

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: P454821

Luminaire Tested: **GALN-SA6A-722-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454821
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-722-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 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: 20316 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

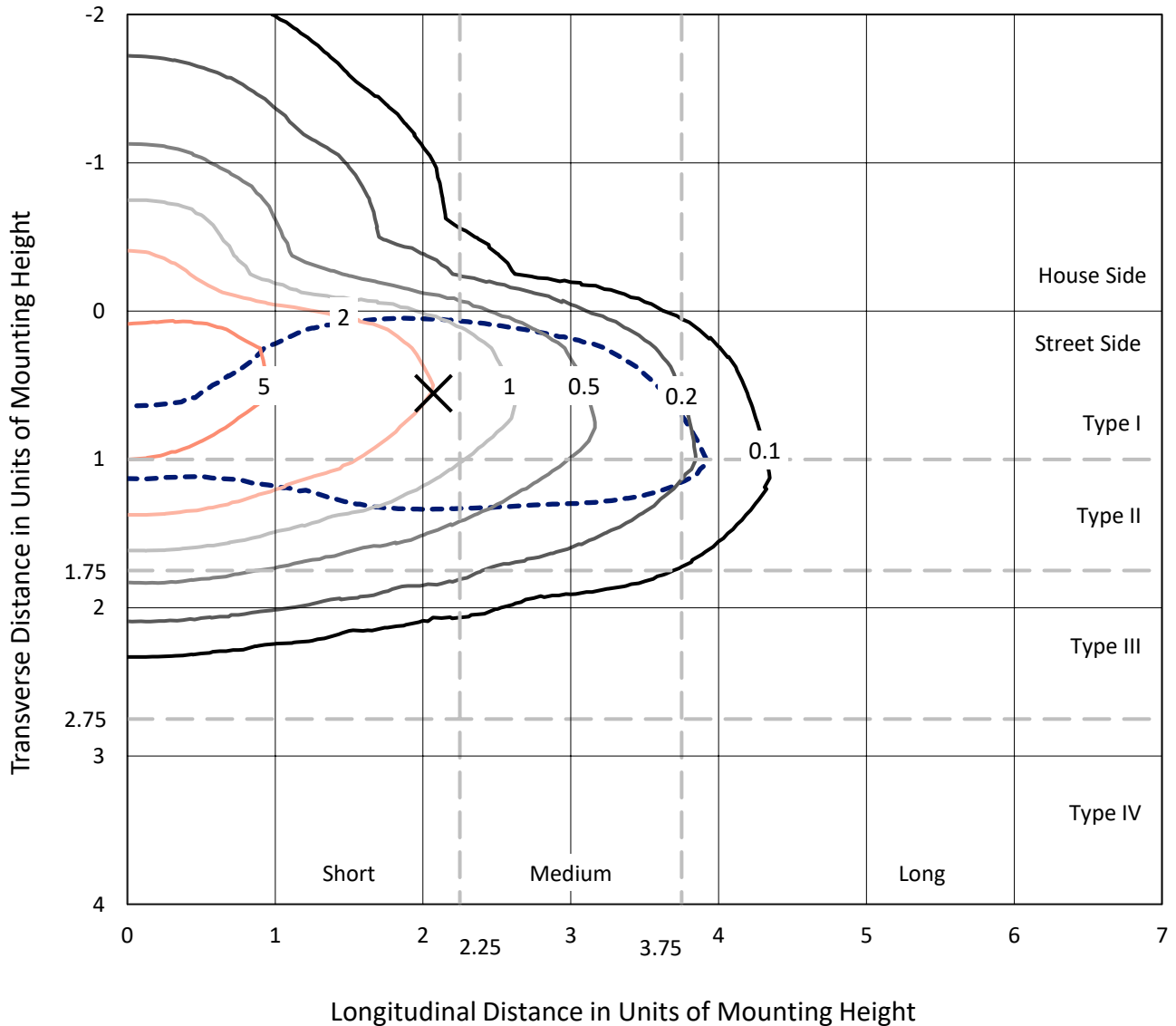
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

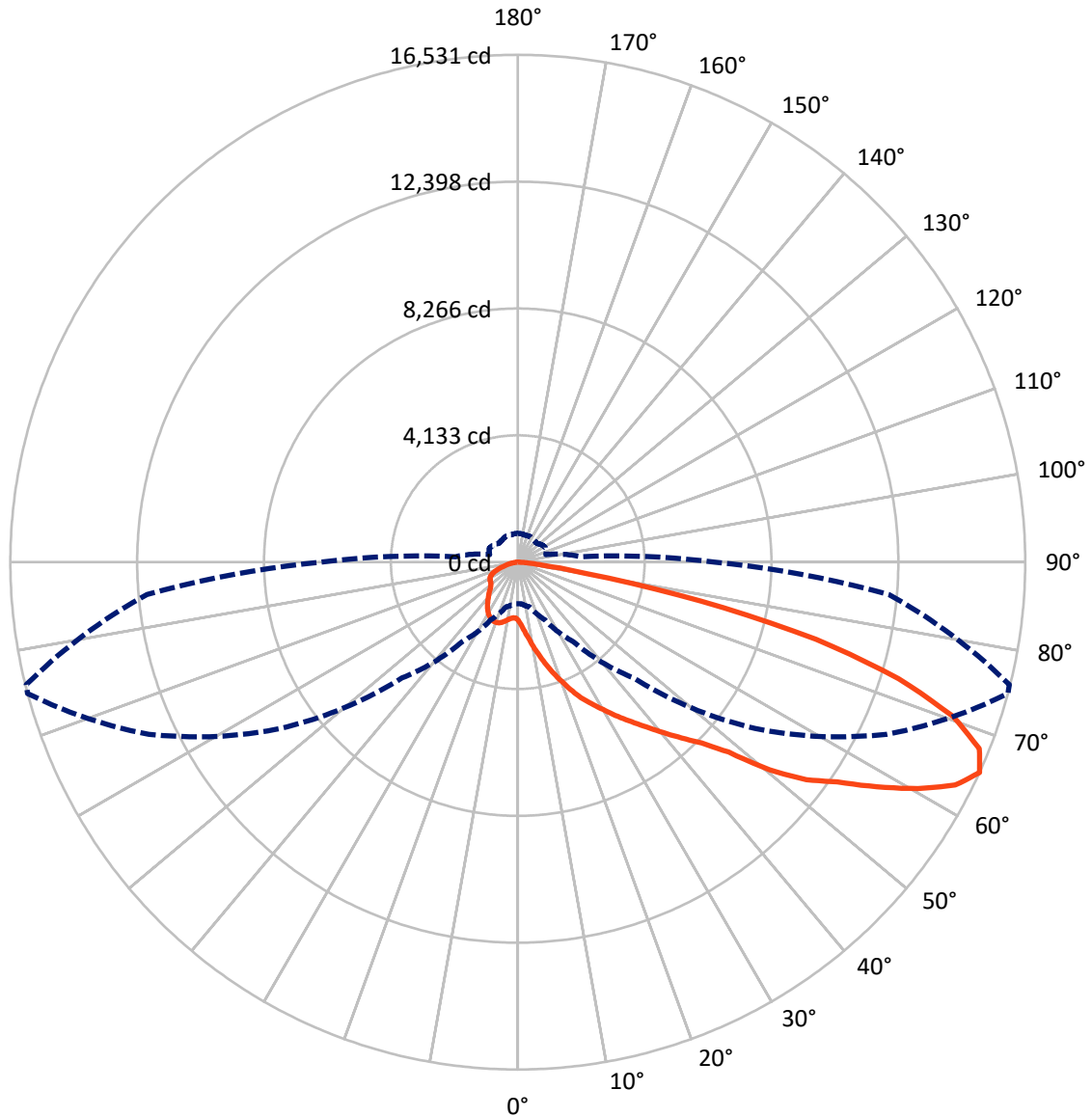
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	3415.4	0.0	3415.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	16900.6	0.0	16900.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	20316.0	0.0	20316.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.3	1.1
10°-20°	898.3	4.4
20°-30°	1735.2	8.5
30°-40°	2818.5	13.9
40°-50°	3877.1	19.1
50°-60°	4577.5	22.5
60°-70°	4010.6	19.7
70°-80°	1914.7	9.4
80°-90°	254.8	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°	20316.0	100.0
0°-180°	20316.0	100.0



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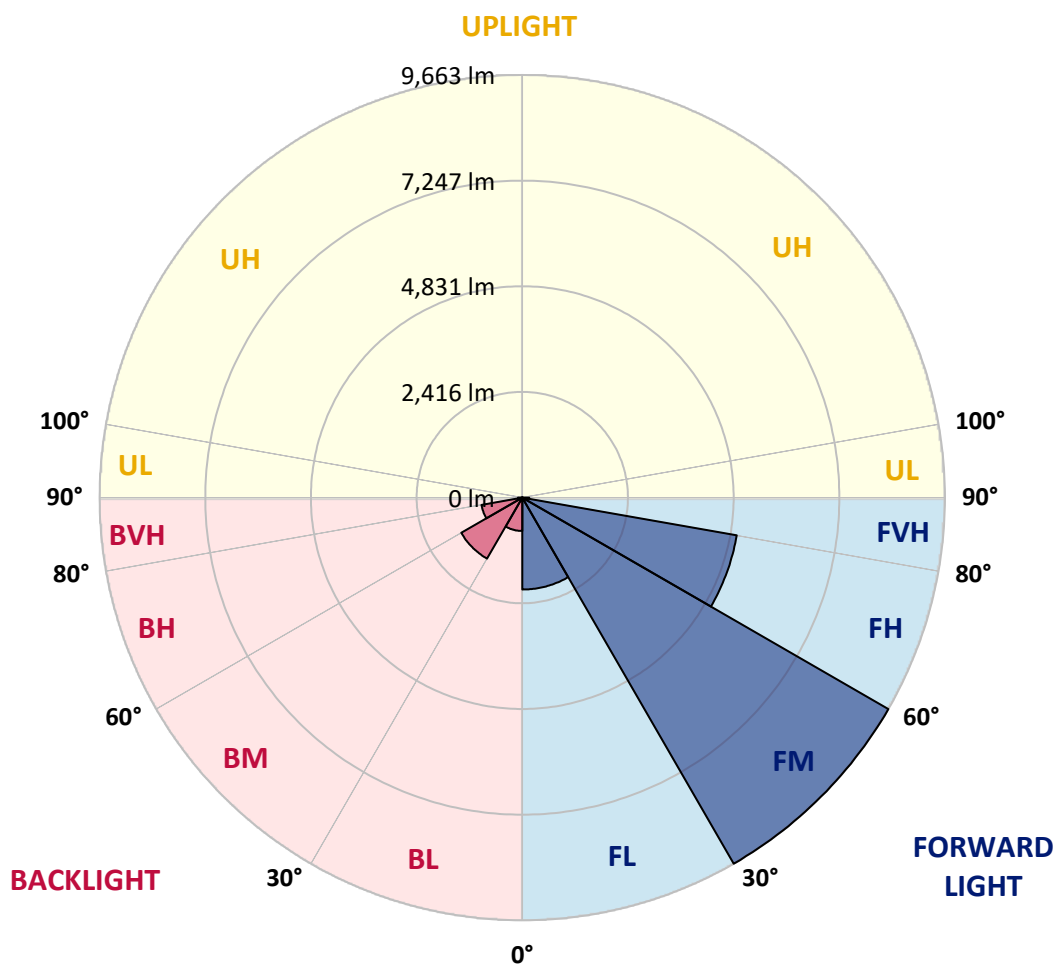
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2100.3	10.3			
FM (30°-60°)	9662.7	47.6			
FH (60°-80°)	4978.3	24.5			G2/5000
FVH (80°-90°)	159.2	0.8			G2/225
BL (0°-30°)	762.5	3.8	B2/1000		
BM (30°-60°)	1610.3	7.9	B2/2500		
BH (60°-80°)	947.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	95.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6
