

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: P647569

Luminaire Tested: **GALN-SA7D-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647569
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-SA7D-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42996.9 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

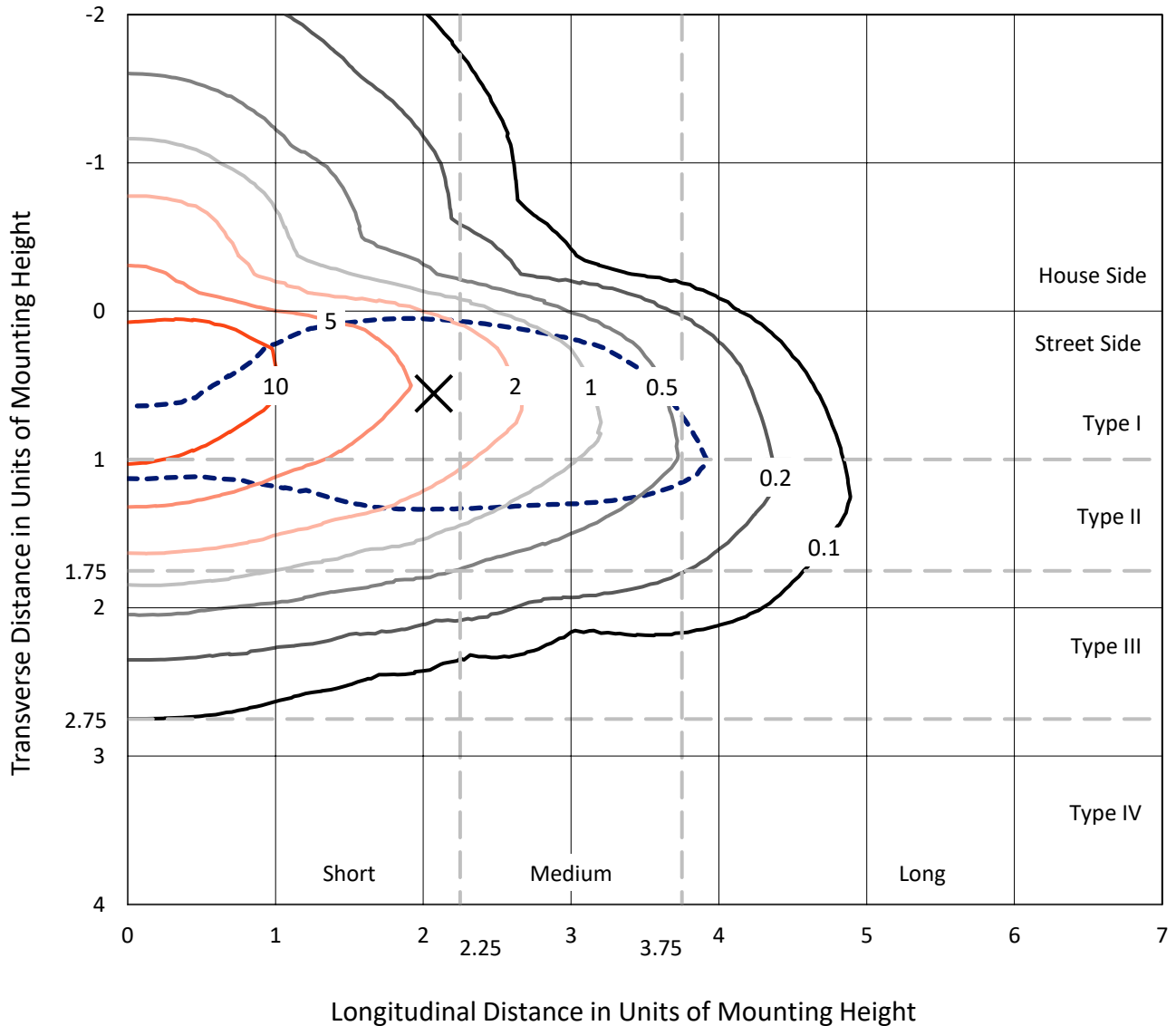
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

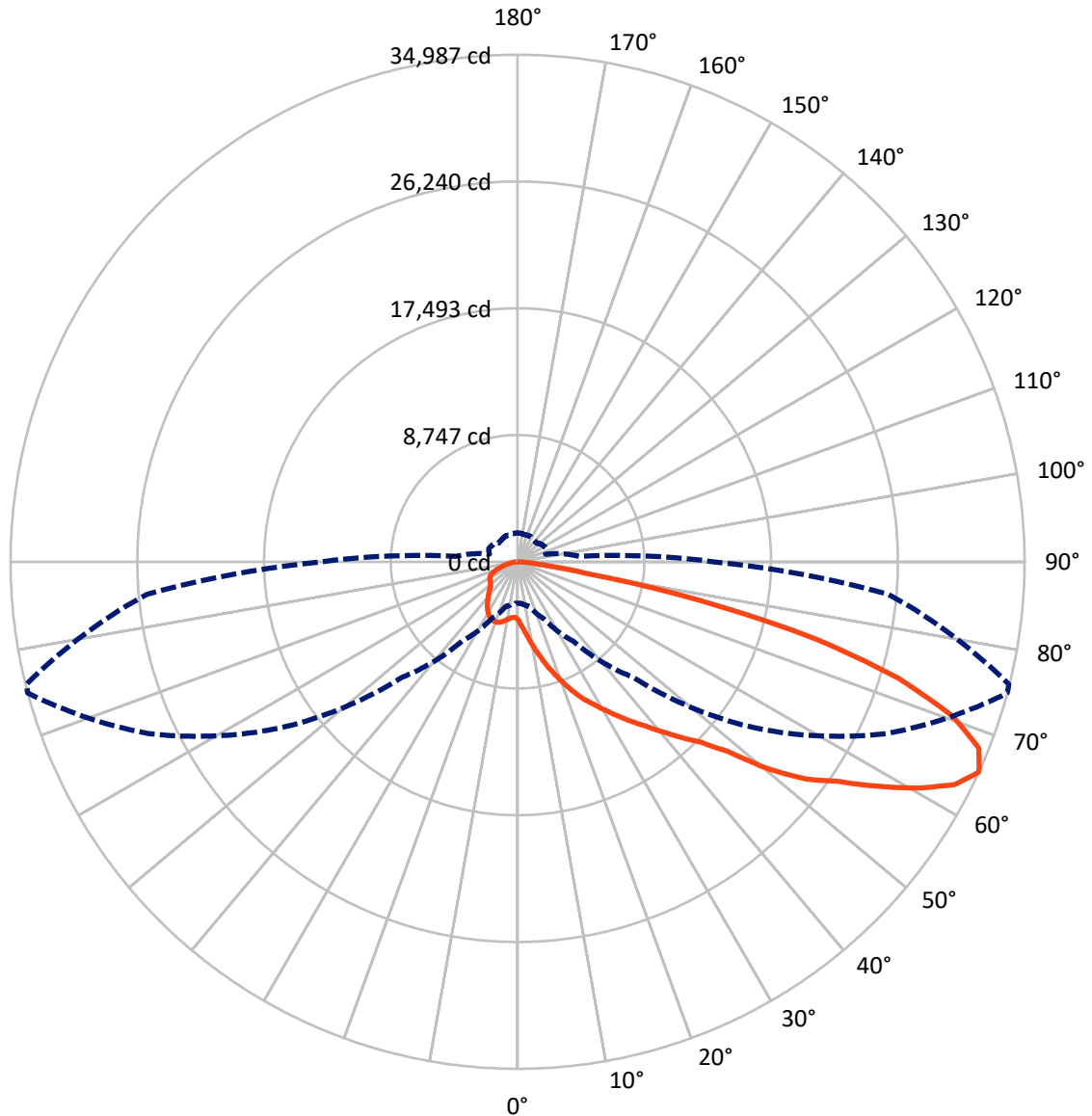
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7228.3	0.0	7228.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	35768.5	0.0	35768.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	42996.9	0.0	42996.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.4	1.1
10°-20°	1901.1	4.4
20°-30°	3672.4	8.5
30°-40°	5965.0	13.9
40°-50°	8205.4	19.1
50°-60°	9687.8	22.5
60°-70°	8488.1	19.7
70°-80°	4052.3	9.4
80°-90°	539.2	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°	42996.9	100.0
0°-180°	42996.9	100.0

Coefficient of Utilization

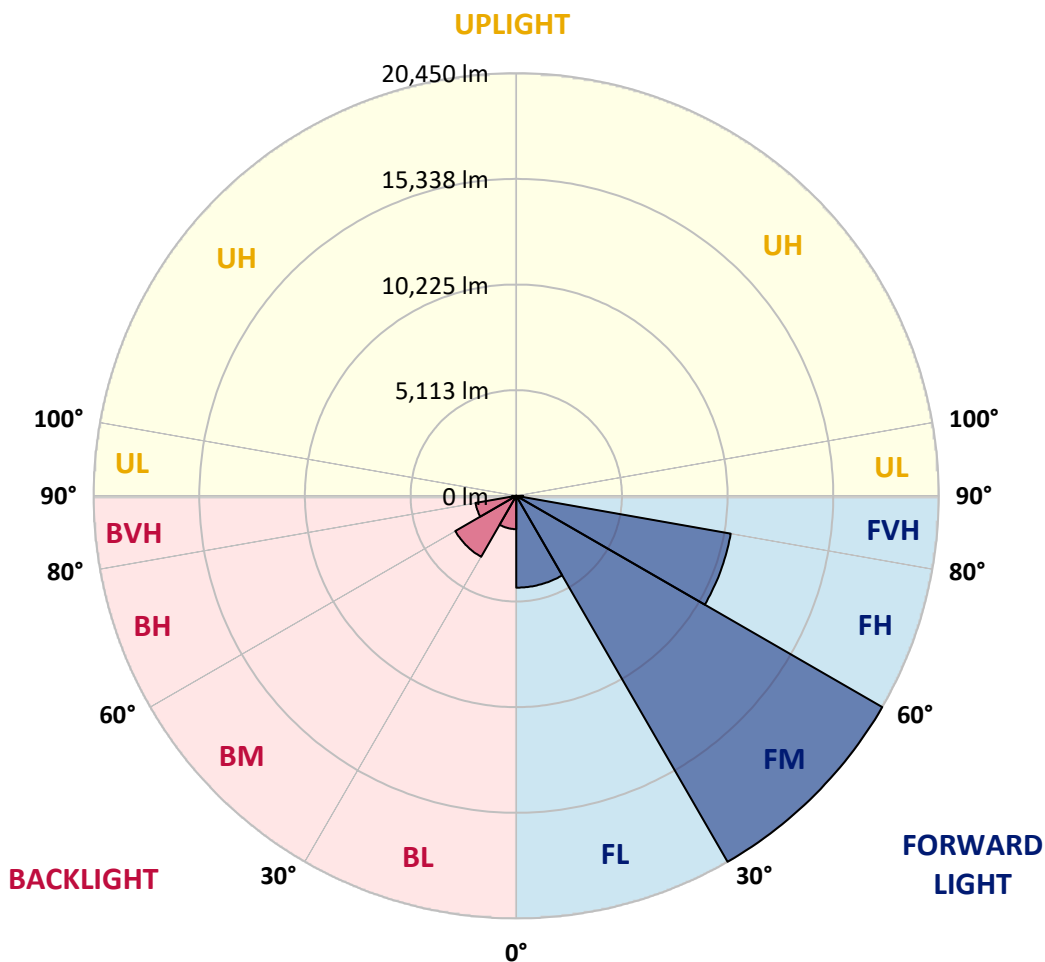


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4445.2	10.3			
FM (30°-60°)	20450.2	47.6			
FH (60°-80°)	10536.2	24.5			G4/12000
FVH (80°-90°)	337.0	0.8			G3/500
BL (0°-30°)	1613.7	3.8	B3/2500		
BM (30°-60°)	3408.1	7.9	B3/5000		
BH (60°-80°)	2004.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	202.2	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°	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9
