

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: P454834

Luminaire Tested: **GALN-SA6A-727-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454834
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-SA6A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22901 lumens
Efficiency: N/A
Efficacy: 125.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

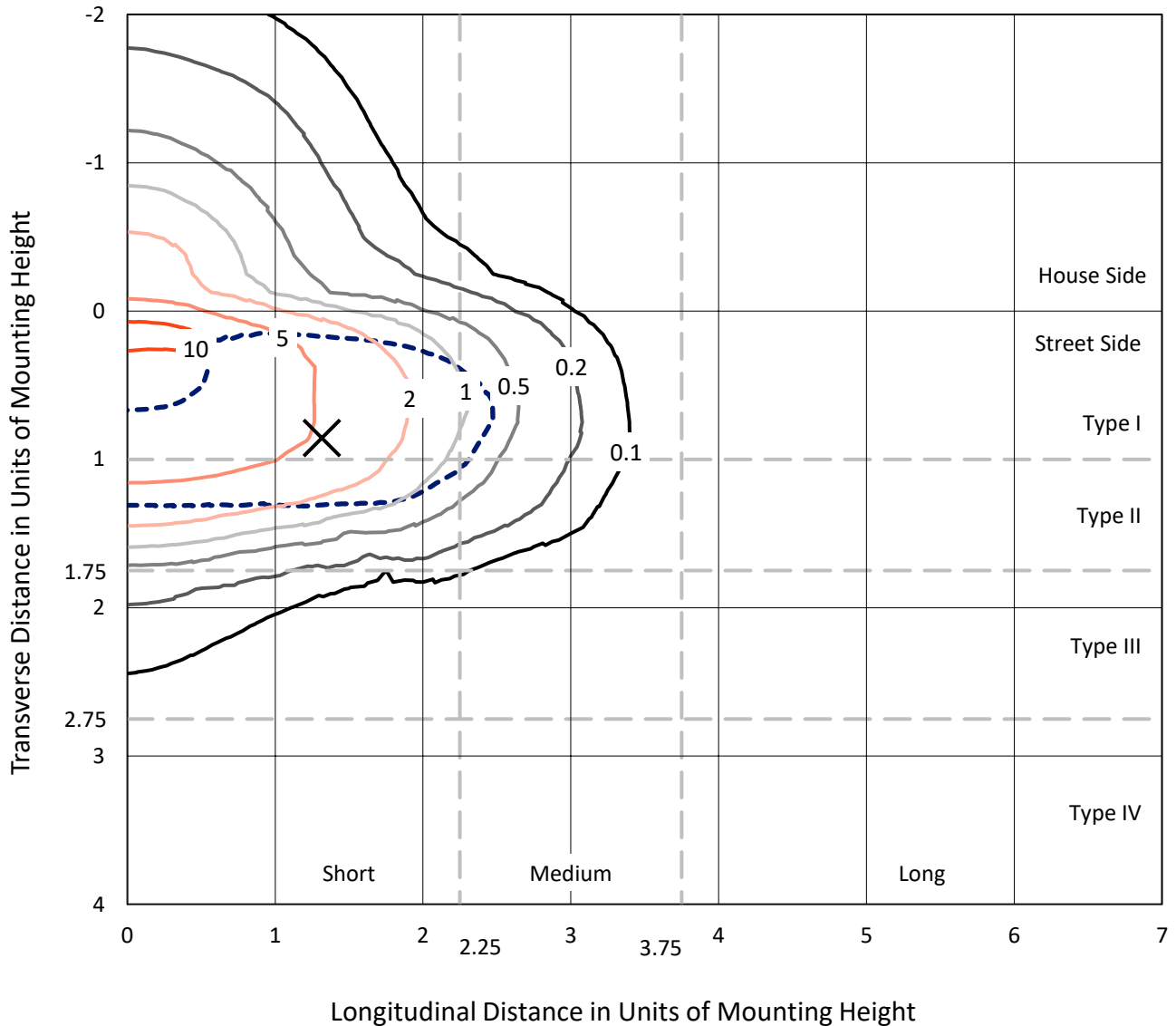
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

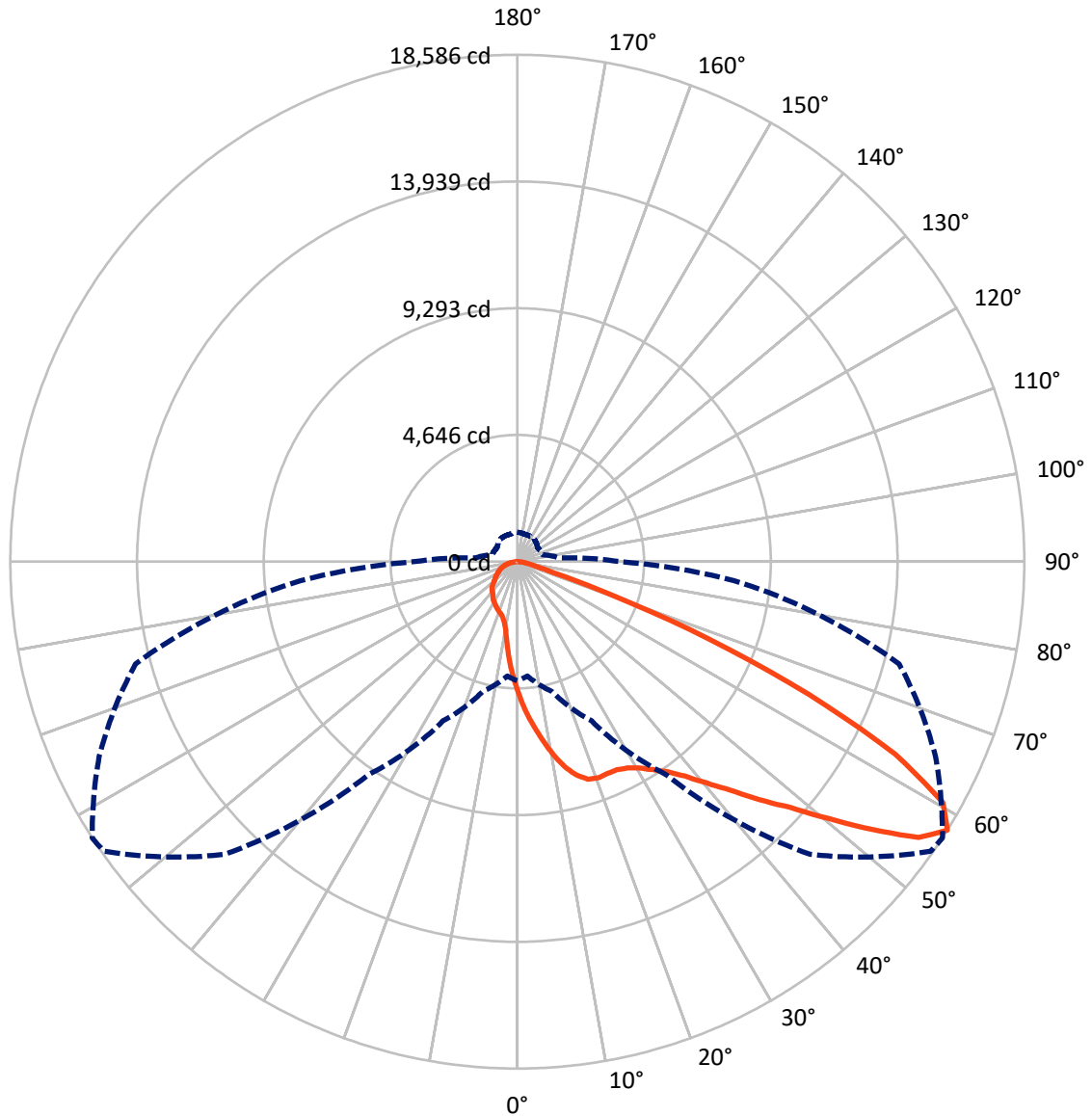
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	3482.6	0.0	3482.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	19418.4	0.0	19418.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	22901.0	0.0	22901.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.4	2.0
10°-20°	1362.7	6.0
20°-30°	2262.9	9.9
30°-40°	3408.5	14.9
40°-50°	5117.6	22.3
50°-60°	5736.1	25.0
60°-70°	3357.1	14.7
70°-80°	993.0	4.3
80°-90°	200.7	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°	22901.0	100.0
0°-180°	22901.0	100.0

Coefficient of Utilization



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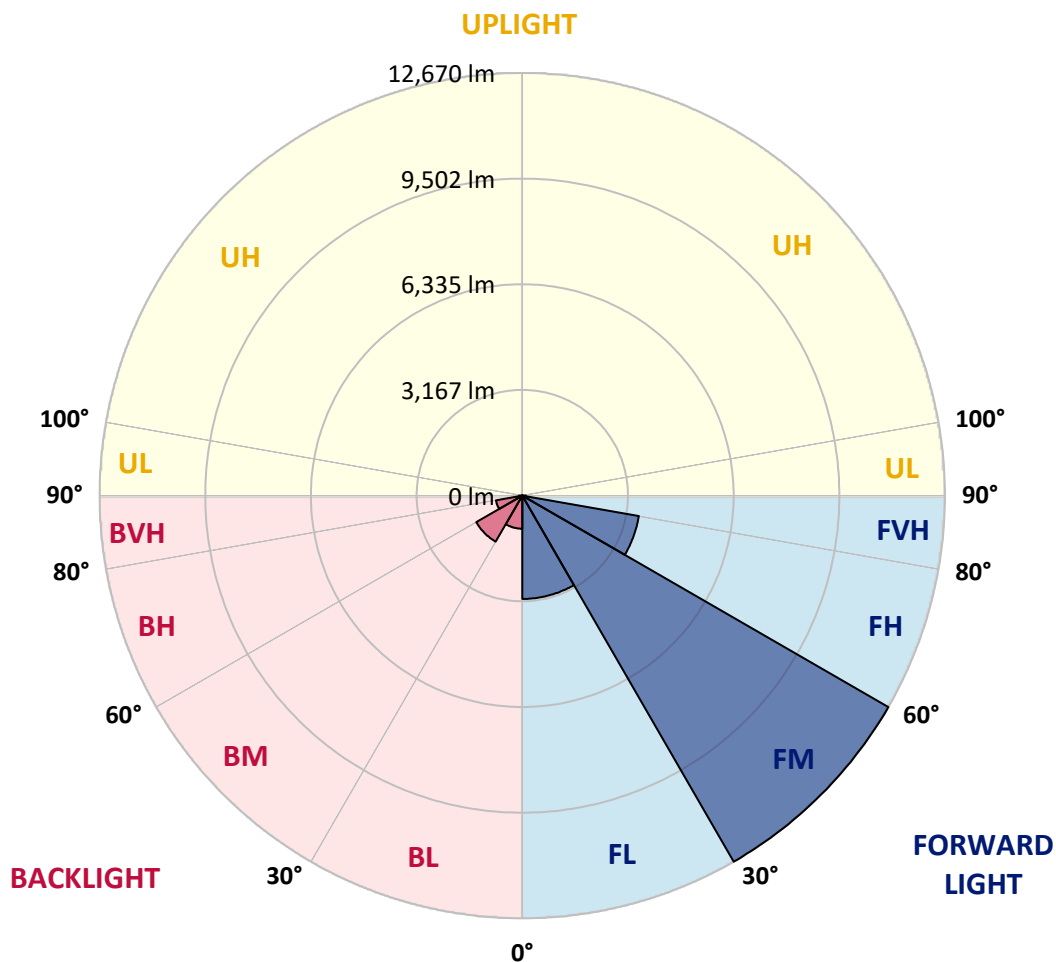
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3095.7	13.5			
FM	(30°-60°)	12669.8	55.3			
FH	(60°-80°)	3548.7	15.5			G2/5000
FVH	(80°-90°)	104.1	0.5			G2/225
BL	(0°-30°)	992.3	4.3	B2/1000		
BM	(30°-60°)	1592.4	7.0	B2/2500		
BH	(60°-80°)	801.3	3.5	B2/1000		G2/1000
BVH	(80°-90°)	96.6	0.4			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°	57°	65°	75°	85°
