

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: P459113

Luminaire Tested: **GALN-SA6A-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25745 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

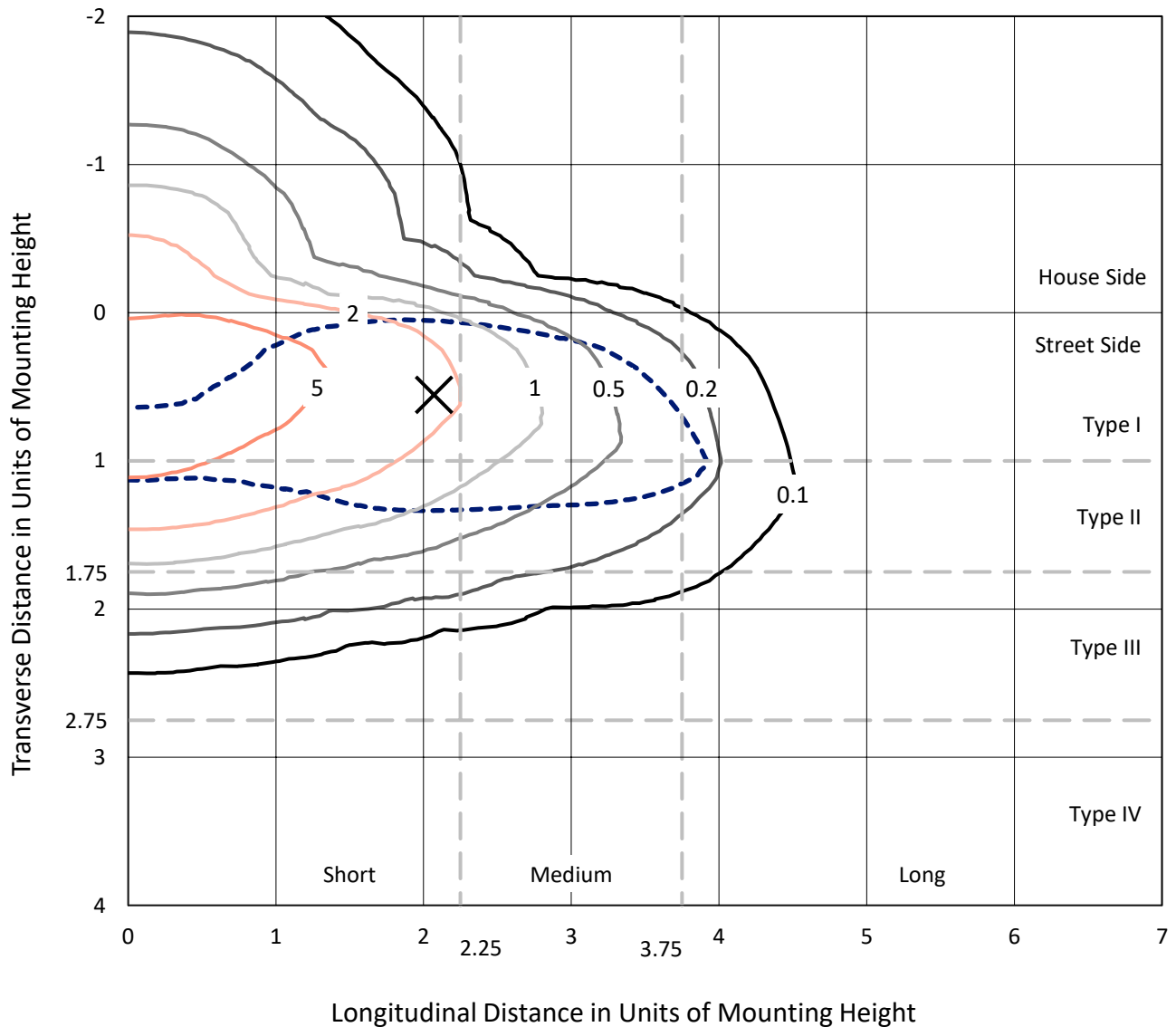
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

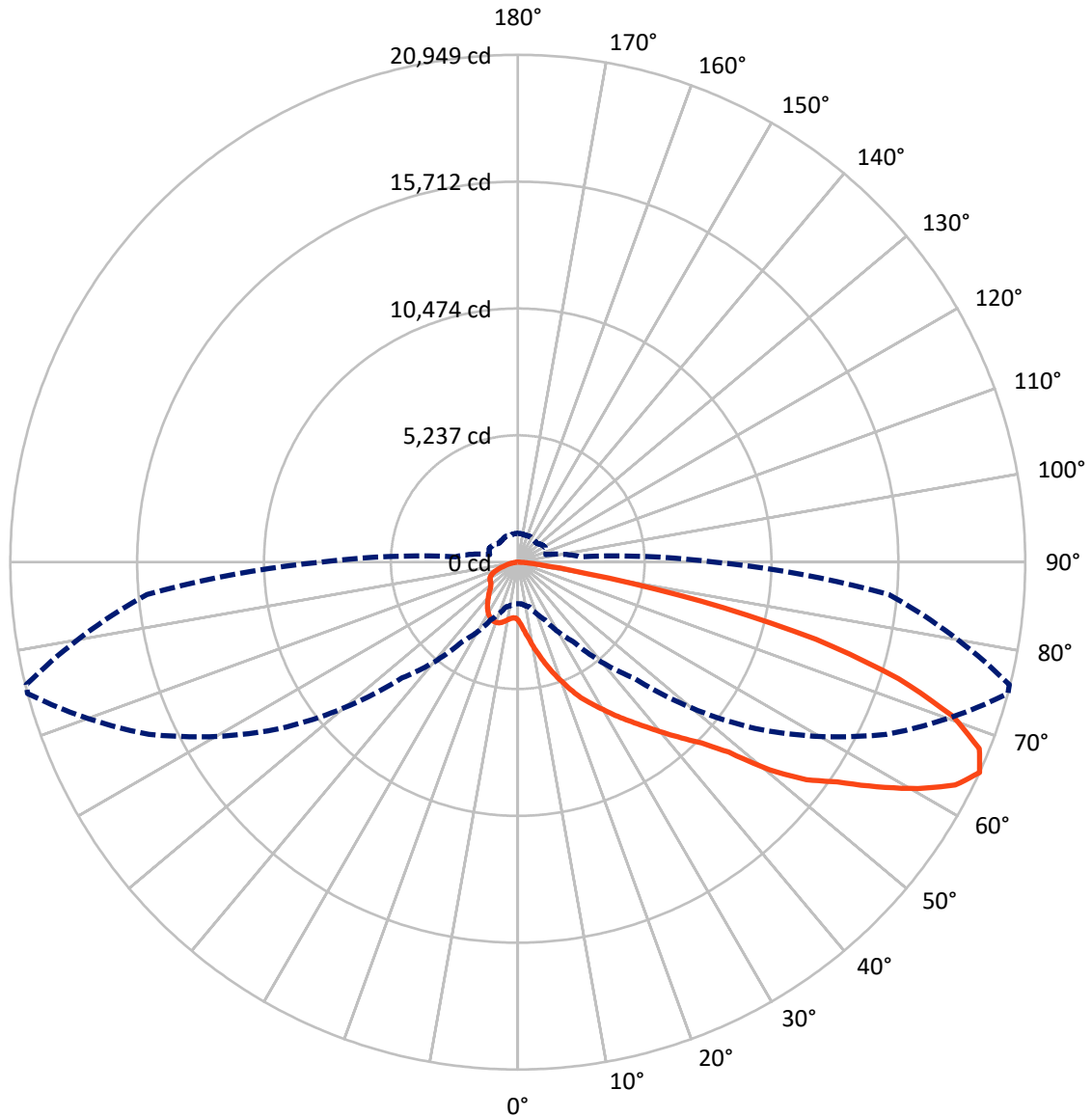
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4328.1	0.0	4328.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	21416.9	0.0	21416.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	25745.0	0.0	25745.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	1.1
10°-20°	1138.3	4.4
20°-30°	2198.9	8.5
30°-40°	3571.7	13.9
40°-50°	4913.1	19.1
50°-60°	5800.7	22.5
60°-70°	5082.4	19.7
70°-80°	2426.4	9.4
80°-90°	322.9	1.3
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°	25745.0	100.0
0°-180°	25745.0	100.0

Coefficient of Utilization



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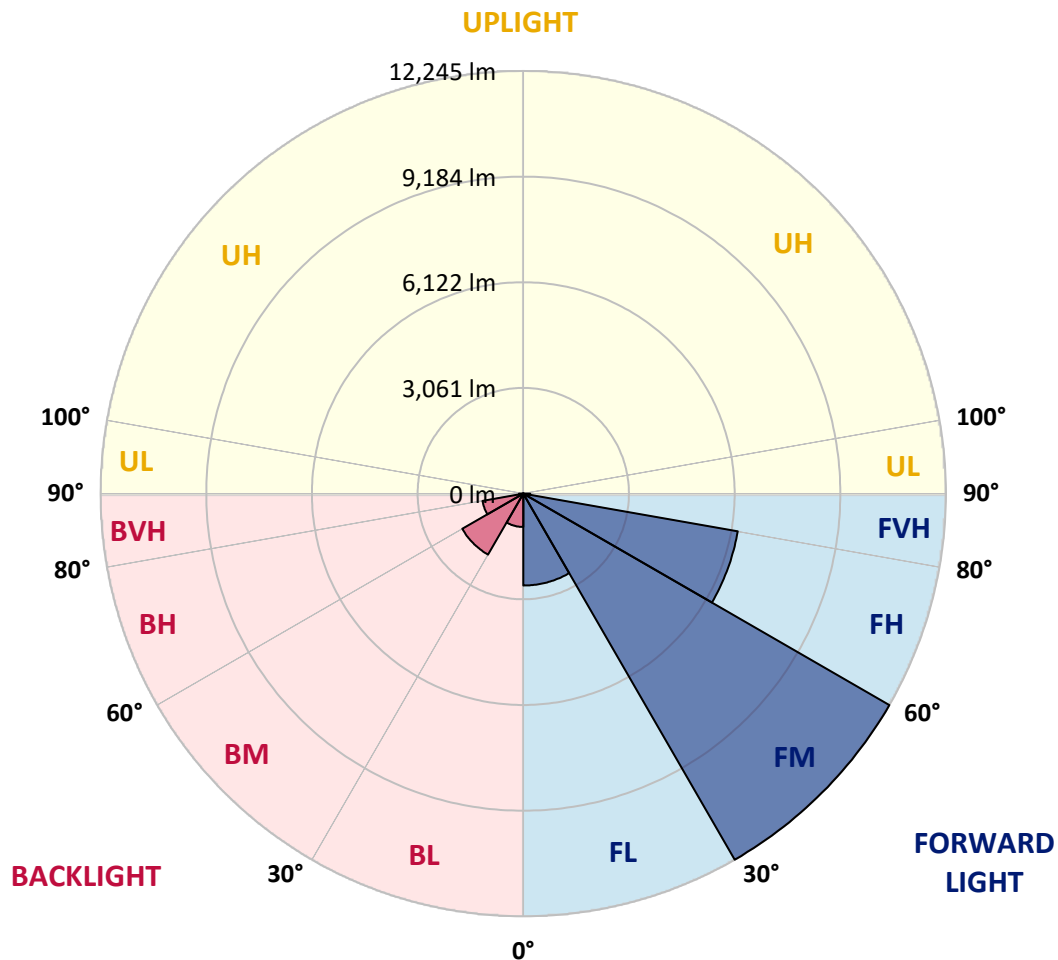
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2661.6	10.3			
FM (30°-60°)	12244.9	47.6			
FH (60°-80°)	6308.7	24.5			G3/7500
FVH (80°-90°)	201.8	0.8			G2/225
BL (0°-30°)	966.2	3.8	B2/1000		
BM (30°-60°)	2040.7	7.9	B2/2500		
BH (60°-80°)	1200.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	121.1	0.5			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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0
2.5°	3178.2	3157.3	3134.9	3073.5	3007.8	2933.8	2827.7	2725.8	2590.3	2586.1	2485.6