2.5°	5308.0	5273.0	5235.7	5133.0	5023.4	4899.9	4722.6	4552.4	4326.2	4319.1	4151.2
5°	6779.5	6756.2	6590.6	6495.0	6240.8	5902.6	5615.8	5170.4	4757.6	4708.6	4382.1
7.5°	8132.2	8041.2	7978.2	7805.6	7553.8	7120.1	6565.0	5963.2	5273.0	5207.7	4666.6
10°	9151.3	9142.0	9109.3	8960.1	8771.2	8339.7	7724.1	6861.1	5926.0	5797.7	5011.7
12.5°	9914.0	9920.9	9916.2	9914.0	9778.7	9412.5	8745.5	7836.0	6586.0	6495.0	5410.5
15°	10415.3	10485.3	10513.3	10629.9	10641.5	10396.7	9823.0	8778.1	7329.9	7194.7	5839.7
17.5°	10746.5	10781.4	10912.0	11110.3	11271.2	11226.9	10716.1	9650.4	8090.2	7864.0	6285.1
20°	11063.6	11124.3	11224.6	11495.1	11779.6	11910.2	11551.1	10543.6	8843.4	8698.9	6777.2
22.5°	11723.6	11809.9	11844.9	11982.6	12225.1	12456.0	12292.7	11399.5	9669.0	9473.1	7299.6
25°	12840.7	12931.7	12833.8	12801.1	12880.4	12994.7	12959.7	12206.4	10448.0	10168.1	7794.0
27.5°	14296.0	14307.7	14116.5	13934.5	13738.6	13680.3	13573.1	12922.4	11124.3	10891.1	8290.7
30°	15858.6	15802.6	15485.4	15156.5	14825.4	14498.9	14191.1	13612.7	11877.6	11609.4	8778.1
32.5°	17309.2	17278.9	16926.7	16415.9	15856.2	15548.3	14925.7	14310.0	12684.5	12425.7	9279.6
35°	18395.9	18440.2	18053.1	17495.7	16884.7	16611.8	15825.9	15042.3	13519.4	13237.2	9825.3
37.5°	19167.8	19144.5	18801.7	18318.9	17782.6	17544.7	16877.7	15842.2	14417.3	14146.8	10422.4
40°	19443.1	19429.0	19174.8	18822.7	18482.2	18398.2	17978.5	16705.1	15445.8	15128.6	11140.6
42.5°	19268.1	19298.4	19130.6	19034.9	18971.9	19032.6	19072.2	17836.2	16567.5	16276.0	11919.5
