

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: P455724

Luminaire Tested: **GALN-SA6D-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455724
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-SA6D-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37304 lumens
Efficiency: N/A
Efficacy: 101.4 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): 368
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

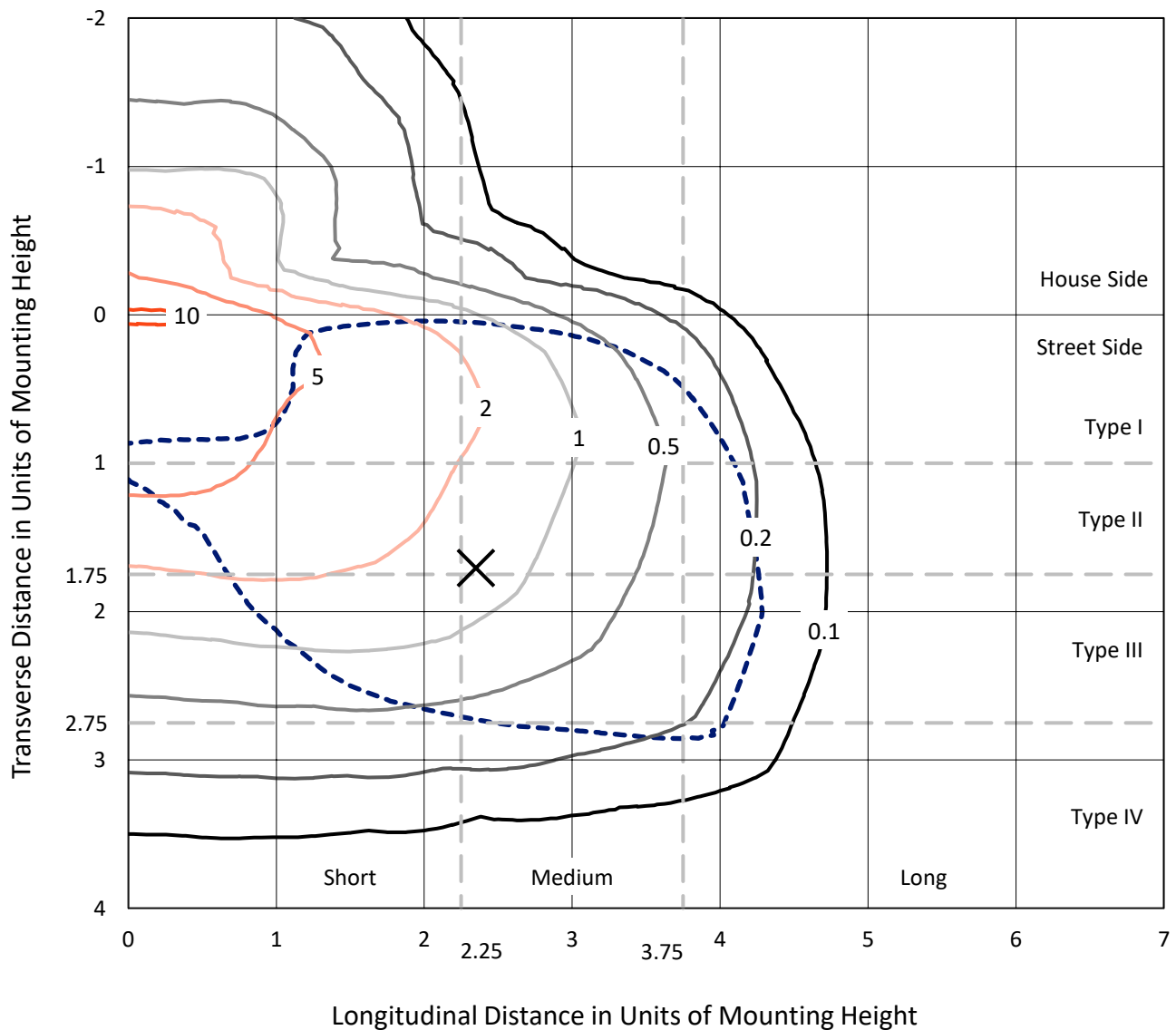


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

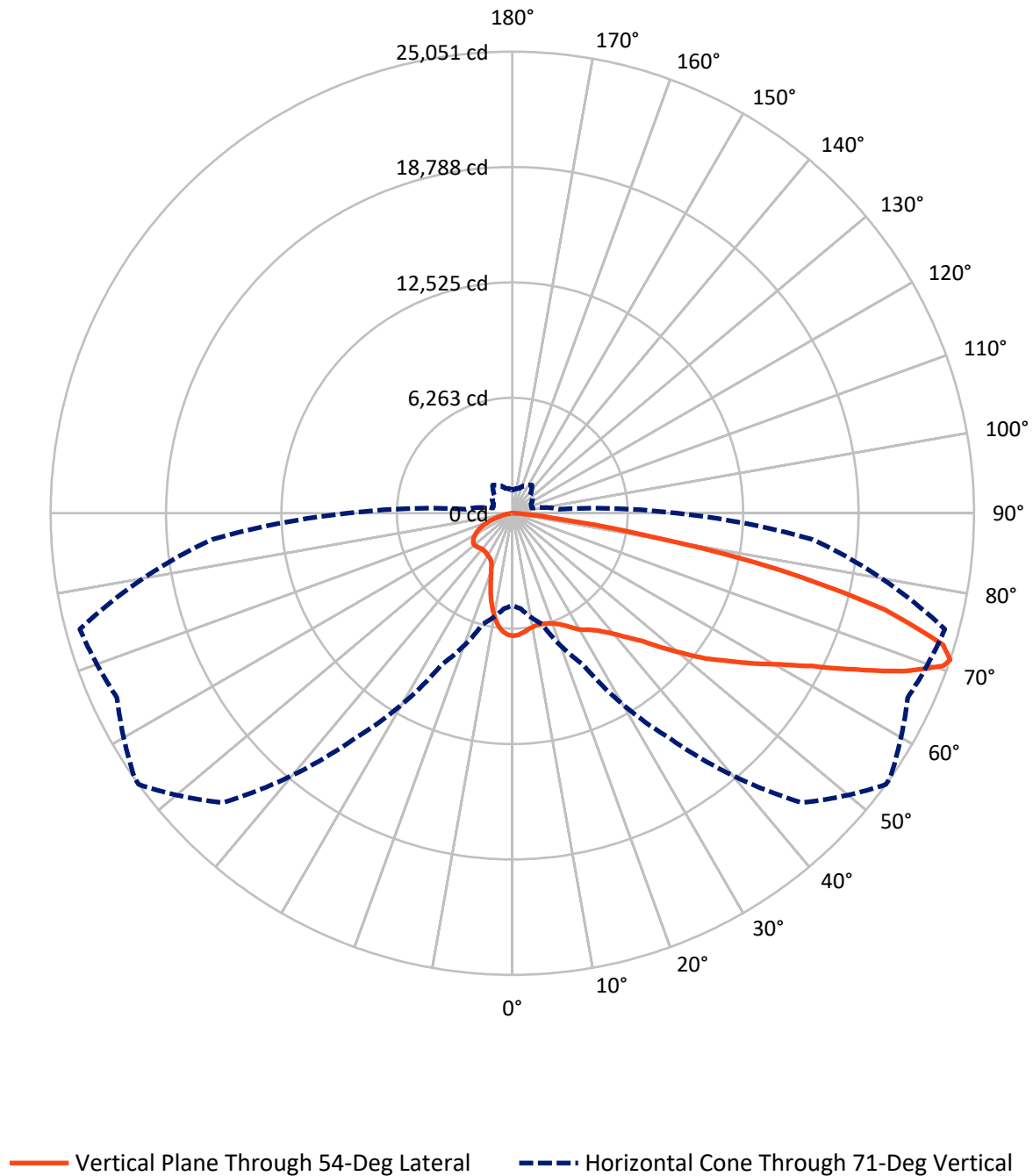


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6735.0	0.0	6735.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	30569.0	0.0	30569.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	37304.0	0.0	37304.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	593.1	1.6
10°-20°	1566.1	4.2
20°-30°	2607.6	7.0
30°-40°	3855.9	10.3
40°-50°	5431.1	14.6
50°-60°	7272.5	19.5
60°-70°	9166.4	24.6
70°-80°	6260.6	16.8
80°-90°	550.6	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°	37304.0	100.0
0°-180°	37304.0	100.0

Coefficient of Utilization



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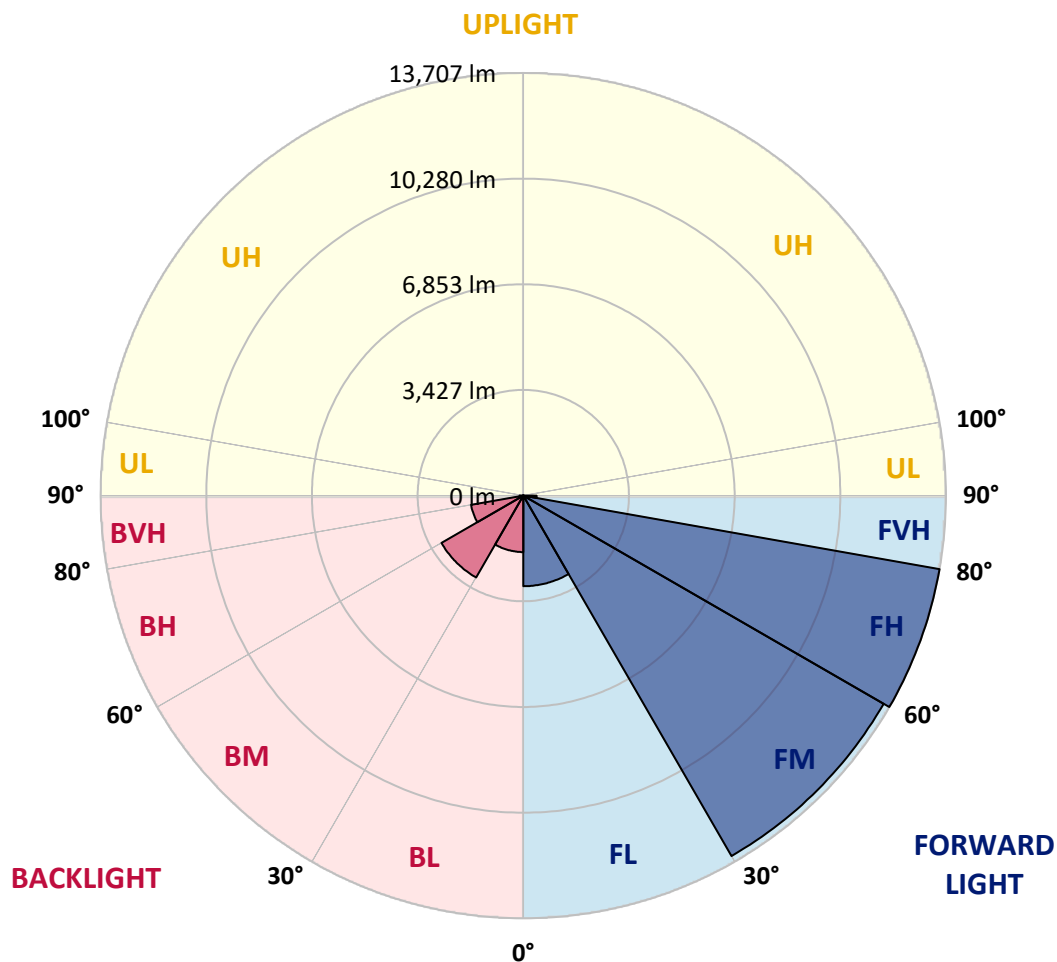
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2936.4	7.9			
FM	(30°-60°)	13495.2	36.2			
FH	(60°-80°)	13707.0	36.7			G5
FVH	(80°-90°)	430.4	1.2			G3/500
BL	(0°-30°)	1830.4	4.9	B3/2500		
BM	(30°-60°)	3064.2	8.2	B3/5000		
BH	(60°-80°)	1720.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	120.2	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°	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6