5°	4059.3	4045.4	3946.2	3889.0	3736.8	3534.3	3362.5	3095.8	2848.7	2819.3	2623.8
7.5°	4869.3	4814.8	4777.1	4673.8	4522.9	4263.2	3930.9	3570.6	3157.3	3118.2	2794.2
10°	5479.5	5473.9	5454.3	5365.0	5251.9	4993.5	4624.9	4108.2	3548.3	3471.5	3000.9
12.5°	5936.1	5940.3	5937.5	5936.1	5855.1	5635.9	5236.5	4691.9	3943.4	3889.0	3239.7
15°	6236.3	6278.2	6295.0	6364.8	6371.8	6225.2	5881.6	5256.1	4388.9	4307.9	3496.6
17.5°	6434.6	6455.6	6533.8	6652.5	6748.8	6722.3	6416.5	5778.3	4844.1	4708.7	3763.3
20°	6624.5	6660.8	6720.9	6882.9	7053.2	7131.4	6916.4	6313.1	5295.2	5208.6	4057.9
22.5°	7019.7	7071.4	7092.3	7174.7	7319.9	7458.2	7360.4	6825.6	5789.5	5672.2	4370.7
25°	7688.6	7743.0	7684.4	7664.8	7712.3	7780.7	7759.8	7308.8	6255.9	6088.3	4666.8
27.5°	8559.9	8566.9	8452.4	8343.5	8226.2	8191.3	8127.1	7737.5	6660.8	6521.2	4964.2
30°	9495.5	9462.0	9272.1	9075.2	8876.9	8681.4	8497.1	8150.8	7111.9	6951.3	5256.1
32.5°	10364.1	10345.9	10135.1	9829.3	9494.1	9309.8	8937.0	8568.3	7595.0	7440.0	5556.3
35°	11014.8	11041.3	10809.5	10475.8	10109.9	9946.6	9476.0	9006.8	8094.9	7926.0	5883.0
37.5°	11477.0	11463.1	11257.8	10968.7	10647.6	10505.1	10105.8	9485.8	8632.6	8470.6	6240.5
40°	11641.8	11633.4	11481.2	11270.4	11066.5	11016.2	10764.9	10002.4	9248.4	9058.5	6670.6
42.5°	11537.1	11555.2	11454.7	11397.4	11359.7	11396.0	11419.8	10679.7	9920.0	9745.5	7137.0
45°	11215.9	11206.1	11192.2	11285.7	11498.0	11736.8	12067.7	11319.2	10650.4	10510.7	7762.6