45°	18731.7	18715.4	18692.1	18848.4	19202.8	19601.6	20154.3	18904.3	17787.3	17554.0	12964.4
47.5°	17773.2	17889.8	17948.2	18379.6	19153.8	20098.4	21399.7	20336.2	19557.3	19354.4	14557.2
50°	16432.3	16525.5	16870.7	17637.9	18792.4	20284.9	22617.1	22677.7	22509.8	22129.7	16287.7
52.5°	14338.0	14482.6	15193.9	16600.1	18050.7	20208.0	23354.1	24685.7	24907.2	24622.7	17992.5
55°	11994.2	12197.1	12948.0	14792.7	17029.3	19788.2	23862.5	25849.4	26733.3	26469.8	19634.3
57.5°	9699.3	9914.0	10685.8	12472.3	15247.5	18860.0	24196.0	27146.1	29219.4	28876.6	21677.2
60°	7269.3	7493.2	8155.5	9995.5	12710.1	17045.6	23969.7	28270.2	31703.1	31556.2	23722.6
62.5°	4689.9	4937.1	5513.2	7036.0	9769.3	14566.5	22759.3	28890.5	33853.3	33676.0	25215.1
65°	2856.9	2884.9	3202.0	4368.1	6686.3	11278.3	19991.1	28067.3	34986.7	34933.1	25669.9
67.5°	1847.0	1891.3	2036.0	2616.6	4009.0	7833.7	15984.5	25350.3	34324.4	34305.7	24730.0
70°	1560.2	1574.2	1639.5	1765.4	2329.8	4750.5	11224.6	21019.6	31808.0	31808.0	22470.1
72.5°	1394.6	1413.3	1436.6	1476.3	1662.8	2691.2	6697.9	16362.3	27463.3	27645.1	19125.9
75°	1266.3	1261.6	1275.7	1282.7	1417.9	1758.5	3463.2	12101.5	21245.8	20882.0	13850.6
77.5°	1084.5	1091.4	1084.5	1114.8	1252.3	1338.6	1758.5	8120.5	12875.7	12404.7	6952.1
80°	890.9	902.6	914.2	932.9	1070.4	1016.8	1056.4	3701.1	4762.2	4662.0	2147.9
82.5°	669.3	685.7	704.3	748.6	841.9	671.7	667.0	1581.2	1718.8	1574.2	790.6
85°	270.5	319.5	482.7	527.0	529.4	368.5	410.4	660.0	702.0	685.7	310.1
87.5°	63.0	74.6	156.3	235.5	216.9	137.6	151.6	214.5	244.8	226.2	104.9
