

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: P455488

Luminaire Tested: **GALN-SA6C-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455488
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-SA6C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33762 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 321
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

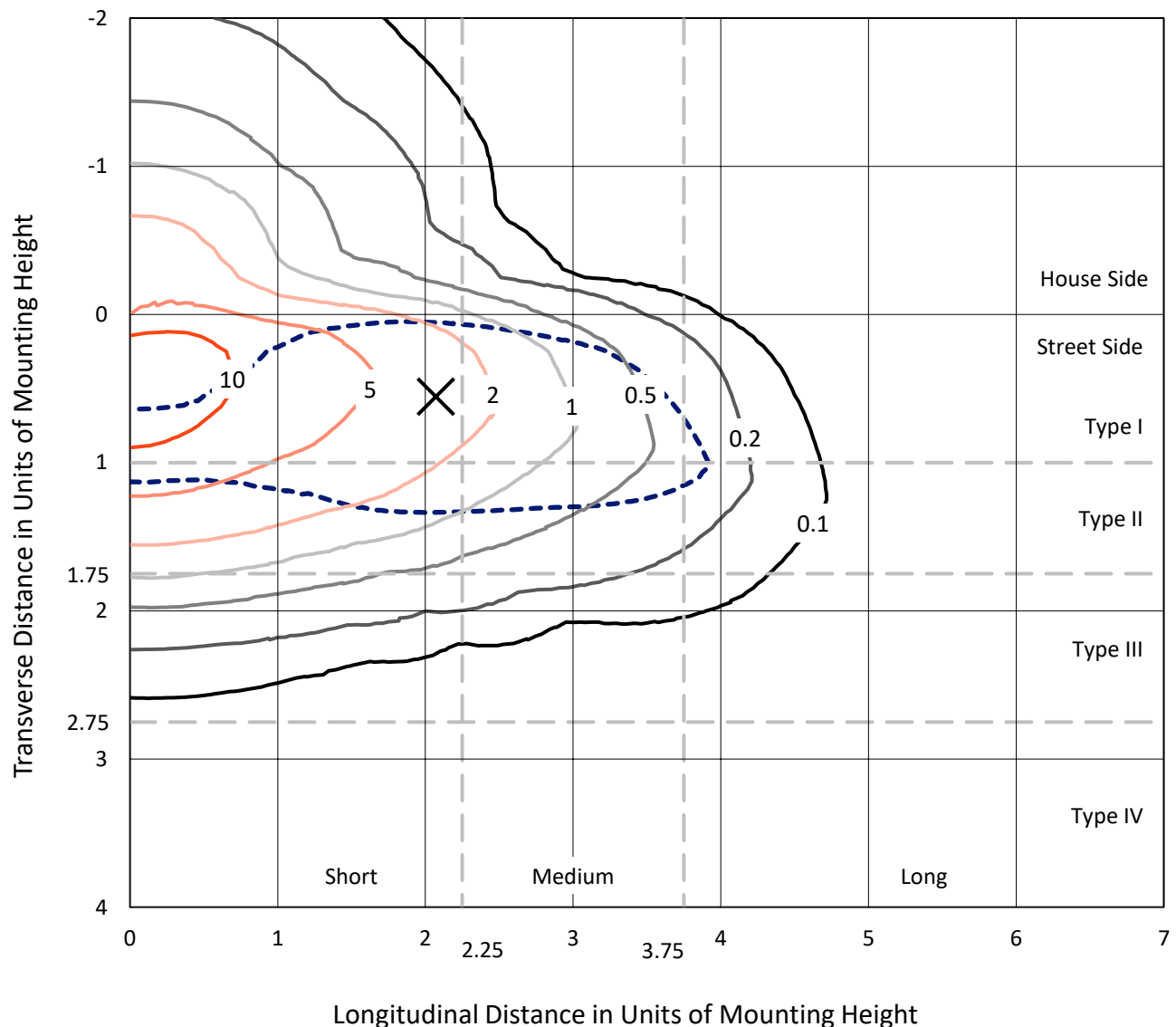


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

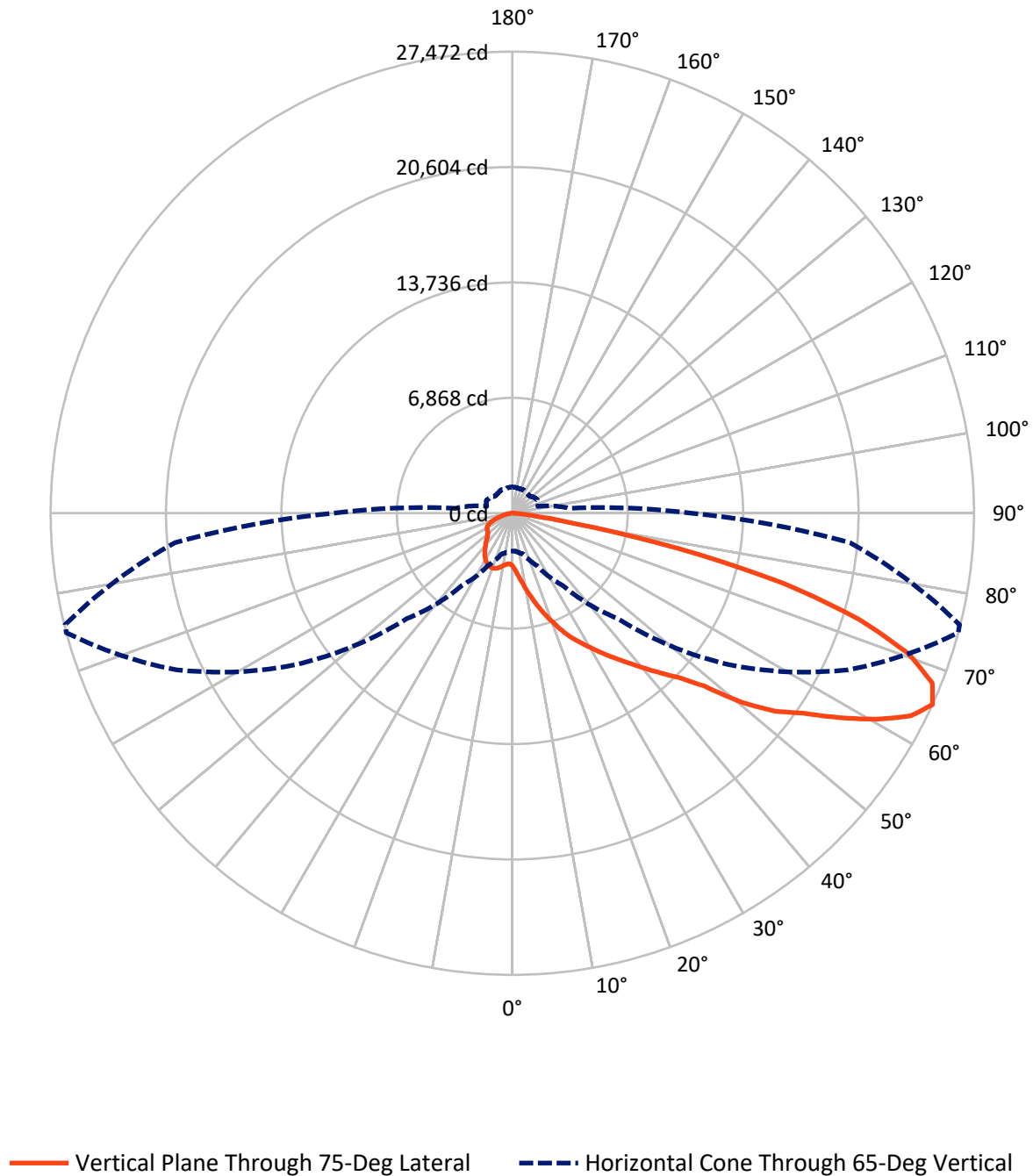


Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5675.8	0.0	5675.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	28086.2	0.0	28086.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	33762.0	0.0	33762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.1	1.1
10°-20°	1492.8	4.4
20°-30°	2883.6	8.5
30°-40°	4683.9	13.9
40°-50°	6443.1	19.1
50°-60°	7607.1	22.5
60°-70°	6665.1	19.7
70°-80°	3182.0	9.4
80°-90°	423.4	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°	33762.0	100.0
0°-180°	33762.0	100.0

Coefficient of Utilization



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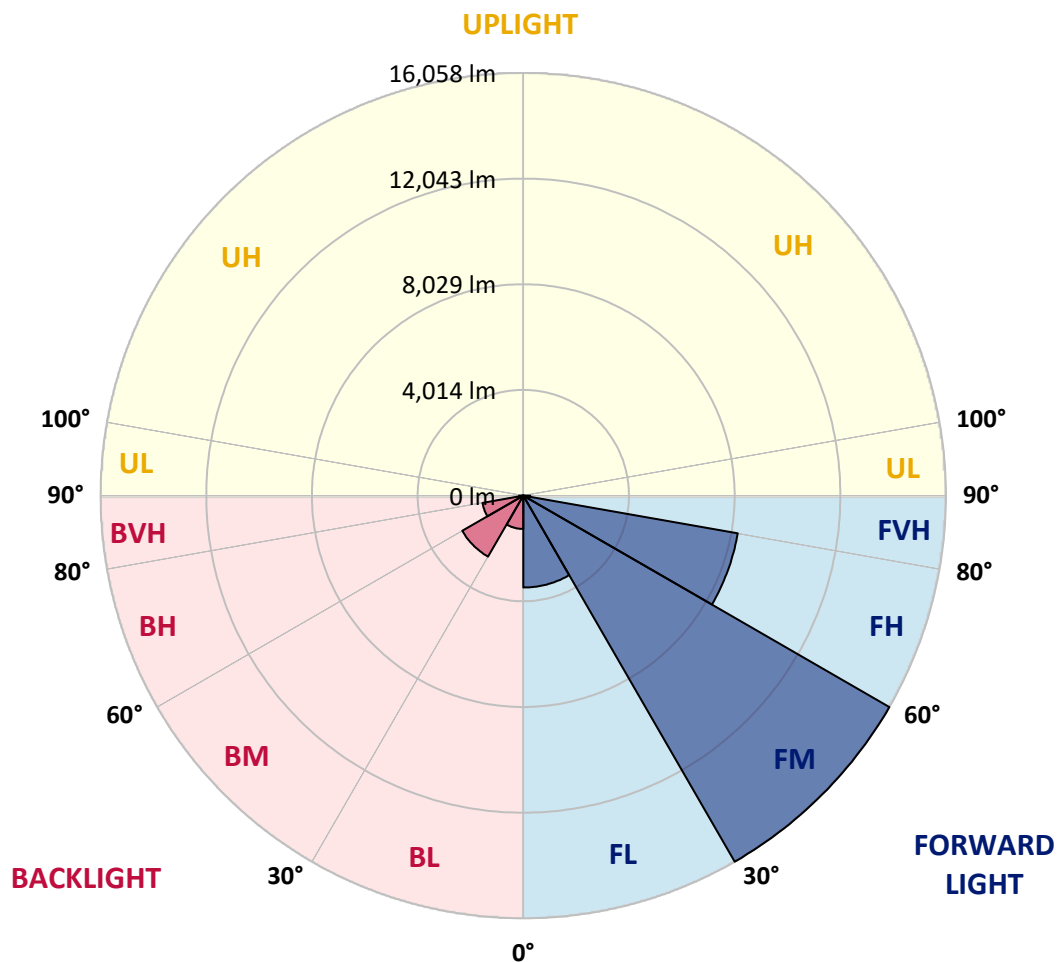
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3490.4	10.3			
FM	(30°-60°)	16057.9	47.6			
FH	(60°-80°)	8273.2	24.5			G4/12000
FVH	(80°-90°)	264.6	0.8			G3/500
BL	(0°-30°)	1267.1	3.8	B3/2500		
BM	(30°-60°)	2676.1	7.9	B3/5000		
BH	(60°-80°)	1573.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	158.8	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9