2.5°	2508.0	2491.5	2473.8	2425.4	2373.6	2315.2	2231.4	2151.0	2044.1	2040.8	1961.4
5°	3203.3	3192.3	3114.1	3068.9	2948.8	2789.0	2653.5	2443.0	2247.9	2224.8	2070.5
7.5°	3842.4	3799.5	3769.7	3688.2	3569.2	3364.2	3101.9	2817.6	2491.5	2460.6	2205.0
10°	4324.0	4319.6	4304.2	4233.6	4144.4	3940.5	3649.6	3241.9	2800.0	2739.4	2368.1
12.5°	4684.3	4687.6	4685.4	4684.3	4620.4	4447.4	4132.3	3702.5	3111.9	3068.9	2556.5
15°	4921.2	4954.3	4967.5	5022.6	5028.1	4912.4	4641.3	4147.7	3463.4	3399.5	2759.2
17.5°	5077.7	5094.2	5155.9	5249.6	5325.6	5304.7	5063.4	4559.8	3822.6	3715.7	2969.7
20°	5227.6	5256.2	5303.6	5431.4	5565.9	5627.6	5457.9	4981.8	4178.5	4110.2	3202.2
22.5°	5539.4	5580.2	5596.7	5661.7	5776.3	5885.4	5808.3	5386.3	4568.6	4476.1	3449.1
25°	6067.2	6110.2	6063.9	6048.5	6086.0	6140.0	6123.4	5767.5	4936.7	4804.4	3682.7
27.5°	6754.9	6760.4	6670.0	6584.1	6491.5	6463.9	6413.3	6105.8	5256.2	5146.0	3917.4
30°	7493.2	7466.7	7316.8	7161.5	7005.0	6850.7	6705.3	6432.0	5612.2	5485.4	4147.7
32.5°	8178.6	8164.2	7997.8	7756.5	7492.0	7346.6	7052.4	6761.5	5993.4	5871.1	4384.6
35°	8692.1	8713.0	8530.1	8266.7	7978.0	7849.1	7477.7	7107.5	6387.9	6254.6	4642.4
37.5°	9056.8	9045.8	8883.8	8655.7	8402.2	8289.8	7974.7	7485.4	6812.2	6684.3	4924.5
40°	9186.8	9180.2	9060.1	8893.7	8732.8	8693.2	8494.8	7893.2	7298.1	7148.2	5263.9
42.5°	9104.2	9118.5	9039.2	8994.0	8964.2	8992.9	9011.6	8427.6	7828.1	7690.4	5632.0