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°	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9	3994.9
2.5°	4074.3	3992.6	3852.7	3745.4	3668.4	3600.9	3558.8	3533.2	3523.9	3521.5	3523.9
5°	4211.8	4067.2	3845.7	3705.8	3628.8	3584.5	3558.8	3556.5	3558.8	3561.2	3554.2
7.5°	4400.8	4193.2	3904.0	3773.4	3715.1	3682.4	3670.8	3666.1	3668.4	3666.1	3666.1
10°	4652.6	4368.1	4018.3	3883.0	3834.0	3796.7	3778.1	3766.4	3757.1	3747.8	3743.1
12.5°	4930.2	4561.7	4141.9	4011.3	3941.3	3883.0	3841.0	3810.7	3789.7	3768.7	3764.0
15°	5240.3	4766.9	4279.5	4097.6	3997.3	3911.0	3838.7	3789.7	3752.4	3722.1	3719.8
17.5°	5536.5	4960.5	4372.7	4137.2	3990.3	3869.0	3773.4	3705.8	3659.1	3619.5	3614.8
20°	5853.6	5144.7	4414.7	4111.5	3920.3	3773.4	3647.4	3565.9	3512.2	3467.9	3460.9
22.5°	6173.2	5301.0	4410.1	4029.9	3799.0	3626.5	3493.5	3407.2	3344.3	3300.0	3283.7
25°	6478.7	5426.9	4351.8	3899.3	3631.2	3451.5	3316.3	3237.0	3181.0	3127.4	3127.4
27.5°	6753.8	5501.5	4242.1	3740.8	3458.6	3269.7	3162.4	3090.1	3038.7	3003.8	2982.8
30°	7024.4	5536.5	4092.9	3540.2	3276.6	3115.7	3029.4	2987.5	2940.8	2901.2	2896.6
32.5°	7266.9	5529.5	3906.3	3344.3	3104.0	2989.8	2954.8	2922.2	2873.2	2817.2	2803.2
35°	7502.5	5482.9	3684.8	3129.7	2959.5	2915.2	2924.5	2877.8	2789.2	2719.3	2707.6
37.5°	7759.1	5398.9	3442.2	2954.8	2838.2	2880.2	2903.5	2800.9	2656.3	2546.7	2521.0
40°	8055.2	5303.3	3190.3	2779.9	2742.6	2847.5	2847.5	2658.7	2460.4	2392.8	2374.1
42.5°	8402.7	5224.0	2980.5	2633.0	2663.3	2768.2	2756.6	2469.7	2388.1	2353.1	2343.8
