

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: P455689

Luminaire Tested: **GALN-SA6D-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33915 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

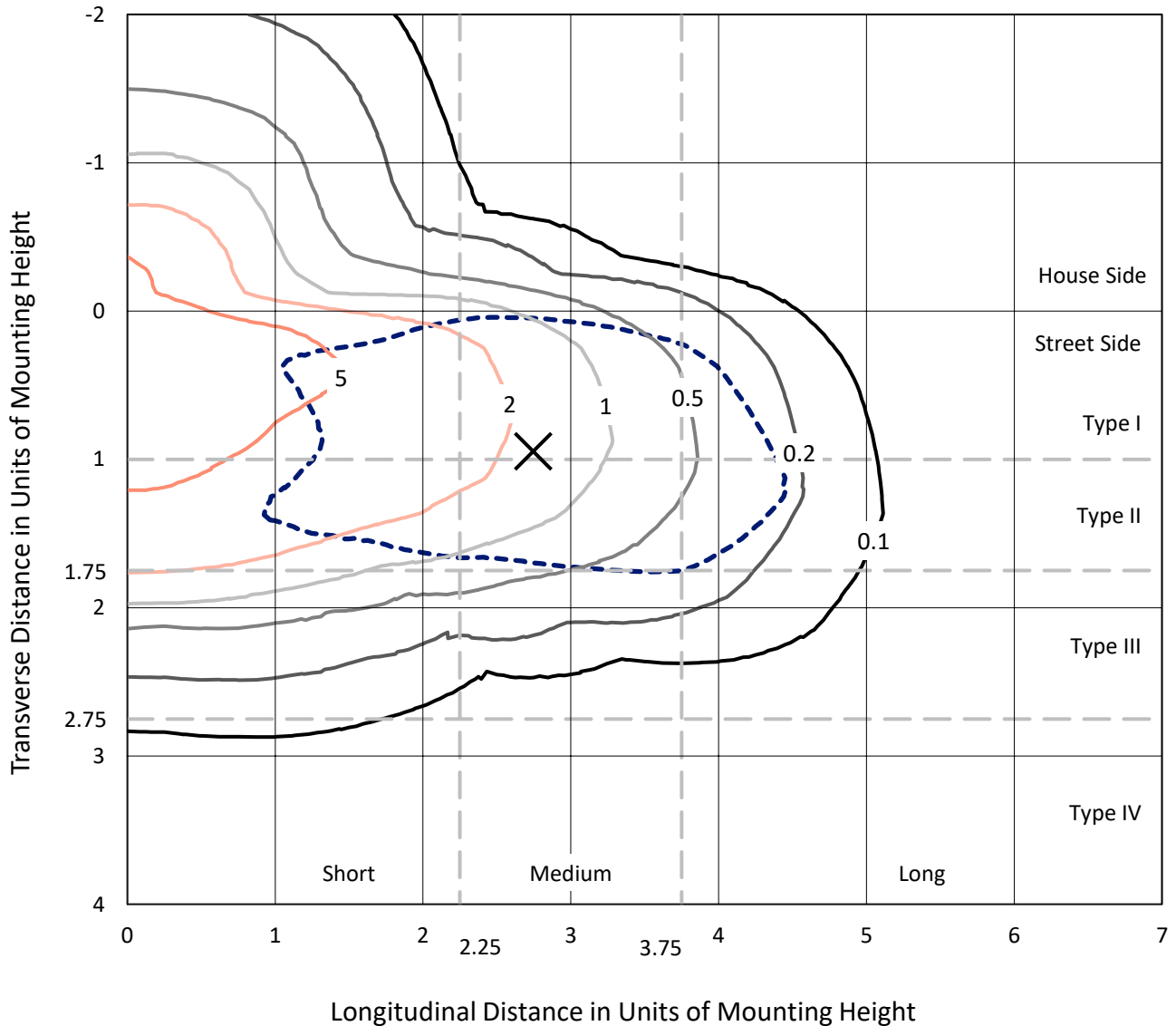
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

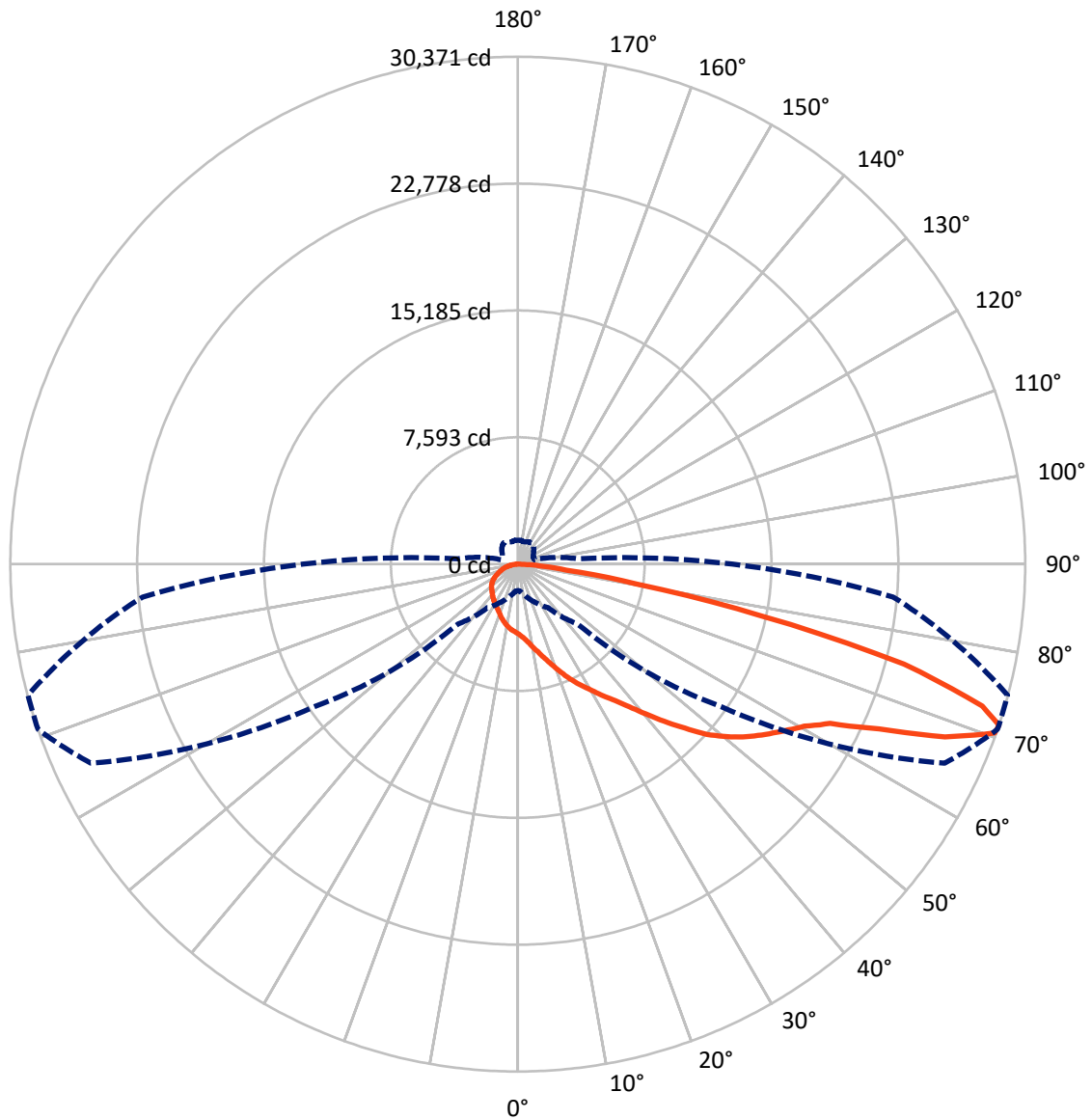
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6099.5	0.0	6099.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	27815.5	0.0	27815.5
	% Fixture	82.0	0.0	82.0
Total	Lumens	33915.0	0.0	33915.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.9	1.2
10°-20°	1357.8	4.0
20°-30°	2372.9	7.0
30°-40°	3529.4	10.4
40°-50°	5200.1	15.3
50°-60°	7280.3	21.5
60°-70°	8142.7	24.0
70°-80°	4973.9	14.7
80°-90°	639.8	1.9
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°	33915.0	100.0
0°-180°	33915.0	100.0

Coefficient of Utilization



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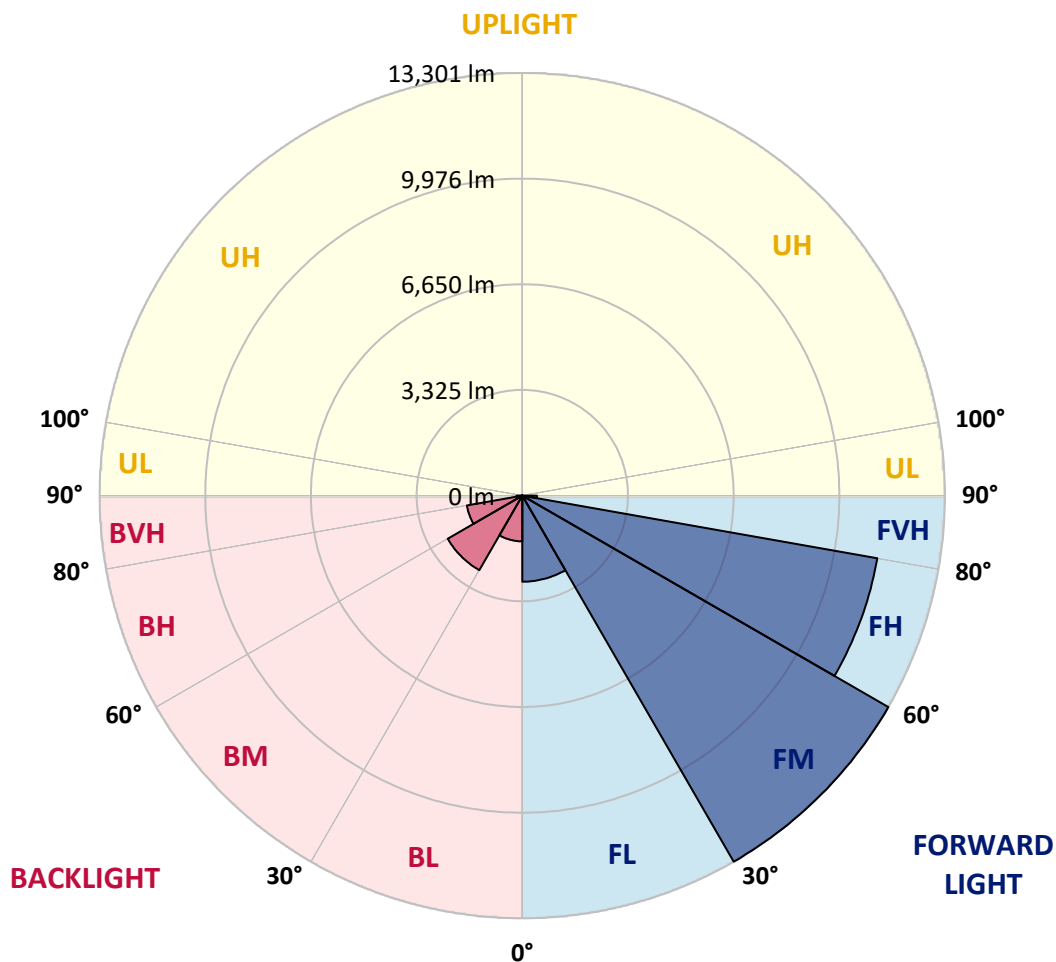
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2709.8	8.0			
FM	(30°-60°)	13300.8	39.2			
FH	(60°-80°)	11344.5	33.4			G4/12000
FVH	(80°-90°)	460.4	1.4			G3/500
BL	(0°-30°)	1438.9	4.2	B3/2500		
BM	(30°-60°)	2709.0	8.0	B3/5000		
BH	(60°-80°)	1772.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	179.5	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4
2.5°	4621.0	4598.6	4600.4	4568.8	4527.7	4483.0	4419.6	4363.7	4319.0	4292.9	4216.5
5°	5120.5	5098.1	5070.2	5001.2	4971.4	4861.4	4721.6	4594.9	4497.9	4443.9	4291.0
