

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: P454448

Luminaire Tested: **GALN-SA5C-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36029 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

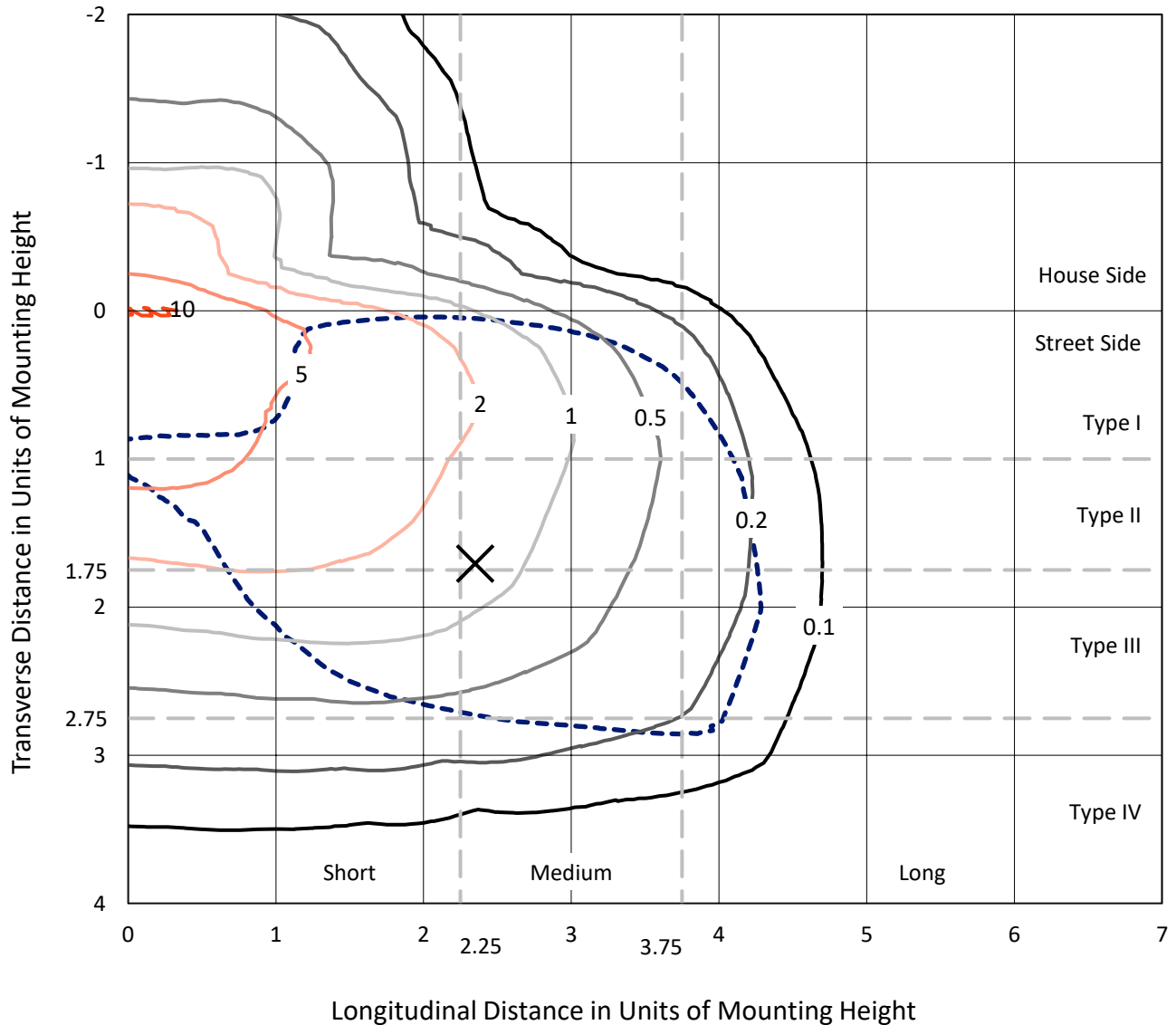
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

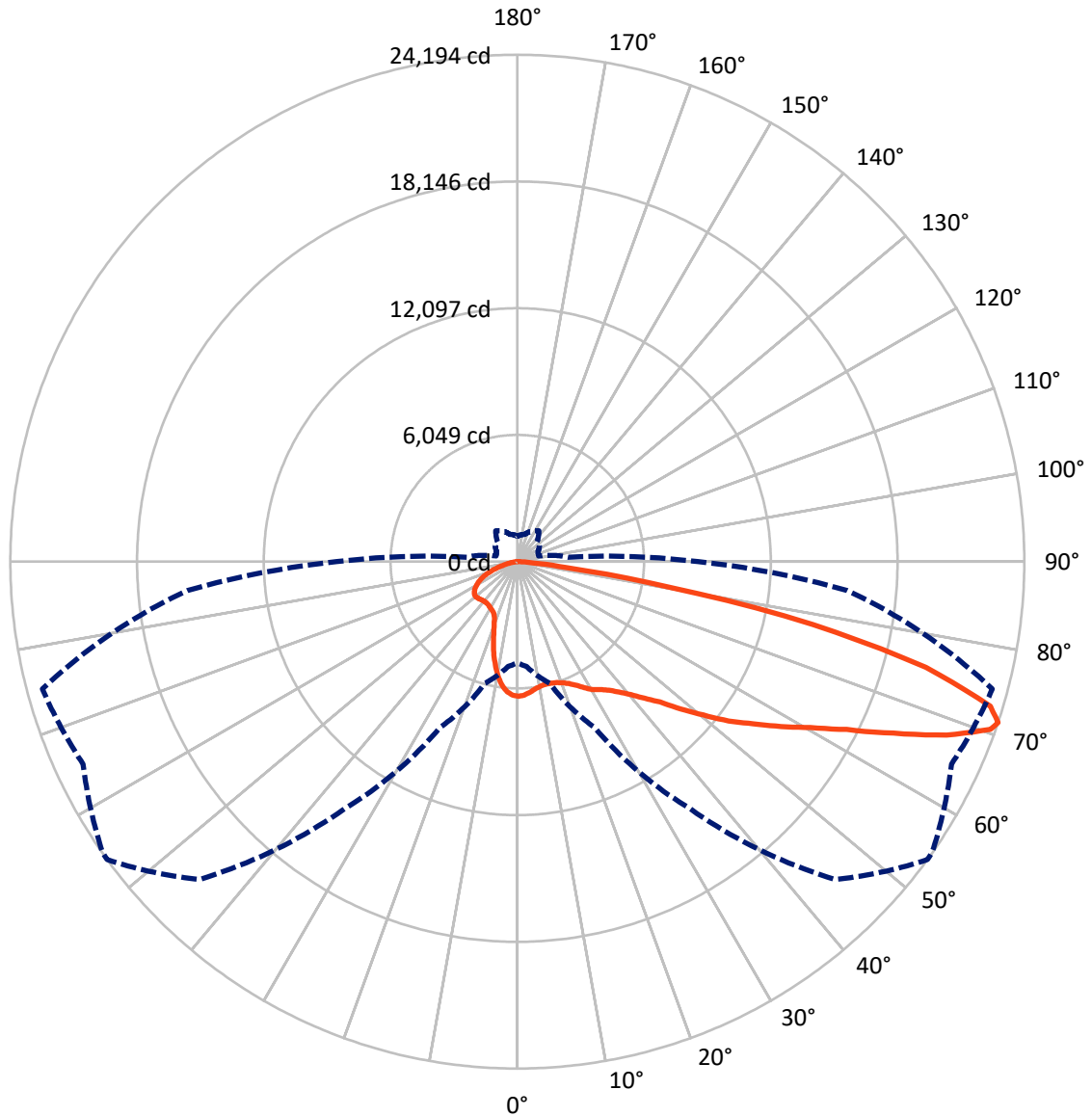
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6504.8	0.0	6504.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	29524.2	0.0	29524.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	36029.0	0.0	36029.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.8	1.6
10°-20°	1512.6	4.2
20°-30°	2518.5	7.0
30°-40°	3724.1	10.3
40°-50°	5245.5	14.6
50°-60°	7023.9	19.5
60°-70°	8853.1	24.6
70°-80°	6046.7	16.8
80°-90°	531.8	1.5
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°	36029.0	100.0
0°-180°	36029.0	100.0



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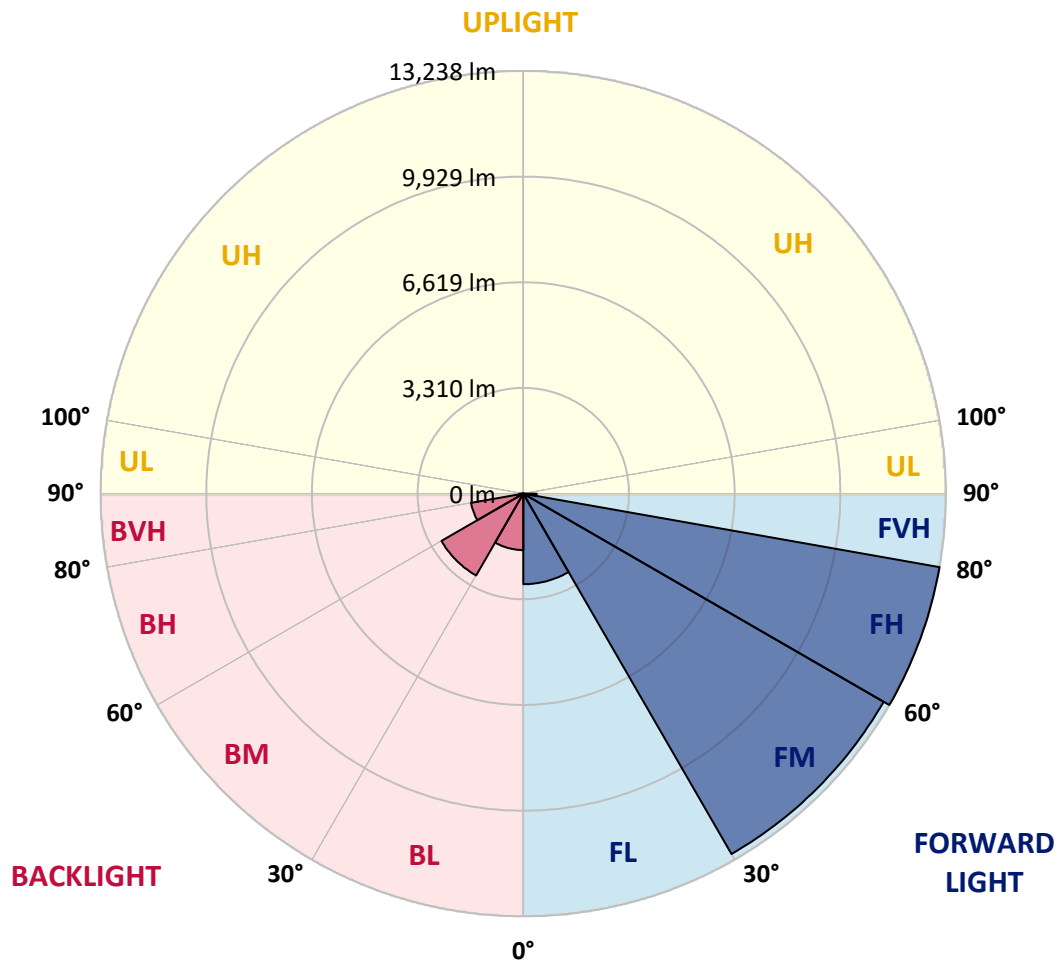
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2836.1	7.9			
FM	(30°-60°)	13034.0	36.2			
FH	(60°-80°)	13238.5	36.7			G5
FVH	(80°-90°)	415.7	1.2			G3/500
BL	(0°-30°)	1767.9	4.9	B3/2500		
BM	(30°-60°)	2959.5	8.2	B3/5000		
BH	(60°-80°)	1661.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	116.1	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1
2.5°	6210.1	6239.3	6247.1	6266.6	6307.4	6340.5	6373.6	6369.7	6416.4	6435.9	6453.4
5°	5933.8	5941.6	5970.8	6009.7	6081.7	6173.2	6262.7	6264.6	6379.5	6470.9	6515.7