45°	8953.1	5196.0	2763.6	2504.7	2598.0	2675.0	2579.4	2404.4	2357.8	2329.8	2320.5
47.5°	9823.0	5228.6	2572.3	2409.1	2523.4	2581.7	2381.1	2360.1	2327.5	2287.8	2283.1
50°	10629.9	5198.3	2437.1	2355.5	2458.1	2469.7	2299.5	2306.5	2287.8	2243.5	2234.2
52.5°	11289.9	5102.7	2350.8	2327.5	2402.1	2273.8	2222.5	2248.1	2241.2	2185.2	2175.9
55°	12015.2	5044.4	2308.8	2327.5	2364.8	2103.6	2150.2	2187.5	2178.2	2138.6	2136.3
57.5°	12894.4	5056.1	2278.5	2334.4	2327.5	2017.3	2077.9	2122.2	2119.9	2108.2	2108.2
60°	13794.6	5060.8	2231.9	2332.2	2283.1	1949.7	2003.3	2066.3	2071.0	2077.9	2077.9
62.5°	14093.1	4857.8	2140.9	2290.2	2185.2	1884.4	1933.3	2019.7	2015.0	2033.6	2036.0
65°	13535.7	4295.8	2005.7	2194.5	2059.3	1837.7	1879.7	1959.0	1933.3	1982.3	1991.6
67.5°	12320.7	3554.2	1795.7	2021.9	1919.4	1788.8	1844.7	1875.1	1828.4	1924.0	1926.3
70°	10648.6	2775.3	1529.9	1777.1	1760.7	1737.5	1816.7	1770.1	1704.8	1821.4	1798.1
72.5°	8904.1	2119.9	1222.0	1452.9	1548.5	1660.5	1767.8	1634.8	1543.8	1578.8	1536.9
75°	6688.5	1567.2	981.8	1138.1	1289.7	1550.9	1723.5	1471.6	1331.6	1299.0	1289.7
77.5°	3409.6	1023.8	734.6	851.2	967.9	1401.6	1662.8	1280.4	1103.1	1051.8	1028.5
80°	1217.4	636.7	517.7	587.7	653.0	1205.7	1452.9	1058.8	855.9	846.6	855.9
82.5°	564.4	410.4	347.5	384.8	387.1	804.6	1107.8	790.6	650.7	988.9	834.9
85°	242.6	205.2	195.9	191.2	177.3	359.2	622.7	424.5	662.3	296.2	272.9
87.5°	72.3	81.6	72.3	53.6	39.6	39.6	63.0	23.3	16.3	11.7	11.7
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)