2.5°	6429.9	6460.1	6468.2	6488.3	6530.7	6564.9	6599.2	6595.1	6643.5	6663.6	6681.8
5°	6143.8	6151.8	6182.1	6222.4	6296.9	6391.6	6484.3	6486.3	6605.2	6699.9	6746.3
7.5°	5934.2	5960.4	5980.6	6022.9	6101.5	6204.2	6351.3	6363.4	6575.0	6762.4	6861.1
10°	5797.2	5827.4	5849.6	5902.0	5980.6	6095.4	6254.6	6276.8	6552.8	6861.1	7034.4
12.5°	5672.3	5702.5	5722.6	5791.1	5893.9	6035.0	6214.3	6240.5	6560.9	6976.0	7223.8
15°	5748.8	5773.0	5765.0	5785.1	5853.6	6014.8	6230.4	6256.6	6591.1	7086.8	7411.2
17.5°	6089.4	6109.5	6043.0	5966.5	5934.2	6053.1	6280.8	6309.0	6651.6	7201.7	7602.6
20°	6591.1	6645.5	6500.4	6329.2	6174.0	6190.1	6385.6	6415.8	6736.2	7316.5	7798.1
22.5°	7244.0	7284.3	7106.9	6824.8	6538.7	6391.6	6542.7	6560.9	6863.1	7465.6	8011.7
25°	8011.7	8035.9	7790.0	7427.3	7014.3	6736.2	6758.4	6790.6	7072.7	7634.9	8201.1
27.5°	8757.2	8833.8	8549.7	8106.4	7562.3	7098.9	7054.6	7074.7	7300.4	7729.6	8332.1
30°	9641.8	9635.8	9335.6	8821.7	8124.5	7493.8	7334.6	7330.6	7423.3	7775.9	8426.8
32.5°	10347.1	10429.7	10135.5	9575.3	8767.3	7902.9	7528.1	7520.0	7518.0	7856.5	8567.8
35°	11149.1	11161.2	10891.1	10326.9	9462.5	8416.7	7798.1	7757.8	7711.5	8029.8	8759.3
37.5°	11866.4	11922.8	11675.0	11042.3	10145.6	8950.7	8168.9	8142.7	8001.6	8330.1	9065.5
40°	12426.6	12468.9	12319.8	11717.3	10818.6	9527.0	8640.4	8592.0	8420.7	8821.7	9474.6
42.5°	12609.9	12696.6	12755.0	12458.8	11592.4	10210.1	9220.7	9160.2	9029.3	9567.3	9946.1
45°	12624.1	12761.1	13069.4	13083.5	12370.2	11028.2	9897.7	9855.4	9845.4	10522.4	10609.0