47.5°	10642.0	10711.8	10746.7	11005.0	11468.6	12034.2	12813.4	12176.6	11710.2	11588.7	8716.3
50°	9839.0	9894.9	10101.6	10561.0	11252.2	12145.9	13542.3	13578.6	13478.1	13250.5	9752.5
52.5°	8585.1	8671.7	9097.6	9939.6	10808.1	12099.8	13983.6	14780.9	14913.6	14743.2	10773.2
55°	7181.7	7303.2	7752.8	8857.4	10196.5	11848.5	14288.0	15477.7	16006.9	15849.2	11756.3
57.5°	5807.6	5936.1	6398.3	7468.0	9129.7	11292.7	14487.7	16254.1	17495.5	17290.2	12979.6
60°	4352.6	4486.6	4883.2	5985.0	7610.4	10206.3	14352.2	16927.2	18982.7	18894.7	14204.2
62.5°	2808.2	2956.2	3301.1	4212.9	5849.5	8721.9	13627.5	17298.6	20270.2	20164.0	15097.9
65°	1710.6	1727.3	1917.3	2615.5	4003.5	6753.0	11970.0	16805.7	20948.8	20916.7	15370.2
67.5°	1105.9	1132.5	1219.1	1566.8	2400.4	4690.5	9570.9	15178.9	20552.2	20541.1	14807.4
70°	934.2	942.6	981.7	1057.1	1395.0	2844.5	6720.9	12585.8	19045.5	19045.5	13454.3
72.5°	835.0	846.2	860.2	883.9	995.6	1611.4	4010.5	9797.2	16444.0	16552.9	11451.9
75°	758.2	755.5	763.8	768.0	849.0	1052.9	2073.7	7245.9	12721.2	12503.4	8293.2
77.5°	649.3	653.5	649.3	667.5	749.9	801.5	1052.9	4862.3	7709.5	7427.5	4162.7
80°	533.4	540.4	547.4	558.6	640.9	608.8	632.6	2216.1	2851.5	2791.4	1286.1
82.5°	400.8	410.5	421.7	448.2	504.1	402.2	399.4	946.8	1029.1	942.6	473.4
85°	162.0	191.3	289.1	315.6	317.0	220.6	245.8	395.2	420.3	410.5	185.7
87.5°	37.7	44.7	93.6	141.0	129.9	82.4	90.8	128.5	146.6	135.5	62.8