2.5°	4167.9	4140.4	4111.1	4030.6	3944.5	3847.4	3708.3	3574.6	3397.0	3391.5	3259.6
5°	5323.4	5305.1	5175.1	5100.0	4900.4	4634.9	4409.6	4059.9	3735.7	3697.3	3440.9
7.5°	6385.5	6314.1	6264.7	6129.2	5931.4	5590.8	5154.9	4682.5	4140.4	4089.2	3664.3
10°	7185.8	7178.5	7152.8	7035.6	6887.3	6548.5	6065.1	5387.5	4653.2	4552.5	3935.3
12.5°	7784.6	7790.1	7786.4	7784.6	7678.4	7390.9	6867.2	6153.0	5171.4	5100.0	4248.5
15°	8178.3	8233.3	8255.2	8346.8	8356.0	8163.7	7713.2	6892.8	5755.6	5649.4	4585.4
17.5°	8438.4	8465.8	8568.4	8724.0	8850.4	8815.6	8414.6	7577.7	6352.6	6174.9	4935.2
20°	8687.4	8735.0	8813.8	9026.2	9249.6	9352.1	9070.1	8279.0	6944.1	6830.5	5321.6
22.5°	9205.6	9273.4	9300.9	9408.9	9599.4	9780.7	9652.5	8951.1	7592.3	7438.5	5731.8
25°	10082.8	10154.2	10077.3	10051.7	10113.9	10203.7	10176.2	9584.7	8204.0	7984.2	6120.0
27.5°	11225.5	11234.7	11084.5	10941.7	10787.8	10742.1	10657.8	10146.9	8735.0	8551.9	6510.1
30°	12452.4	12408.5	12159.4	11901.2	11641.2	11384.8	11143.1	10689.0	9326.5	9115.9	6892.8
32.5°	13591.5	13567.7	13291.1	12890.1	12450.6	12208.9	11719.9	11236.5	9960.1	9756.9	7286.5
35°	14444.8	14479.6	14175.6	13738.0	13258.2	13043.9	12426.8	11811.5	10615.7	10394.1	7715.0
37.5°	15051.0	15032.7	14763.5	14384.4	13963.2	13776.4	13252.7	12439.6	11320.7	11108.3	8183.8
40°	15267.1	15256.1	15056.5	14779.9	14512.6	14446.7	14117.0	13117.2	12128.3	11879.3	8747.8
42.5°	15129.7	15153.5	15021.7	14946.6	14897.1	14944.8	14975.9	14005.3	13009.1	12780.2	9359.5