0°	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2
2.5°	5978.3	5913.1	5861.7	5816.6	5757.7	5598.5	5439.3	5436.8	5310.2	5114.6	4914.0
5°	6952.4	6864.6	6875.9	6735.5	6595.1	6364.4	6027.2	6009.7	5740.1	5374.1	5001.8
7.5°	7586.7	7587.9	7552.8	7472.6	7320.9	7058.9	6676.6	6590.1	6215.2	5659.9	5102.1
10°	7554.1	7587.9	7646.8	7715.8	7762.2	7633.0	7284.6	7179.2	6691.6	6005.9	5213.6
12.5°	7120.3	7173.0	7257.0	7430.0	7709.5	7922.6	7803.5	7718.3	7243.2	6350.6	5336.5
15°	6849.6	6880.9	6927.3	7043.9	7344.7	7854.9	8163.3	8118.2	7763.4	6740.5	5474.4
17.5°	6766.8	6798.2	6813.2	6884.7	7099.0	7621.8	8305.0	8385.2	8224.7	7099.0	5613.5
20°	6849.6	6864.6	6864.6	6907.2	7075.2	7485.1	8298.7	8460.4	8603.3	7529.0	5743.9
22.5°	7066.4	7072.7	7063.9	7079.0	7204.3	7522.7	8239.8	8440.4	8909.2	7893.8	5845.4
25°	7418.7	7428.7	7371.0	7335.9	7427.5	7688.2	8272.4	8456.6	9148.6	8242.3	5913.1
27.5°	7818.6	7831.1	7760.9	7679.4	7722.0	7892.5	8400.2	8565.7	9327.9	8585.8	5955.8
30°	8308.7	8313.7	8195.9	8098.1	8070.5	8197.2	8618.4	8772.5	9551.0	8990.7	6019.7
32.5°	8810.2	8847.8	8696.1	8558.2	8511.8	8550.7	8940.5	9089.7	9816.8	9425.7	6122.5
35°	9492.1	9498.4	9316.6	9148.6	8995.7	9045.8	9353.0	9460.8	10184.1	9928.3	6267.9
37.5°	10343.3	10400.9	10150.2	9836.8	9648.8	9576.1	9851.9	9969.7	10699.3	10545.1	6487.3
40°	11288.5	11309.8	11095.4	10899.9	10556.4	10345.8	10536.3	10664.2	11334.9	11281.0	6741.8