7.5°	5731.4	5756.7	5776.1	5817.0	5892.9	5992.2	6134.2	6145.9	6350.3	6531.3	6626.6
10°	5599.1	5628.2	5649.7	5700.2	5776.1	5887.1	6040.8	6062.2	6328.9	6626.6	6794.0
12.5°	5478.4	5507.6	5527.0	5593.2	5692.5	5828.7	6001.9	6027.2	6336.6	6737.5	6976.9
15°	5552.3	5575.7	5567.9	5587.4	5653.5	5809.2	6017.5	6042.8	6365.8	6844.6	7157.9
17.5°	5881.2	5900.7	5836.5	5762.5	5731.4	5846.2	6066.1	6093.4	6424.2	6955.5	7342.8
20°	6365.8	6418.4	6278.3	6112.8	5963.0	5978.5	6167.3	6196.5	6506.0	7066.4	7531.6
22.5°	6996.4	7035.3	6864.0	6591.6	6315.2	6173.2	6319.1	6336.6	6628.6	7210.5	7737.9
25°	7737.9	7761.2	7523.8	7173.5	6774.5	6506.0	6527.4	6558.5	6831.0	7373.9	7920.8
27.5°	8457.9	8531.9	8257.5	7829.3	7303.9	6856.3	6813.4	6832.9	7050.9	7465.4	8047.3
30°	9312.3	9306.5	9016.5	8520.2	7846.8	7237.7	7084.0	7080.1	7169.6	7510.2	8138.8
32.5°	9993.4	10073.2	9789.1	9248.1	8467.7	7632.8	7270.8	7263.0	7261.1	7588.0	8275.0
35°	10768.0	10779.7	10518.9	9974.0	9139.1	8129.0	7531.6	7492.6	7447.9	7755.4	8459.9
37.5°	11460.8	11515.3	11275.9	10664.9	9798.8	8644.8	7889.7	7864.4	7728.1	8045.4	8755.7
40°	12001.9	12042.7	11898.7	11316.8	10448.8	9201.4	8345.1	8298.3	8132.9	8520.2	9150.8
42.5°	12179.0	12262.6	12319.1	12033.0	11196.2	9861.1	8905.5	8847.2	8720.7	9240.3	9606.2
45°	12192.6	12324.9	12622.7	12636.3	11947.4	10651.2	9559.4	9518.6	9508.8	10162.8	10246.4
47.5°	12089.4	12223.7	12723.9	12994.4	12616.8	11449.2	10503.3	10439.1	10444.9	11303.2	10964.6
50°	11840.3	11999.9	12607.1	13224.0	13140.4	12278.2	11499.8	11478.3	11599.0	12605.2	11709.9