45°	14708.5	14695.7	14677.4	14800.1	15078.4	15391.6	15825.6	14844.0	13966.9	13783.8	10179.9
47.5°	13955.9	14047.5	14093.2	14432.0	15040.0	15781.6	16803.5	15968.4	15356.8	15197.5	11430.6
50°	12902.9	12976.2	13247.2	13849.7	14756.1	15928.1	17759.4	17807.0	17675.1	17376.6	12789.4
52.5°	11258.5	11372.0	11930.5	13034.8	14173.8	15867.7	18338.0	19383.7	19557.7	19334.2	14128.0
55°	9418.1	9577.4	10167.1	11615.6	13371.7	15538.1	18737.3	20297.5	20991.5	20784.6	15417.2
57.5°	7616.1	7784.6	8390.7	9793.5	11972.7	14809.2	18999.1	21315.6	22943.6	22674.4	17021.4
60°	5708.0	5883.8	6403.9	7848.7	9980.3	13384.5	18821.5	22198.3	24893.9	24778.5	18627.4
62.5°	3682.6	3876.7	4329.1	5524.9	7671.1	11437.9	17871.1	22685.4	26582.3	26443.1	19799.4
65°	2243.3	2265.2	2514.3	3429.9	5250.2	8855.9	15697.4	22039.0	27472.3	27430.2	20156.5
67.5°	1450.3	1485.1	1598.7	2054.7	3147.9	6151.1	12551.3	19905.6	26952.2	26937.6	19418.5
70°	1225.1	1236.1	1287.4	1386.2	1829.4	3730.2	8813.8	16505.0	24976.3	24976.3	17644.0
72.5°	1095.1	1109.7	1128.0	1159.2	1305.7	2113.3	5259.3	12848.0	21564.7	21707.5	15018.0
75°	994.4	990.7	1001.7	1007.2	1113.4	1380.8	2719.4	9502.3	16682.6	16396.9	10875.7
77.5°	851.5	857.0	851.5	875.3	983.4	1051.1	1380.8	6376.4	10110.3	9740.4	5458.9
80°	699.5	708.7	717.8	732.5	840.5	798.4	829.6	2906.2	3739.4	3660.7	1686.6
82.5°	525.6	538.4	553.0	587.8	661.1	527.4	523.7	1241.6	1349.6	1236.1	620.8
85°	212.4	250.9	379.1	413.9	415.7	289.3	322.3	518.2	551.2	538.4	243.6
87.5°	49.4	58.6	122.7	185.0	170.3	108.0	119.0	168.5	192.3	177.6	82.4