45°	8850.7	8843.0	8832.0	8905.8	9073.3	9261.8	9522.9	8932.3	8404.5	8294.3	6125.7
47.5°	8397.8	8452.9	8480.5	8684.3	9050.2	9496.5	10111.3	9608.9	9240.8	9145.0	6878.3
50°	7764.2	7808.3	7971.4	8333.9	8879.4	9584.6	10686.6	10715.2	10635.9	10456.3	7695.9
52.5°	6774.7	6843.0	7179.1	7843.6	8529.0	9548.3	11034.8	11664.0	11768.7	11634.2	8501.4
55°	5667.2	5763.1	6117.9	6989.6	8046.3	9349.9	11275.0	12213.8	12631.5	12507.0	9277.2
57.5°	4582.9	4684.3	5049.1	5893.1	7204.4	8911.3	11432.6	12826.5	13806.1	13644.1	10242.5
60°	3434.7	3540.5	3853.5	4722.9	6005.5	8054.0	11325.7	13357.6	14979.7	14910.3	11208.9
62.5°	2216.0	2332.8	2605.0	3324.5	4616.0	6882.7	10753.8	13650.8	15995.7	15911.9	11914.1
65°	1349.9	1363.1	1513.0	2063.9	3159.2	5329.0	9445.8	13261.8	16531.2	16505.9	12129.0
67.5°	872.7	893.7	962.0	1236.4	1894.2	3701.4	7552.7	11978.0	16218.3	16209.4	11684.9
70°	737.2	743.8	774.7	834.2	1100.8	2244.6	5303.6	9931.7	15029.3	15029.3	10617.1
72.5°	659.0	667.8	678.8	697.5	785.7	1271.6	3164.8	7731.2	12976.4	13062.3	9037.0
75°	598.4	596.1	602.8	606.1	670.0	830.9	1636.4	5717.9	10038.6	9866.7	6544.4
77.5°	512.4	515.7	512.4	526.7	591.7	632.5	830.9	3836.9	6083.8	5861.2	3284.9
80°	420.9	426.4	432.0	440.8	505.8	480.4	499.2	1748.8	2250.1	2202.8	1014.9
82.5°	316.3	324.0	332.8	353.7	397.8	317.4	315.2	747.1	812.1	743.8	373.6
85°	127.8	151.0	228.1	249.0	250.1	174.1	193.9	311.8	331.7	324.0	146.6
87.5°	29.8	35.3	73.8	111.3	102.5	65.0	71.6	101.4	115.7	106.9	49.6