7.5°	5525.0	5519.4	5512.0	5472.8	5396.4	5243.5	5124.2	4904.3	4760.8	4658.2	4397.3
10°	5774.8	5784.1	5789.7	5797.2	5765.5	5685.3	5521.3	5243.5	5060.9	4930.4	4535.2
12.5°	5901.5	5910.9	5942.6	6011.5	6054.4	6045.1	5910.9	5638.7	5387.1	5215.6	4682.5
15°	5979.8	5994.7	6050.7	6142.0	6285.5	6376.9	6311.6	6060.0	5784.1	5580.9	4857.7
17.5°	6065.6	6082.4	6143.9	6274.4	6462.6	6660.2	6731.0	6514.8	6214.7	5972.4	5053.4
20°	6114.0	6136.4	6224.0	6395.5	6615.5	6902.5	7137.4	7023.7	6695.6	6427.2	5279.0
22.5°	6192.3	6211.0	6285.5	6468.2	6731.0	7090.8	7543.8	7519.5	7230.6	6883.9	5526.9
25°	6404.8	6434.7	6471.9	6581.9	6835.4	7282.8	7881.2	8048.9	7748.8	7361.1	5754.3
27.5°	6805.6	6829.8	6828.0	6842.9	6986.4	7448.7	8173.8	8572.7	8263.3	7843.9	5974.2
30°	7262.3	7271.6	7279.1	7245.5	7277.2	7618.3	8442.2	9090.9	8781.5	8339.7	6166.2
32.5°	7817.8	7836.4	7773.0	7687.3	7661.2	7870.0	8664.0	9609.1	9394.8	8843.0	6356.4
35°	8473.9	8522.4	8393.8	8242.8	8136.5	8231.6	8962.3	10138.5	10022.9	9486.1	6608.0
37.5°	9223.3	9282.9	9163.6	8867.2	8716.2	8742.3	9351.9	10792.8	10817.0	10218.7	6982.7
40°	9836.5	9914.8	9918.5	9499.1	9269.9	9299.7	9845.8	11497.4	11775.1	11124.6	7424.5
42.5°	10241.0	10317.5	10397.6	10151.6	9911.1	10080.7	10421.8	12261.6	12852.5	12224.4	8041.5
45°	10684.7	10753.6	10798.4	10686.5	10552.3	10992.2	11117.1	13074.4	14000.8	13452.8	8716.2
47.5°	11199.1	11275.6	11318.4	11212.2	11161.9	11791.9	11866.5	13833.0	15227.3	14645.7	9461.9
