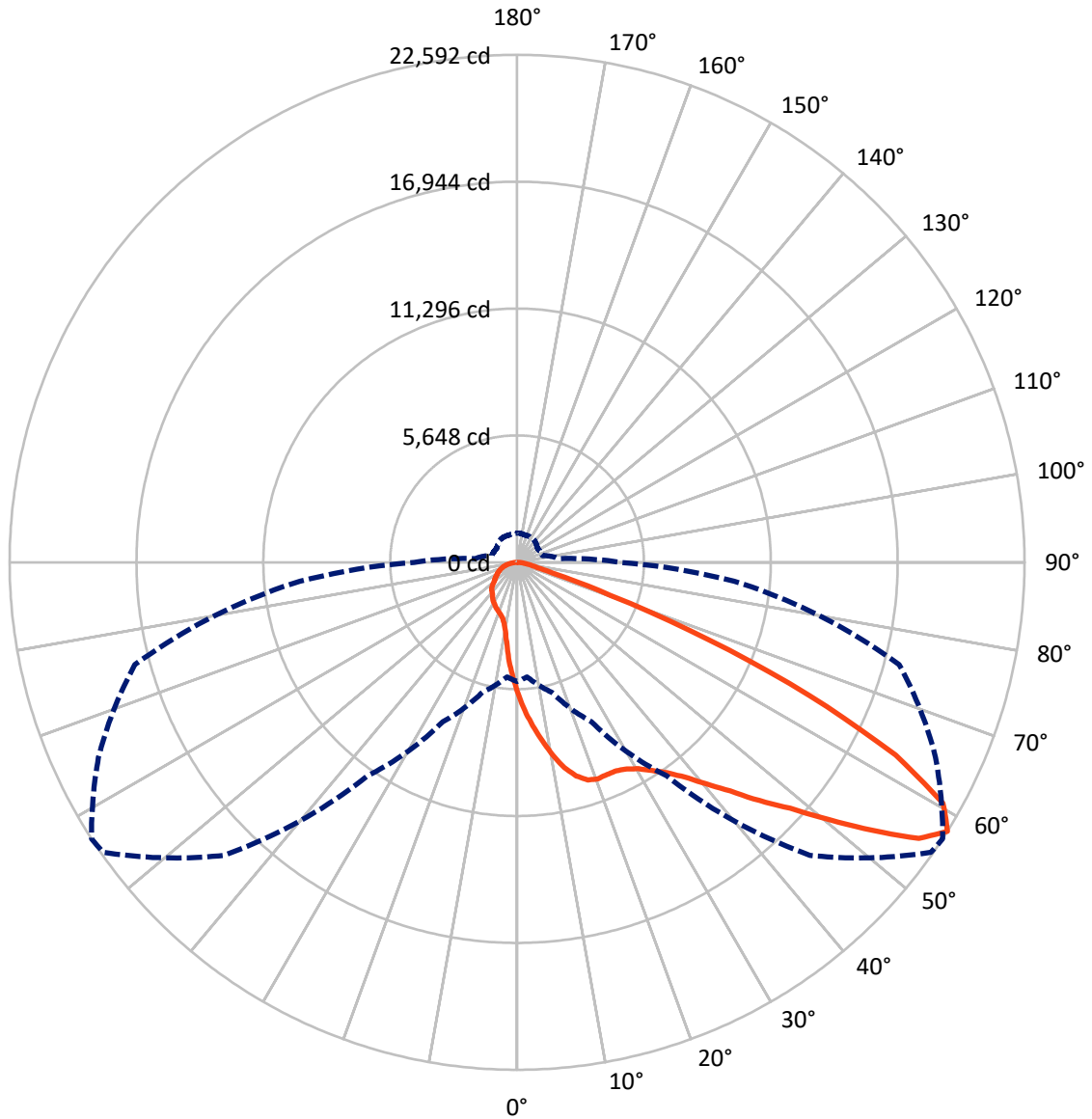
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4233.3	0.0	4233.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	23604.0	0.0	23604.0
	% Fixture	84.8	0.0	84.8
Total	Lumens	27837.2	0.0	27837.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.1	2.0
10°-20°	1656.5	6.0
20°-30°	2750.6	9.9
30°-40°	4143.2	14.9
40°-50°	6220.6	22.3
50°-60°	6972.6	25.0
60°-70°	4080.7	14.7
70°-80°	1207.0	4.3
80°-90°	244.0	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°	27837.2	100.0
0°-180°	27837.2	100.0

Coefficient of Utilization



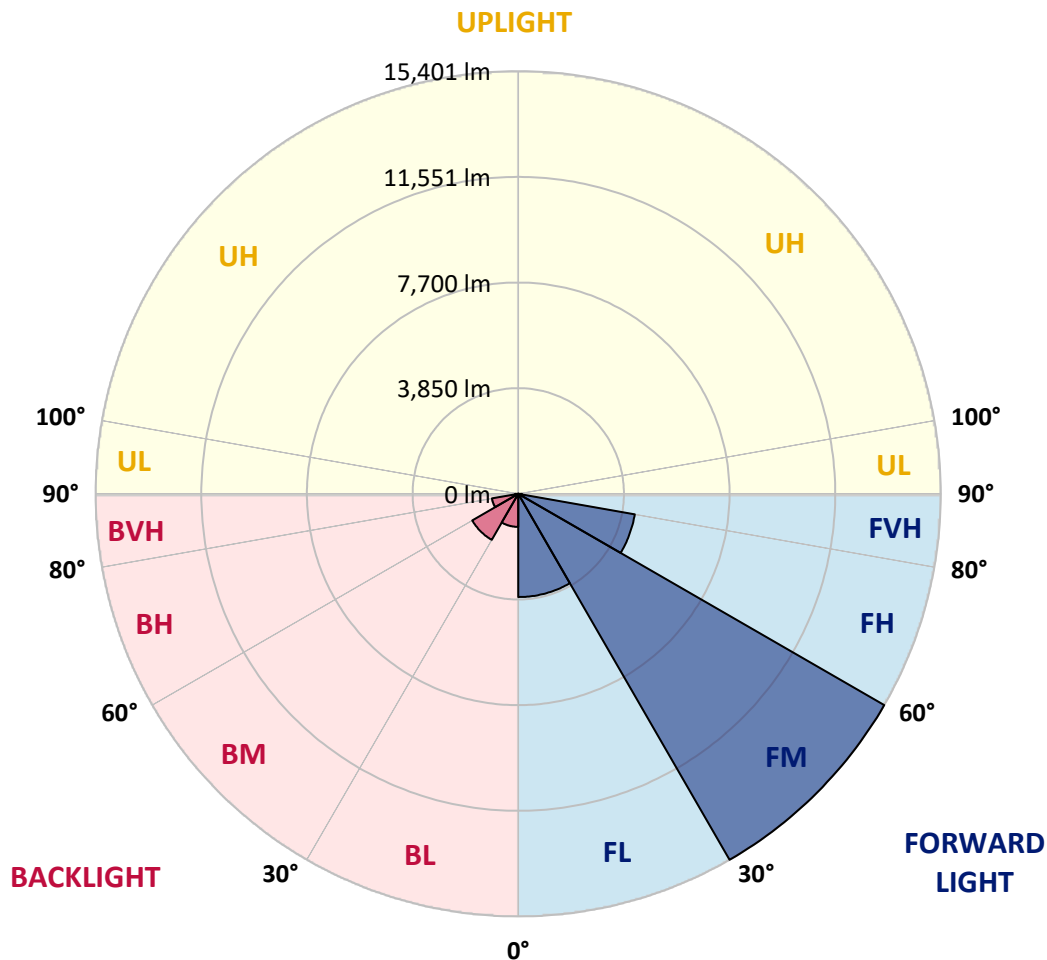
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3763.0	13.5			
FM (30°-60°)	15400.8	55.3			
FH (60°-80°)	4313.7	15.5			G2/5000
FVH (80°-90°)	126.6	0.5			G2/225
BL (0°-30°)	1206.2	4.3	B3/2500		
BM (30°-60°)	1935.6	7.0	B2/2500		
BH (60°-80°)	974.1	3.5	B2/1000		G2/1000
BVH (80°-90°)	117.4	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3
2.5°	7266.9	7187.7	7125.2	7070.3	6998.8	6805.2	6611.7	6608.7	6454.7	6217.0	5973.2
5°	8450.9	8344.3	8358.0	8187.3	8016.6	7736.3	7326.4	7305.0	6977.4	6532.5	6079.9
7.5°	9221.9	9223.4	9180.8	9083.3	8898.9	8580.4	8115.6	8010.6	7554.9	6879.9	6201.8
10°	9182.3	9223.4	9295.1	9378.9	9435.2	9278.3	8854.7	8726.7	8134.0	7300.5	6337.4
12.5°	8655.1	8719.1	8821.2	9031.4	9371.3	9630.3	9485.6	9381.9	8804.4	7719.5	6486.8
15°	8326.0	8364.1	8420.5	8562.1	8927.8	9548.1	9922.9	9868.0	9436.8	8193.4	6654.3
17.5°	8225.4	8263.5	8281.8	8368.6	8629.2	9264.6	10095.1	10192.6	9997.6	8629.2	6823.5
20°	8326.0	8344.3	8344.3	8396.0	8600.2	9098.5	10087.5	10284.0	10457.7	9151.9	6982.0
22.5°	8589.6	8597.2	8586.5	8604.8	8757.2	9144.2	10015.8	10259.6	10829.5	9595.3	7105.4