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°	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0	2392.0
2.5°	2439.5	2390.6	2306.9	2242.6	2196.5	2156.0	2130.9	2115.5	2110.0	2108.6	2110.0
5°	2521.9	2435.3	2302.7	2218.9	2172.8	2146.3	2130.9	2129.5	2130.9	2132.3	2128.1
7.5°	2635.0	2510.7	2337.6	2259.4	2224.5	2204.9	2197.9	2195.1	2196.5	2195.1	2195.1
10°	2785.8	2615.5	2406.0	2325.0	2295.7	2273.3	2262.2	2255.2	2249.6	2244.0	2241.2
12.5°	2952.0	2731.4	2480.0	2401.8	2359.9	2325.0	2299.9	2281.7	2269.2	2256.6	2253.8
15°	3137.7	2854.2	2562.4	2453.5	2393.4	2341.8	2298.5	2269.2	2246.8	2228.7	2227.3
17.5°	3315.1	2970.1	2618.3	2477.2	2389.2	2316.6	2259.4	2218.9	2191.0	2167.2	2164.4
20°	3505.0	3080.5	2643.4	2461.9	2347.4	2259.4	2184.0	2135.1	2103.0	2076.4	2072.3
22.5°	3696.3	3174.0	2640.6	2413.0	2274.7	2171.4	2091.8	2040.1	2002.4	1975.9	1966.1
25°	3879.2	3249.4	2605.7	2334.8	2174.2	2066.7	1985.7	1938.2	1904.7	1872.6	1872.6
27.5°	4044.0	3294.1	2540.1	2239.8	2070.9	1957.8	1893.5	1850.2	1819.5	1798.6	1786.0
30°	4206.0	3315.1	2450.7	2119.7	1961.9	1865.6	1813.9	1788.8	1760.9	1737.1	1734.3
32.5°	4351.2	3310.9	2339.0	2002.4	1858.6	1790.2	1769.2	1749.7	1720.4	1686.9	1678.5
35°	4492.2	3282.9	2206.3	1874.0	1772.0	1745.5	1751.1	1723.2	1670.1	1628.2	1621.2
37.5°	4645.8	3232.7	2061.1	1769.2	1699.4	1724.6	1738.5	1677.1	1590.5	1524.9	1509.5
40°	4823.2	3175.4	1910.3	1664.5	1642.2	1705.0	1705.0	1591.9	1473.2	1432.7	1421.5
42.5°	5031.2	3127.9	1784.6	1576.5	1594.7	1657.5	1650.5	1478.8	1429.9	1409.0	1403.4