47.5°	12517.3	12656.3	13174.2	13454.2	13063.3	11854.3	10875.0	10808.5	10814.6	11703.2	11352.6
50°	12259.3	12424.6	13053.3	13692.0	13605.4	12712.7	11906.7	11884.5	12009.5	13051.2	12124.3
52.5°	11773.7	11973.2	12928.3	13841.1	14008.4	13452.2	13079.4	13017.0	13333.3	14514.1	12968.6
55°	10429.7	10729.9	12470.9	13923.7	14391.2	14159.5	14135.3	14248.2	14667.3	16110.0	13897.5
57.5°	9728.5	9954.2	11477.5	13937.8	14874.8	14981.6	15368.5	15396.7	16130.2	17804.6	14947.4
60°	9345.6	9545.1	10933.5	13845.2	15549.9	15999.2	16629.9	16730.6	17558.8	19640.3	16035.5
62.5°	9011.1	9182.4	10607.0	13524.8	16311.5	17508.4	18264.1	18312.4	19180.9	21667.4	17109.5
65°	8223.3	8418.7	9950.1	13204.4	16968.4	19394.5	20432.2	20375.8	20907.8	23416.5	17782.5
67.5°	7161.4	7409.2	8723.0	12098.1	17292.8	21455.9	22874.4	22803.9	22612.5	24563.0	17975.9
70°	5805.3	5938.2	7153.3	10185.9	15997.2	22537.9	24802.8	24728.2	23668.3	24714.1	17061.1
71°	4995.2	5202.8	6228.4	9047.4	14919.2	22207.5	25050.6	25030.5	23670.4	24297.0	16372.0
72.5°	3899.0	4026.0	4932.8	7010.2	12680.5	20329.5	24438.1	24514.6	23156.5	23138.4	14951.4
75°	2466.4	2522.8	3095.1	4126.7	6957.8	14397.3	20861.4	21069.0	20561.2	18939.1	11118.8
77.5°	1432.7	1505.2	1853.8	2432.1	3006.4	7814.2	14927.2	15152.9	14286.4	10427.7	4551.9
80°	834.2	914.8	1221.1	1412.5	1380.3	2899.6	7600.6	7985.5	6186.1	2633.6	1277.5
82.5°	463.5	517.9	858.4	860.4	735.5	947.1	2391.8	2502.6	1765.2	1061.9	521.9
85°	336.5	380.8	554.1	501.7	352.6	407.0	832.2	872.5	713.3	447.3	169.3