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°	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9	3136.9
2.5°	3199.2	3135.1	3025.2	2941.0	2880.5	2827.4	2794.5	2774.3	2767.0	2765.2	2767.0
5°	3307.2	3193.7	3019.7	2909.8	2849.4	2814.6	2794.5	2792.6	2794.5	2796.3	2790.8
7.5°	3455.6	3292.6	3065.5	2962.9	2917.2	2891.5	2882.4	2878.7	2880.5	2878.7	2878.7
10°	3653.3	3429.9	3155.2	3049.0	3010.6	2981.3	2966.6	2957.5	2950.1	2942.8	2939.1
12.5°	3871.2	3581.9	3252.3	3149.7	3094.8	3049.0	3016.1	2992.2	2975.8	2959.3	2955.6
15°	4114.8	3743.1	3360.3	3217.5	3138.7	3071.0	3014.2	2975.8	2946.5	2922.7	2920.8
17.5°	4347.4	3895.1	3433.6	3248.6	3133.3	3038.0	2962.9	2909.8	2873.2	2842.1	2838.4
20°	4596.4	4039.7	3466.5	3228.5	3078.3	2962.9	2864.1	2800.0	2757.8	2723.1	2717.6
22.5°	4847.3	4162.4	3462.9	3164.4	2983.1	2847.6	2743.2	2675.4	2626.0	2591.2	2578.4
25°	5087.2	4261.3	3417.1	3061.8	2851.2	2710.2	2604.0	2541.8	2497.8	2455.7	2455.7
27.5°	5303.3	4319.9	3331.0	2937.3	2715.7	2567.4	2483.2	2426.4	2386.1	2358.6	2342.2
30°	5515.7	4347.4	3213.8	2779.8	2572.9	2446.5	2378.8	2345.8	2309.2	2278.1	2274.4
32.5°	5706.1	4341.9	3067.3	2626.0	2437.4	2347.7	2320.2	2294.5	2256.1	2212.1	2201.2
35°	5891.1	4305.2	2893.4	2457.5	2323.8	2289.1	2296.4	2259.8	2190.2	2135.2	2126.1
37.5°	6092.5	4239.3	2702.9	2320.2	2228.6	2261.6	2279.9	2199.3	2085.8	1999.7	1979.6
40°	6325.1	4164.2	2505.1	2182.8	2153.5	2235.9	2235.9	2087.6	1932.0	1878.9	1864.2
42.5°	6598.0	4102.0	2340.3	2067.5	2091.3	2173.7	2164.5	1939.3	1875.2	1847.7	1840.4