45°	5360.8	3111.2	1654.7	1499.7	1555.6	1601.7	1544.4	1439.7	1411.8	1395.0	1389.4
47.5°	5881.6	3130.7	1540.2	1442.5	1510.9	1545.8	1425.7	1413.2	1393.6	1369.9	1367.1
50°	6364.8	3112.6	1459.2	1410.4	1471.8	1478.8	1376.9	1381.0	1369.9	1343.3	1337.8
52.5°	6760.0	3055.3	1407.6	1393.6	1438.3	1361.5	1330.8	1346.1	1341.9	1308.4	1302.8
55°	7194.3	3020.4	1382.4	1393.6	1416.0	1259.6	1287.5	1309.8	1304.2	1280.5	1279.1
57.5°	7720.7	3027.4	1364.3	1397.8	1393.6	1207.9	1244.2	1270.7	1269.3	1262.3	1262.3
60°	8259.7	3030.2	1336.4	1396.4	1367.1	1167.4	1199.5	1237.2	1240.0	1244.2	1244.2
62.5°	8438.5	2908.7	1281.9	1371.3	1308.4	1128.3	1157.6	1209.3	1206.5	1217.7	1219.1
65°	8104.7	2572.2	1200.9	1314.0	1233.0	1100.4	1125.5	1173.0	1157.6	1186.9	1192.5
67.5°	7377.2	2128.1	1075.2	1210.7	1149.2	1071.0	1104.6	1122.7	1094.8	1152.0	1153.4
70°	6376.0	1661.7	916.0	1064.1	1054.3	1040.3	1087.8	1059.9	1020.8	1090.6	1076.6
72.5°	5331.5	1269.3	731.7	870.0	927.2	994.2	1058.5	978.9	924.4	945.4	920.2
75°	4004.9	938.4	587.9	681.4	772.2	928.6	1031.9	881.1	797.3	777.8	772.2
77.5°	2041.5	613.0	439.9	509.7	579.5	839.2	995.6	766.6	660.5	629.8	615.8
80°	728.9	381.2	310.0	351.9	391.0	721.9	870.0	634.0	512.5	506.9	512.5
82.5°	337.9	245.8	208.1	230.4	231.8	481.8	663.3	473.4	389.6	592.1	499.9
85°	145.2	122.9	117.3	114.5	106.1	215.0	372.8	254.1	396.6	177.3	163.4
87.5°	43.3	48.9	43.3	32.1	23.7	23.7	37.7	14.0	9.8	7.0	7.0
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)