25°	9017.7	9029.9	8959.9	8917.2	9028.4	9345.3	10055.4	10279.5	11120.6	10018.9	7187.7
27.5°	9503.8	9519.1	9433.7	9334.7	9386.5	9593.7	10210.9	10412.0	11338.5	10436.4	7239.5
30°	10099.6	10105.7	9962.5	9843.6	9810.1	9964.0	10476.0	10663.4	11609.7	10928.6	7317.2
32.5°	10709.2	10754.9	10570.5	10402.9	10346.5	10393.7	10867.6	11049.0	11932.8	11457.3	7442.2
35°	11538.1	11545.7	11324.8	11120.6	10934.7	10995.6	11368.9	11500.0	12379.2	12068.4	7618.9
37.5°	12572.7	12642.9	12338.0	11957.1	11728.6	11640.2	11975.4	12118.6	13005.5	12818.1	7885.6
40°	13721.7	13747.6	13487.0	13249.3	12831.8	12575.8	12807.4	12962.8	13778.1	13712.5	8194.9
42.5°	14443.9	14500.3	14520.1	14495.8	14181.9	13752.1	13840.5	13913.7	14692.3	14552.1	8511.8
45°	14687.7	14771.5	15055.0	15655.4	15688.9	15265.3	15059.5	15129.7	15688.9	15399.3	8815.1
47.5°	14284.0	14427.2	14949.8	16181.1	17102.9	17134.9	16514.8	16360.9	16597.0	16101.8	9034.5
50°	13240.1	13270.6	14070.6	15853.5	17765.8	18922.4	18280.9	17994.4	17459.5	16621.4	9185.4
52.5°	11625.0	11660.0	12330.4	14331.2	17357.4	20171.9	20347.1	19835.1	18335.7	17025.2	9284.4
55°	8629.2	8831.8	9569.4	11503.1	15422.2	20054.5	21989.7	21698.7	19394.8	17345.3	9439.8
57.5°	5305.8	5119.9	5994.6	7826.2	11599.0	18442.3	22497.2	22591.6	20560.4	17613.4	9700.4
60°	2441.1	2477.6	2838.8	4036.5	7070.3	14427.2	21189.7	21787.1	21205.0	17604.3	9765.9
62.5°	1682.3	1648.8	1557.3	1772.2	3224.3	9124.4	17898.4	18910.2	19912.8	17057.3	9505.4
65°	1504.0	1470.5	1293.7	1234.2	1481.1	3977.1	13011.6	14288.5	16766.2	15676.7	8856.2
67.5°	1404.9	1359.2	1176.4	1060.6	1057.5	1583.2	7672.2	9209.7	12435.6	13253.8	7673.8
70°	1301.3	1264.7	1083.4	955.4	900.5	995.0	3372.1	4414.4	8074.5	9551.1	5977.8