52.5°	11371.3	11564.0	12486.4	13368.0	13529.6	12992.4	12632.4	12572.1	12877.6	14018.1	12525.4
55°	10073.2	10363.2	12044.7	13447.8	13899.3	13675.5	13652.2	13761.2	14166.0	15559.4	13422.5
57.5°	9396.0	9613.9	11085.2	13461.5	14366.4	14469.6	14843.2	14870.5	15578.9	17196.1	14436.5
60°	9026.2	9218.9	10559.8	13371.9	15018.4	15452.4	16061.5	16158.8	16958.7	18969.0	15487.4
62.5°	8703.1	8868.6	10244.5	13062.5	15754.0	16910.0	17639.8	17686.5	18525.3	20926.9	16524.7
65°	7942.2	8131.0	9610.0	12753.1	16388.5	18731.6	19733.9	19679.4	20193.2	22616.1	17174.7
67.5°	6916.6	7156.0	8424.8	11684.6	16701.8	20722.5	22092.6	22024.5	21839.6	23723.5	17361.5
70°	5606.8	5735.3	6908.8	9837.7	15450.4	21767.6	23955.1	23883.1	22859.4	23869.4	16478.0
71°	4824.5	5024.9	6015.5	8738.2	14409.2	21448.4	24194.4	24175.0	22861.3	23466.6	15812.4
72.5°	3765.8	3888.4	4764.2	6770.6	12247.1	19634.6	23602.8	23676.8	22365.1	22347.5	14440.4
75°	2382.1	2436.6	2989.3	3985.7	6720.0	13905.2	20148.4	20348.9	19858.4	18291.8	10738.8
77.5°	1383.7	1453.8	1790.5	2349.0	2903.6	7547.1	14417.0	14635.0	13798.1	10071.3	4396.3
80°	805.7	883.5	1179.4	1364.2	1333.1	2800.5	7340.8	7712.6	5974.7	2543.6	1233.9
82.5°	447.6	500.2	829.1	831.0	710.3	914.7	2310.1	2417.1	1704.8	1025.6	504.1
85°	325.0	367.8	535.2	484.6	340.6	393.1	803.8	842.7	688.9	432.0	163.5
87.5°	114.8	163.5	293.9	233.5	93.4	81.7	231.6	188.8	175.2	120.7	37.0
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°	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1	6428.1