50°	11885.1	11942.9	11920.5	11853.4	11842.2	12405.2	12586.0	14543.2	16239.5	15930.1	10235.4
52.5°	12738.8	12807.8	12832.0	12737.0	12694.1	12843.2	13165.7	15190.0	17160.3	17033.6	11061.2
55°	13255.2	13365.2	13734.2	13883.4	13985.9	13409.9	13790.2	15904.0	17986.1	18196.7	11948.5
57.5°	12593.4	12735.1	13560.9	14306.5	15270.2	14826.6	14675.6	16649.6	18811.9	19324.5	13011.0
60°	10979.2	11010.9	12075.2	13449.0	15387.6	16647.7	16522.8	17835.1	19706.6	20461.5	14410.9
62.5°	7616.5	7683.6	8941.8	11133.9	13937.4	17303.9	19665.6	19881.8	20989.1	22163.4	16463.2
65°	3927.5	3839.9	4986.3	6997.6	10507.6	15745.5	22211.9	23645.3	23770.2	24825.3	19352.4
67.5°	2417.7	2456.8	2993.6	4086.0	6212.8	11443.3	21945.3	28243.9	27585.9	28092.9	22034.8
70°	1815.6	1864.0	2233.1	2796.1	3787.7	6542.8	17648.7	29358.6	30277.6	30147.1	22851.2
71°	1578.8	1629.2	2013.2	2544.4	3181.9	5049.7	14869.4	28191.7	30370.8	30348.4	22543.7
72.5°	1345.8	1377.5	1677.6	2154.8	2682.4	3539.8	11171.2	25283.8	29075.3	29819.0	21445.8
75°	1056.9	1081.1	1215.4	1644.1	2112.0	2173.5	5994.7	18955.4	23880.2	25296.9	17853.8
77.5°	861.2	878.0	946.9	1220.9	1629.2	1539.7	3144.6	12338.1	14960.8	16386.8	10516.9
80°	684.1	702.7	743.8	827.6	1220.9	1097.9	1500.6	6252.0	7226.9	7212.0	4197.8
82.5°	531.3	536.8	585.3	607.7	835.1	779.2	812.7	2646.9	2932.1	3029.1	1515.5
85°	335.5	352.3	518.2	466.0	499.6	456.7	400.8	1051.3	1295.5	1276.9	605.8
87.5°	102.5	108.1	175.2	197.6	221.8	199.5	147.3	309.4	378.4	410.1	151.0
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°	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4	4162.4