72.5°	1197.7	1155.0	992.0	854.9	783.2	745.1	1292.2	1680.7	4562.2	5726.4	3664.7
75°	1046.9	1025.5	886.8	774.1	696.4	601.9	819.8	935.6	2182.1	2630.0	1839.2
77.5°	915.8	892.9	787.8	676.6	620.2	489.1	582.1	635.4	920.3	1066.7	830.4
80°	670.5	693.3	664.4	597.4	553.1	384.0	391.6	435.8	547.0	604.9	507.4
82.5°	425.2	467.8	512.0	460.2	419.1	303.3	271.2	288.0	373.3	396.2	225.5
85°	178.3	181.3	297.1	280.4	239.2	179.8	163.0	172.2	199.6	208.7	105.2
87.5°	68.6	67.0	105.2	97.5	74.7	51.8	51.8	57.9	79.2	73.1	33.5
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°	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3	5848.3
2.5°	5868.1	5759.9	5545.0	5278.4	5083.3	4863.9	4670.4	4531.8	4479.9	4455.5	4409.9
5°	5863.5	5650.2	5205.2	4739.0	4364.1	3980.1	3655.6	3445.3	3427.0	3286.8	3273.1
7.5°	5865.1	5538.9	4830.4	4144.7	3573.3	3180.2	2912.0	2841.8	2758.0	2736.7	2747.4
10°	5869.6	5397.2	4428.1	3556.5	3003.4	2745.8	2645.3	2617.9	2620.9	2630.0	2631.6
12.5°	5875.7	5260.1	4010.6	3110.1	2683.4	2576.7	2566.0	2590.4	2616.3	2636.1	2640.7
15°	5883.3	5103.1	3603.8	2750.4	2523.4	2514.2	2549.3	2590.4	2627.0	2655.9	2660.6
17.5°	5874.2	4920.3	3262.4	2529.5	2435.0	2479.2	2537.1	2588.9	2622.4	2649.8	2652.9
20°	5852.8	4716.1	2933.3	2374.1	2380.2	2451.7	2514.2	2563.0	2599.6	2613.3	2624.0
22.5°	5770.6	4472.3	2646.8	2253.7	2314.6	2413.7	2488.4	2517.3	2476.2	2447.2	2454.8
25°	5630.4	4155.4	2380.2	2156.1	2255.2	2360.4	2436.5	2366.5	2332.9	2320.7	2326.8
27.5°	5455.2	3808.0	2179.0	2054.0	2179.0	2300.9	2279.5	2267.4	2252.1	2232.3	2237.0
30°	5266.2	3468.1	2008.3	1974.8	2096.7	2166.8	2176.0	2195.8	2179.0	2148.6	2160.7
32.5°	5091.0	3148.1	1878.8	1907.8	2038.9	2028.1	2096.7	2119.6	2041.9	1939.8	1944.3
35°	4941.6	2851.0	1781.3	1842.2	1939.8	1944.3	2012.9	1933.7	1849.8	1801.1	1804.2