87.5°	118.9	169.3	304.3	241.8	96.7	84.6	239.8	195.5	181.4	124.9	38.3
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°	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6	6655.6
2.5°	6691.9	6695.9	6675.7	6639.5	6603.2	6556.9	6504.5	6464.2	6446.0	6444.0	6442.0
5°	6764.4	6774.5	6697.9	6585.1	6460.1	6307.0	6176.0	6026.9	5988.6	5928.2	5946.3
7.5°	6881.3	6875.2	6724.1	6484.3	6192.1	5867.7	5593.7	5434.5	5269.3	5222.9	5224.9
10°	7048.5	7010.2	6724.1	6278.8	5791.1	5309.6	4926.7	4684.9	4553.9	4445.1	4404.8
12.5°	7225.8	7129.1	6659.6	5990.6	5275.3	4684.9	4273.8	3947.4	3862.8	3774.1	3776.1
15°	7395.1	7233.9	6532.7	5585.6	4719.2	4017.9	3619.0	3423.5	3397.3	3407.4	3405.4
17.5°	7548.2	7308.4	6339.2	5134.3	4070.3	3445.7	3234.1	3248.2	3318.7	3369.1	3375.1
20°	7703.4	7352.8	6051.1	4529.7	3457.8	3099.1	3107.1	3218.0	3324.8	3393.3	3403.4
22.5°	7850.5	7372.9	5712.6	3945.4	3014.5	2952.0	3070.9	3189.8	3294.5	3361.0	3371.1
25°	7947.2	7326.6	5233.0	3334.8	2796.8	2899.6	3024.5	3125.3	3213.9	3282.5	3298.6
27.5°	7973.4	7177.5	4638.6	2841.2	2696.1	2849.2	2964.1	3038.6	3107.1	3171.6	3183.7
30°	7959.3	6957.8	3985.7	2551.0	2637.7	2790.8	2879.5	2933.9	3016.5	3066.8	3076.9
32.5°	7937.1	6701.9	3304.6	2395.8	2589.3	2736.4	2788.8	2837.1	2835.1	2815.0	2829.1
35°	7945.2	6395.6	2752.5	2303.2	2547.0	2696.1	2740.4	2680.0	2506.7	2498.6	2490.6
37.5°	7987.5	6093.4	2351.5	2238.7	2524.8	2690.0	2714.2	2436.1	2283.0	2212.5	2194.3
40°	8096.3	5740.8	2087.6	2190.3	2522.8	2736.4	2595.3	2313.2	2019.0	1882.0	1871.9
42.5°	8241.4	5394.2	1926.4	2160.1	2547.0	2806.9	2547.0	2139.9	1819.6	1739.0	1726.9