2.5°	6463.1	6467.0	6447.6	6412.5	6377.5	6332.7	6282.1	6243.2	6225.7	6223.8	6221.8
5°	6533.2	6542.9	6469.0	6360.0	6239.3	6091.4	5964.9	5820.9	5783.9	5725.5	5743.1
7.5°	6646.1	6640.2	6494.3	6262.7	5980.5	5667.2	5402.5	5248.7	5089.2	5044.4	5046.3
10°	6807.6	6770.6	6494.3	6064.2	5593.2	5128.1	4758.3	4524.8	4398.3	4293.2	4254.3
12.5°	6978.9	6885.5	6432.0	5785.9	5095.0	4524.8	4127.8	3812.5	3730.8	3645.1	3647.1
15°	7142.3	6986.6	6309.4	5394.7	4557.9	3880.6	3495.3	3306.5	3281.2	3290.9	3289.0
17.5°	7290.2	7058.7	6122.6	4958.8	3931.2	3327.9	3123.6	3137.2	3205.3	3253.9	3259.8
20°	7440.1	7101.5	5844.3	4374.9	3339.6	2993.2	3001.0	3108.0	3211.1	3277.3	3287.0
22.5°	7582.2	7120.9	5517.3	3810.5	2911.4	2851.1	2965.9	3080.7	3181.9	3246.2	3255.9
25°	7675.6	7076.2	5054.1	3220.9	2701.2	2800.5	2921.2	3018.5	3104.1	3170.3	3185.8
27.5°	7700.9	6932.2	4480.0	2744.1	2603.9	2751.8	2862.8	2934.8	3001.0	3063.2	3074.9
30°	7687.3	6720.0	3849.5	2463.8	2547.5	2695.4	2781.0	2833.6	2913.4	2962.0	2971.8
32.5°	7665.9	6472.9	3191.7	2314.0	2500.8	2642.9	2693.5	2740.2	2738.2	2718.8	2732.4
35°	7673.6	6177.1	2658.4	2224.4	2459.9	2603.9	2646.8	2588.4	2421.0	2413.2	2405.4
37.5°	7714.5	5885.1	2271.1	2162.2	2438.5	2598.1	2621.5	2352.9	2205.0	2136.9	2119.3
40°	7819.6	5544.6	2016.2	2115.5	2436.6	2642.9	2506.6	2234.2	1950.0	1817.7	1808.0
42.5°	7959.7	5209.8	1860.5	2086.3	2459.9	2711.0	2459.9	2066.8	1757.4	1679.5	1667.8
45°	8168.0	4826.4	1774.9	2072.6	2495.0	2736.3	2444.4	1944.2	1679.5	1617.2	1617.2