2.5°	4186.6	4166.1	4093.4	4033.8	3977.9	3916.3	3864.2	3849.2	3836.2	3830.6	3828.7
5°	4225.8	4164.3	4020.7	3903.3	3810.1	3724.3	3670.3	3646.1	3621.8	3621.8	3629.3
7.5°	4281.7	4169.9	3948.0	3772.8	3655.4	3575.2	3536.1	3532.4	3537.9	3543.5	3545.4
10°	4343.2	4166.1	3841.8	3623.7	3519.3	3482.0	3483.9	3515.6	3545.4	3567.8	3571.5
12.5°	4402.9	4143.8	3716.9	3483.9	3416.8	3424.2	3476.4	3547.3	3605.0	3636.7	3638.6
15°	4470.0	4108.3	3565.9	3351.5	3329.2	3387.0	3483.9	3592.0	3679.6	3731.8	3737.4
17.5°	4525.9	4048.7	3407.5	3222.9	3250.9	3357.1	3491.3	3631.1	3737.4	3802.6	3813.8
20°	4589.3	3972.3	3243.4	3099.9	3180.0	3323.6	3476.4	3627.4	3737.4	3800.8	3815.7
22.5°	4639.6	3864.2	3086.8	2999.2	3116.7	3282.6	3426.1	3547.3	3636.7	3670.3	3692.7
25°	4660.1	3728.1	2939.6	2917.2	3066.3	3215.5	3312.4	3381.4	3409.3	3405.6	3414.9
27.5°	4648.9	3571.5	2812.8	2852.0	3003.0	3111.1	3159.5	3154.0	3103.6	3057.0	3079.4
30°	4602.3	3385.1	2706.6	2784.9	2920.9	2980.6	2973.1	2900.4	2805.4	2717.8	2723.4
32.5°	4518.4	3183.8	2607.8	2708.4	2805.4	2831.5	2781.1	2686.1	2550.0	2436.3	2419.5
35°	4447.6	2991.8	2520.2	2620.8	2689.8	2676.8	2628.3	2505.3	2382.2	2281.6	2264.8
37.5°	4436.4	2827.7	2436.3	2522.0	2561.2	2542.5	2482.9	2378.5	2333.8	2257.4	2248.0
40°	4496.1	2712.2	2350.6	2417.7	2436.3	2421.4	2356.1	2296.5	2337.5	2318.9	2318.9
42.5°	4658.2	2650.7	2274.1	2313.3	2328.2	2339.4	2292.8	2242.4	2292.8	2207.0	2179.1
45°	4915.5	2652.5	2205.2	2210.7	2255.5	2294.6	2262.9	2188.4	2162.3	1990.8	1957.2