45°	7030.1	4080.0	2170.0	1966.8	2040.0	2100.4	2025.4	1888.0	1851.4	1829.4	1822.1
47.5°	7713.2	4105.6	2019.9	1891.7	1981.4	2027.2	1869.7	1853.2	1827.6	1796.4	1792.8
50°	8346.8	4081.8	1913.6	1849.6	1930.1	1939.3	1805.6	1811.1	1796.4	1761.7	1754.3
52.5°	8865.0	4006.8	1845.9	1827.6	1886.2	1785.5	1745.2	1765.3	1759.8	1715.9	1708.5
55°	9434.6	3961.0	1812.9	1827.6	1856.9	1651.8	1688.4	1717.7	1710.4	1679.2	1677.4
57.5°	10124.9	3970.1	1789.1	1833.1	1827.6	1584.0	1631.6	1666.4	1664.6	1655.4	1655.4
60°	10831.8	3973.8	1752.5	1831.2	1792.8	1530.9	1573.0	1622.5	1626.1	1631.6	1631.6
62.5°	11066.2	3814.5	1681.1	1798.3	1715.9	1479.6	1518.1	1585.9	1582.2	1596.8	1598.7
65°	10628.5	3373.1	1574.9	1723.2	1617.0	1443.0	1476.0	1538.2	1518.1	1556.6	1563.9
67.5°	9674.4	2790.8	1410.1	1587.7	1507.1	1404.6	1448.5	1472.3	1435.7	1510.8	1512.6
70°	8361.4	2179.2	1201.3	1395.4	1382.6	1364.3	1426.5	1389.9	1338.6	1430.2	1411.9
72.5°	6991.7	1664.6	959.6	1140.9	1215.9	1303.8	1388.1	1283.7	1212.3	1239.8	1206.8
75°	5252.0	1230.6	771.0	893.6	1012.7	1217.8	1353.3	1155.5	1045.6	1020.0	1012.7
77.5°	2677.3	803.9	576.8	668.4	760.0	1100.6	1305.7	1005.4	866.2	825.9	807.6
80°	955.9	499.9	406.5	461.5	512.7	946.8	1140.9	831.4	672.1	664.7	672.1
82.5°	443.2	322.3	272.9	302.2	304.0	631.8	869.8	620.8	510.9	776.4	655.6
85°	190.4	161.1	153.8	150.2	139.2	282.0	488.9	333.3	520.1	232.6	214.3
87.5°	56.8	64.1	56.8	42.1	31.1	31.1	49.4	18.3	12.8	9.2	9.2
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)