42.5°	11882.7	11929.1	11945.4	11925.3	11667.1	11313.6	11386.3	11446.4	12087.0	11971.7	7002.5
45°	12083.3	12152.2	12385.4	12879.3	12906.9	12558.4	12389.1	12446.8	12906.9	12668.7	7252.0
47.5°	11751.1	11868.9	12298.9	13311.8	14070.2	14096.5	13586.3	13459.7	13654.0	13246.6	7432.5
50°	10892.4	10917.4	11575.6	13042.2	14615.5	15566.9	15039.2	14803.5	14363.5	13674.0	7556.6
52.5°	9563.6	9592.4	10144.0	11789.9	14279.5	16594.9	16739.0	16317.8	15084.3	14006.2	7638.1
55°	7099.0	7265.7	7872.5	9463.3	12687.5	16498.4	18090.4	17851.0	15955.6	14269.5	7765.9
57.5°	4365.0	4212.0	4931.6	6438.4	9542.2	15172.1	18507.8	18585.6	16914.5	14490.1	7980.3
60°	2008.2	2038.3	2335.4	3320.7	5816.6	11868.9	17432.3	17923.7	17444.8	14482.6	8034.2
62.5°	1384.0	1356.4	1281.2	1457.9	2652.6	7506.4	14724.5	15556.9	16381.8	14032.6	7819.8
65°	1237.3	1209.7	1064.3	1015.4	1218.5	3271.8	10704.3	11754.8	13793.1	12896.8	7285.8
67.5°	1155.8	1118.2	967.8	872.5	870.0	1302.5	6311.8	7576.6	10230.5	10903.6	6313.0
70°	1070.6	1040.5	891.3	786.0	740.9	818.6	2774.2	3631.6	6642.7	7857.4	4917.8
72.5°	985.3	950.2	816.1	703.3	644.3	613.0	1063.0	1382.7	3753.2	4711.0	3014.9
75°	861.2	843.7	729.6	636.8	572.9	495.2	674.4	769.7	1795.1	2163.7	1513.1
77.5°	753.4	734.6	648.1	556.6	510.2	402.4	478.9	522.7	757.2	877.5	683.2
80°	551.6	570.4	546.6	491.4	455.0	315.9	322.2	358.5	450.0	497.7	417.4
82.5°	349.7	384.8	421.2	378.6	344.7	249.5	223.1	236.9	307.1	325.9	185.5
85°	146.7	149.2	244.4	230.7	196.8	147.9	134.1	141.7	164.2	171.7	86.5