47.5°	8403.4	4460.6	1728.2	2062.9	2539.7	2718.8	2306.2	1905.3	1642.5	1650.3	1687.3
50°	8637.0	4143.3	1693.1	2041.5	2578.6	2709.0	2249.7	1903.3	1652.3	1751.5	1817.7
52.5°	8907.5	3919.5	1650.3	2006.5	2578.6	2646.8	2232.2	1942.2	1679.5	1708.7	1737.9
55°	9234.4	3849.5	1595.8	1930.6	2531.9	2491.1	2222.5	1998.7	1699.0	1630.9	1642.5
57.5°	9666.5	3962.3	1543.3	1835.2	2424.9	2329.5	2218.6	2014.3	1654.2	1597.8	1586.1
60°	10168.6	4186.2	1527.7	1737.9	2278.9	2191.4	2195.2	1969.5	1591.9	1533.6	1543.3
62.5°	10520.8	4320.4	1518.0	1664.0	2119.3	2039.6	2138.8	1915.0	1564.7	1514.1	1523.8
65°	10520.8	4157.0	1428.5	1551.1	1913.1	1856.6	2070.7	1846.9	1529.7	1471.3	1461.6
67.5°	10121.9	3680.2	1292.2	1381.8	1685.4	1648.4	1975.3	1765.2	1477.1	1432.4	1409.0
70°	9082.6	2790.8	1121.0	1183.3	1397.3	1430.4	1852.7	1654.2	1389.5	1335.1	1300.0
71°	8625.3	2430.7	1049.0	1082.1	1286.4	1335.1	1794.3	1607.5	1350.6	1272.8	1210.5
72.5°	7743.7	2047.3	940.0	953.6	1099.6	1187.1	1671.7	1518.0	1276.7	1165.7	1095.7
75°	5883.2	1494.6	757.0	749.3	813.5	941.9	1414.8	1352.6	1119.0	969.2	928.3
77.5°	2541.7	813.5	566.3	572.2	552.7	714.2	1113.2	1161.8	959.4	788.2	751.2
80°	770.7	469.0	387.3	395.1	369.8	478.8	784.3	910.8	770.7	613.0	562.4
82.5°	395.1	280.2	264.7	260.8	235.5	270.5	474.9	622.8	550.8	383.4	338.6
85°	171.3	149.9	130.4	126.5	110.9	97.3	169.3	311.4	291.9	214.1	204.3
87.5°	42.8	38.9	25.3	23.4	13.6	1.9	0.0	0.0	0.0	0.0	0.0
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)