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°	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6	1887.6
2.5°	1925.1	1886.5	1820.4	1769.7	1733.3	1701.4	1681.6	1669.4	1665.0	1663.9	1665.0
5°	1990.1	1921.8	1817.1	1751.0	1714.6	1693.7	1681.6	1680.4	1681.6	1682.7	1679.3
7.5°	2079.3	1981.3	1844.6	1782.9	1755.4	1740.0	1734.4	1732.2	1733.3	1732.2	1732.2
10°	2198.4	2063.9	1898.6	1834.7	1811.6	1793.9	1785.1	1779.6	1775.2	1770.8	1768.6
12.5°	2329.5	2155.4	1957.0	1895.3	1862.3	1834.7	1814.9	1800.6	1790.6	1780.7	1778.5
15°	2476.0	2252.4	2022.0	1936.1	1888.7	1847.9	1813.8	1790.6	1773.0	1758.7	1757.6
17.5°	2616.0	2343.8	2066.1	1954.8	1885.4	1828.1	1782.9	1751.0	1728.9	1710.2	1708.0
20°	2765.9	2430.9	2086.0	1942.7	1852.4	1782.9	1723.4	1684.9	1659.5	1638.6	1635.3
22.5°	2916.8	2504.7	2083.8	1904.1	1795.1	1713.5	1650.7	1609.9	1580.2	1559.2	1551.5
25°	3061.2	2564.2	2056.2	1842.4	1715.7	1630.9	1567.0	1529.5	1503.0	1477.7	1477.7
27.5°	3191.2	2599.5	2004.4	1767.5	1634.2	1544.9	1494.2	1460.1	1435.8	1419.3	1409.4
30°	3319.0	2616.0	1933.9	1672.7	1548.2	1472.2	1431.4	1411.6	1389.5	1370.8	1368.6
32.5°	3433.6	2612.7	1845.7	1580.2	1466.7	1412.7	1396.2	1380.7	1357.6	1331.1	1324.5
35°	3544.9	2590.6	1741.1	1478.8	1398.4	1377.4	1381.8	1359.8	1317.9	1284.9	1279.3
37.5°	3666.1	2551.0	1626.5	1396.2	1341.1	1360.9	1371.9	1323.4	1255.1	1203.3	1191.2
40°	3806.1	2505.8	1507.4	1313.5	1295.9	1345.5	1345.5	1256.2	1162.5	1130.6	1121.8