87.5°	56.4	55.2	86.5	80.2	61.4	42.6	42.6	47.6	65.2	60.2	27.6
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°	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2	4811.2
2.5°	4827.5	4738.5	4561.8	4342.4	4181.9	4001.4	3842.2	3728.1	3685.5	3665.5	3627.9
5°	4823.8	4648.3	4282.2	3898.6	3590.3	3274.3	3007.3	2834.3	2819.3	2704.0	2692.7
7.5°	4825.0	4556.8	3973.8	3409.7	2939.6	2616.2	2395.6	2337.9	2269.0	2251.4	2260.2
10°	4828.8	4440.2	3642.9	2925.9	2470.8	2259.0	2176.2	2153.6	2156.2	2163.7	2164.9
12.5°	4833.8	4327.4	3299.4	2558.6	2207.6	2119.8	2111.0	2131.1	2152.4	2168.7	2172.5
15°	4840.1	4198.2	2964.7	2262.7	2075.9	2068.4	2097.2	2131.1	2161.2	2185.0	2188.7
17.5°	4832.5	4047.8	2683.9	2080.9	2003.2	2039.6	2087.2	2129.8	2157.4	2180.0	2182.5
20°	4815.0	3879.8	2413.1	1953.1	1958.1	2017.0	2068.4	2108.5	2138.6	2149.9	2158.7
22.5°	4747.3	3679.3	2177.5	1854.0	1904.2	1985.7	2047.1	2070.9	2037.1	2013.2	2019.5
25°	4632.0	3418.5	1958.1	1773.8	1855.3	1941.8	2004.5	1946.8	1919.2	1909.2	1914.2
27.5°	4487.8	3132.7	1792.6	1689.8	1792.6	1892.9	1875.4	1865.3	1852.8	1836.5	1840.3
30°	4332.4	2853.1	1652.2	1624.6	1724.9	1782.6	1790.1	1806.4	1792.6	1767.5	1777.6
32.5°	4188.2	2589.9	1545.7	1569.5	1677.3	1668.5	1724.9	1743.7	1679.8	1595.8	1599.6
35°	4065.4	2345.4	1465.4	1515.6	1595.8	1599.6	1656.0	1590.8	1521.8	1481.7	1484.2
37.5°	3972.6	2154.9	1412.8	1469.2	1491.8	1539.4	1509.3	1475.5	1466.7	1439.1	1440.4
40°	3917.4	1988.2	1378.9	1432.8	1429.1	1461.7	1365.1	1399.0	1411.5	1402.8	1404.0