37.5°	4828.8	2619.4	1717.3	1785.9	1813.3	1871.2	1834.6	1793.5	1782.8	1749.3	1750.8
40°	4761.8	2416.7	1676.2	1741.7	1737.1	1776.7	1659.4	1700.5	1715.8	1705.1	1706.6
42.5°	4694.8	2273.5	1633.5	1680.7	1679.2	1601.5	1575.6	1610.6	1650.3	1654.8	1651.8
45°	4641.5	2162.3	1589.3	1587.8	1618.2	1496.4	1488.7	1510.1	1566.5	1593.9	1592.4
47.5°	4582.0	2069.3	1522.2	1479.6	1488.7	1430.9	1418.6	1427.8	1496.4	1540.6	1552.8
50°	4507.3	1976.4	1438.4	1380.6	1342.5	1369.9	1372.9	1374.5	1443.0	1493.3	1504.0
52.5°	4447.9	1906.3	1342.5	1299.8	1254.1	1315.0	1337.9	1341.0	1382.1	1423.2	1430.9
55°	4483.0	1866.7	1247.9	1217.5	1176.4	1258.7	1302.8	1308.9	1318.1	1348.6	1353.1
57.5°	4588.1	1875.8	1171.8	1132.1	1101.7	1191.6	1266.3	1270.8	1264.7	1301.3	1307.4
60°	4620.1	1871.2	1115.4	1037.7	1019.4	1120.0	1212.9	1222.1	1220.5	1273.9	1284.5
62.5°	4486.0	1813.3	1059.0	958.5	946.3	1046.9	1138.2	1174.8	1182.5	1258.7	1272.4
65°	4170.6	1694.4	984.4	874.7	874.7	969.1	1066.7	1116.9	1138.2	1240.4	1255.6
67.5°	3754.6	1554.3	908.2	803.0	800.0	894.5	990.5	1042.3	1075.8	1214.4	1223.6
70°	3116.1	1365.3	813.7	725.3	725.3	810.6	897.5	960.0	1008.7	1165.7	1165.7
72.5°	2134.8	1135.2	699.5	637.0	638.5	717.7	806.1	876.2	934.0	1068.2	1071.2
75°	1350.0	886.8	574.5	542.5	548.6	623.2	714.6	787.8	903.6	1056.0	1060.6
77.5°	717.7	623.2	457.1	449.5	457.1	525.7	627.8	728.3	906.6	915.8	900.5
80°	464.8	441.9	361.1	345.9	349.0	423.6	559.2	691.8	728.3	737.5	704.0
82.5°	252.9	280.4	256.0	240.8	240.8	330.7	476.9	550.1	522.7	434.3	414.4
85°	108.2	131.1	132.6	115.8	111.3	204.2	320.0	300.2	278.8	266.7	263.6
87.5°	30.5	42.7	42.7	32.0	24.4	56.4	64.0	18.3	0.0	1.5	3.1
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)