45°	8457.0	4997.2	1837.7	2146.0	2583.2	2833.1	2530.9	2013.0	1739.0	1674.5	1674.5
47.5°	8700.8	4618.4	1789.3	2135.9	2629.6	2815.0	2387.8	1972.7	1700.7	1708.7	1747.0
50°	8942.6	4290.0	1753.1	2113.7	2669.9	2804.9	2329.4	1970.7	1710.7	1813.5	1882.0
52.5°	9222.7	4058.2	1708.7	2077.5	2669.9	2740.4	2311.2	2011.0	1739.0	1769.2	1799.4
55°	9561.2	3985.7	1652.3	1998.9	2621.5	2579.2	2301.1	2069.4	1759.1	1688.6	1700.7
57.5°	10008.6	4102.6	1597.9	1900.2	2510.7	2412.0	2297.1	2085.5	1712.8	1654.3	1642.2
60°	10528.4	4334.3	1581.8	1799.4	2359.6	2268.9	2272.9	2039.2	1648.3	1587.8	1597.9
62.5°	10893.2	4473.3	1571.7	1722.8	2194.3	2111.7	2214.5	1982.8	1620.1	1567.7	1577.8
65°	10893.2	4304.1	1479.0	1606.0	1980.8	1922.3	2144.0	1912.2	1583.8	1523.3	1513.3
67.5°	10480.1	3810.4	1338.0	1430.7	1745.0	1706.7	2045.2	1827.6	1529.4	1483.0	1458.9
70°	9404.1	2889.5	1160.6	1225.1	1446.8	1481.0	1918.3	1712.8	1438.7	1382.3	1346.0
71°	8930.5	2516.8	1086.1	1120.3	1331.9	1382.3	1857.8	1664.4	1398.4	1317.8	1253.3
72.5°	8017.7	2119.8	973.3	987.4	1138.5	1229.2	1730.9	1571.7	1321.8	1207.0	1134.5
75°	6091.4	1547.5	783.8	775.8	842.3	975.3	1464.9	1400.4	1158.6	1003.5	961.2
77.5°	2631.6	842.3	586.4	592.4	572.3	739.5	1152.6	1203.0	993.4	816.1	777.8
80°	797.9	485.6	401.0	409.0	382.9	495.7	812.0	943.0	797.9	634.7	582.3
82.5°	409.0	290.2	274.0	270.0	243.8	280.1	491.7	644.8	570.2	397.0	350.6
85°	177.3	155.2	135.0	131.0	114.9	100.8	175.3	322.4	302.3	221.7	211.6
87.5°	44.3	40.3	26.2	24.2	14.1	2.0	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)