42.5°	3862.3	1870.3	1343.8	1382.7	1381.4	1317.5	1296.2	1325.0	1357.6	1361.4	1358.9
45°	3818.4	1778.8	1307.5	1306.2	1331.3	1231.0	1224.7	1242.3	1288.7	1311.2	1310.0
47.5°	3769.5	1702.4	1252.3	1217.2	1224.7	1177.1	1167.1	1174.6	1231.0	1267.4	1277.4
50°	3708.1	1625.9	1183.4	1135.7	1104.4	1127.0	1129.5	1130.7	1187.1	1228.5	1237.3
52.5°	3659.2	1568.2	1104.4	1069.3	1031.7	1081.8	1100.6	1103.1	1137.0	1170.8	1177.1
55°	3688.0	1535.6	1026.7	1001.6	967.8	1035.5	1071.8	1076.8	1084.3	1109.4	1113.2
57.5°	3774.5	1543.2	964.0	931.4	906.3	980.3	1041.7	1045.5	1040.5	1070.6	1075.6
60°	3800.9	1539.4	917.6	853.7	838.6	921.4	997.8	1005.4	1004.1	1048.0	1056.8
62.5°	3690.5	1491.8	871.2	788.5	778.5	861.2	936.4	966.5	972.8	1035.5	1046.7
65°	3431.0	1394.0	809.8	719.6	719.6	797.3	877.5	918.9	936.4	1020.4	1032.9
67.5°	3088.8	1278.7	747.1	660.6	658.1	735.9	814.8	857.4	885.0	999.1	1006.6
70°	2563.6	1123.2	669.4	596.7	596.7	666.9	738.4	789.8	829.9	959.0	959.0
72.5°	1756.3	933.9	575.4	524.0	525.2	590.4	663.1	720.8	768.4	878.8	881.3
75°	1110.7	729.6	472.6	446.3	451.3	512.7	587.9	648.1	743.4	868.7	872.5
77.5°	590.4	512.7	376.1	369.8	376.1	432.5	516.5	599.2	745.9	753.4	740.9
80°	382.3	363.5	297.1	284.6	287.1	348.5	460.1	569.1	599.2	606.7	579.2
82.5°	208.1	230.7	210.6	198.1	198.1	272.0	392.4	452.5	430.0	357.3	341.0
85°	89.0	107.8	109.1	95.3	91.5	168.0	263.3	247.0	229.4	219.4	216.9
87.5°	25.1	35.1	35.1	26.3	20.1	46.4	52.7	15.0	0.0	1.3	2.5
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)