47.5°	5293.9	2715.9	2149.2	2113.8	2194.0	2259.2	2214.5	2106.4	1990.8	1877.1	1856.6
50°	5735.6	2829.6	2098.9	2013.2	2112.0	2214.5	2180.9	2054.2	1934.9	1865.9	1852.9
52.5°	6225.9	2973.1	2037.4	1901.3	2011.3	2194.0	2188.4	2046.7	1882.7	1836.1	1824.9
55°	6831.7	3114.8	1961.0	1770.8	1921.8	2177.2	2167.9	1985.2	1871.5	1837.9	1834.2
57.5°	7536.3	3319.9	1851.0	1638.5	1819.3	2108.2	2087.7	1947.9	1834.2	1810.0	1808.1
60°	8671.5	3638.6	1694.4	1517.3	1714.9	1987.1	2013.2	1884.5	1774.6	1769.0	1767.1
62.5°	10164.6	4086.0	1532.2	1392.4	1593.8	1830.5	1905.0	1798.8	1711.2	1739.1	1742.9
65°	12226.2	4462.5	1364.5	1286.2	1459.5	1679.5	1802.5	1718.6	1640.4	1694.4	1694.4
67.5°	13570.2	4470.0	1211.6	1176.2	1323.5	1552.7	1694.4	1623.6	1549.0	1640.4	1644.1
70°	13290.6	3916.3	1084.9	1060.6	1191.1	1416.7	1575.1	1519.2	1433.4	1515.5	1485.6
71°	12839.5	3608.8	1034.5	1015.9	1138.9	1351.4	1519.2	1472.6	1386.8	1440.9	1424.1
72.5°	12120.0	3133.4	952.5	956.3	1060.6	1269.4	1440.9	1392.4	1306.7	1336.5	1330.9
75°	10244.8	2736.4	814.6	831.4	911.5	1129.6	1284.3	1247.0	1159.4	1159.4	1153.8
77.5°	6404.8	1912.5	676.6	686.0	773.6	967.4	1103.5	1071.8	987.9	960.0	952.5
80°	2389.7	987.9	529.4	540.6	594.6	762.4	913.4	883.6	797.8	766.1	736.3
82.5°	904.1	495.8	389.6	380.3	438.0	581.6	715.8	680.4	613.3	536.8	514.5
85°	341.1	246.1	238.6	231.1	257.2	344.8	443.6	436.2	365.4	311.3	305.7
87.5°	89.5	80.2	93.2	69.0	72.7	65.2	67.1	28.0	13.0	5.6	3.7
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)