42.5°	3970.3	2468.3	1408.3	1244.1	1258.4	1308.0	1302.5	1166.9	1128.4	1111.9	1107.4
45°	4230.3	2455.1	1305.8	1183.5	1227.6	1263.9	1218.7	1136.1	1114.1	1100.8	1096.4
47.5°	4641.3	2470.5	1215.4	1138.3	1192.3	1219.8	1125.1	1115.2	1099.7	1081.0	1078.8
50°	5022.6	2456.2	1151.5	1113.0	1161.4	1166.9	1086.5	1089.8	1081.0	1060.1	1055.7
52.5°	5334.5	2411.0	1110.7	1099.7	1135.0	1074.4	1050.1	1062.3	1059.0	1032.5	1028.1
55°	5677.2	2383.5	1090.9	1099.7	1117.4	993.9	1016.0	1033.6	1029.2	1010.5	1009.4
57.5°	6092.6	2389.0	1076.6	1103.0	1099.7	953.2	981.8	1002.8	1001.7	996.1	996.1
60°	6517.9	2391.2	1054.6	1101.9	1078.8	921.2	946.6	976.3	978.5	981.8	981.8
62.5°	6659.0	2295.3	1011.6	1082.1	1032.5	890.4	913.5	954.3	952.1	960.9	962.0
65°	6395.6	2029.8	947.7	1036.9	973.0	868.3	888.2	925.6	913.5	936.6	941.1
67.5°	5821.5	1679.3	848.5	955.4	906.9	845.2	871.6	886.0	863.9	909.1	910.2
70°	5031.4	1311.3	722.9	839.7	832.0	820.9	858.4	836.4	805.5	860.6	849.6
72.5°	4207.2	1001.7	577.4	686.5	731.7	784.6	835.3	772.5	729.5	746.0	726.2
75°	3160.3	740.5	463.9	537.7	609.4	732.8	814.3	695.3	629.2	613.8	609.4
77.5°	1611.0	483.7	347.1	402.2	457.3	662.3	785.7	605.0	521.2	497.0	486.0
80°	575.2	300.8	244.6	277.7	308.5	569.7	686.5	500.3	404.4	400.0	404.4
82.5°	266.7	193.9	164.2	181.8	182.9	380.2	523.4	373.6	307.4	467.2	394.5
85°	114.6	97.0	92.6	90.4	83.7	169.7	294.2	200.6	312.9	139.9	128.9
87.5°	34.2	38.6	34.2	25.3	18.7	18.7	29.8	11.0	7.7	5.5	5.5
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)