

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: P459461

Luminaire Tested: **GALN-SA9A-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459461
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-SA9A-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39359 lumens
Efficiency: N/A
Efficacy: 143.6 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): 274
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

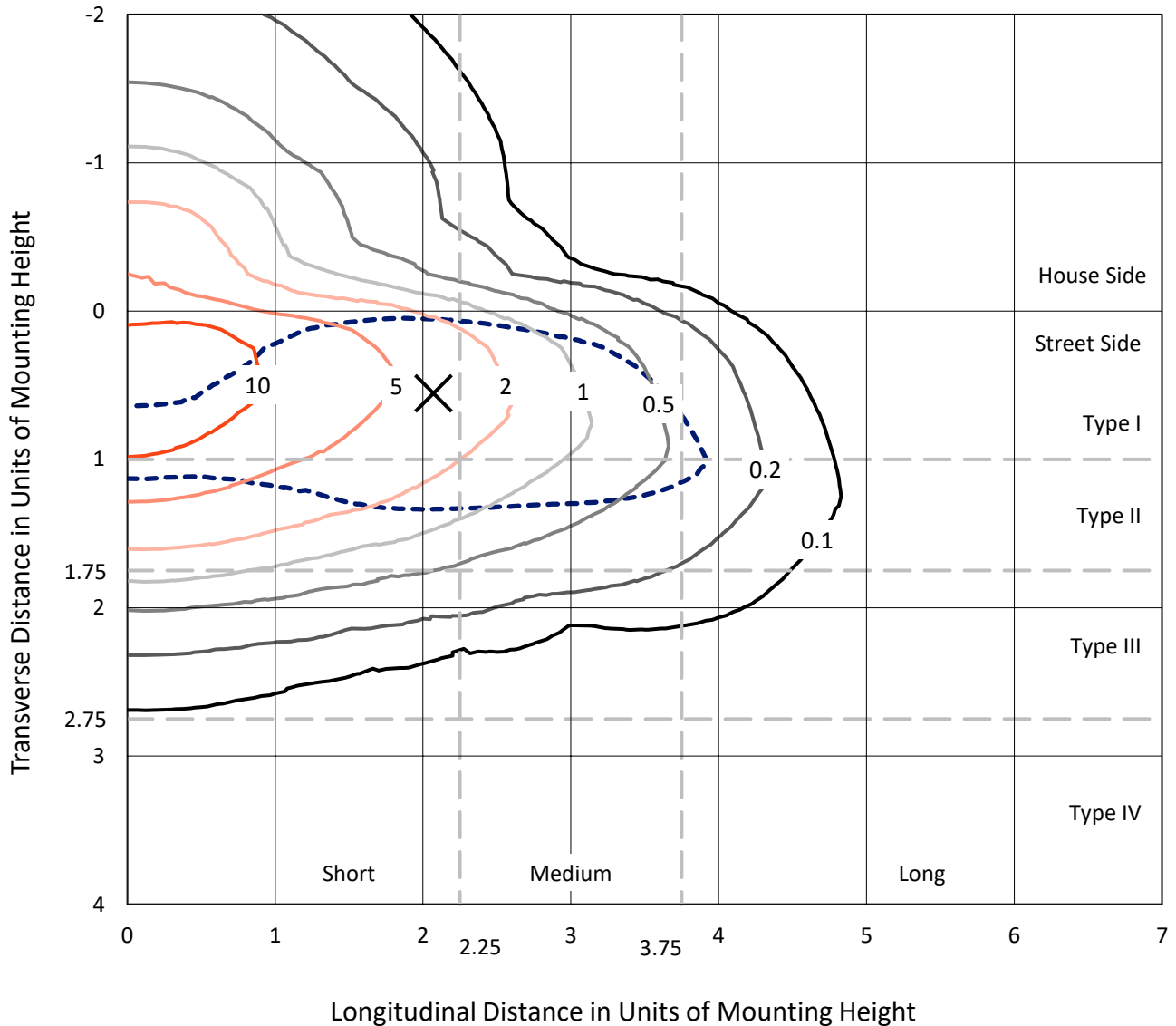




REPORT NUMBER: P459461
 CATALOG NUMBER: GALN-SA9A-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

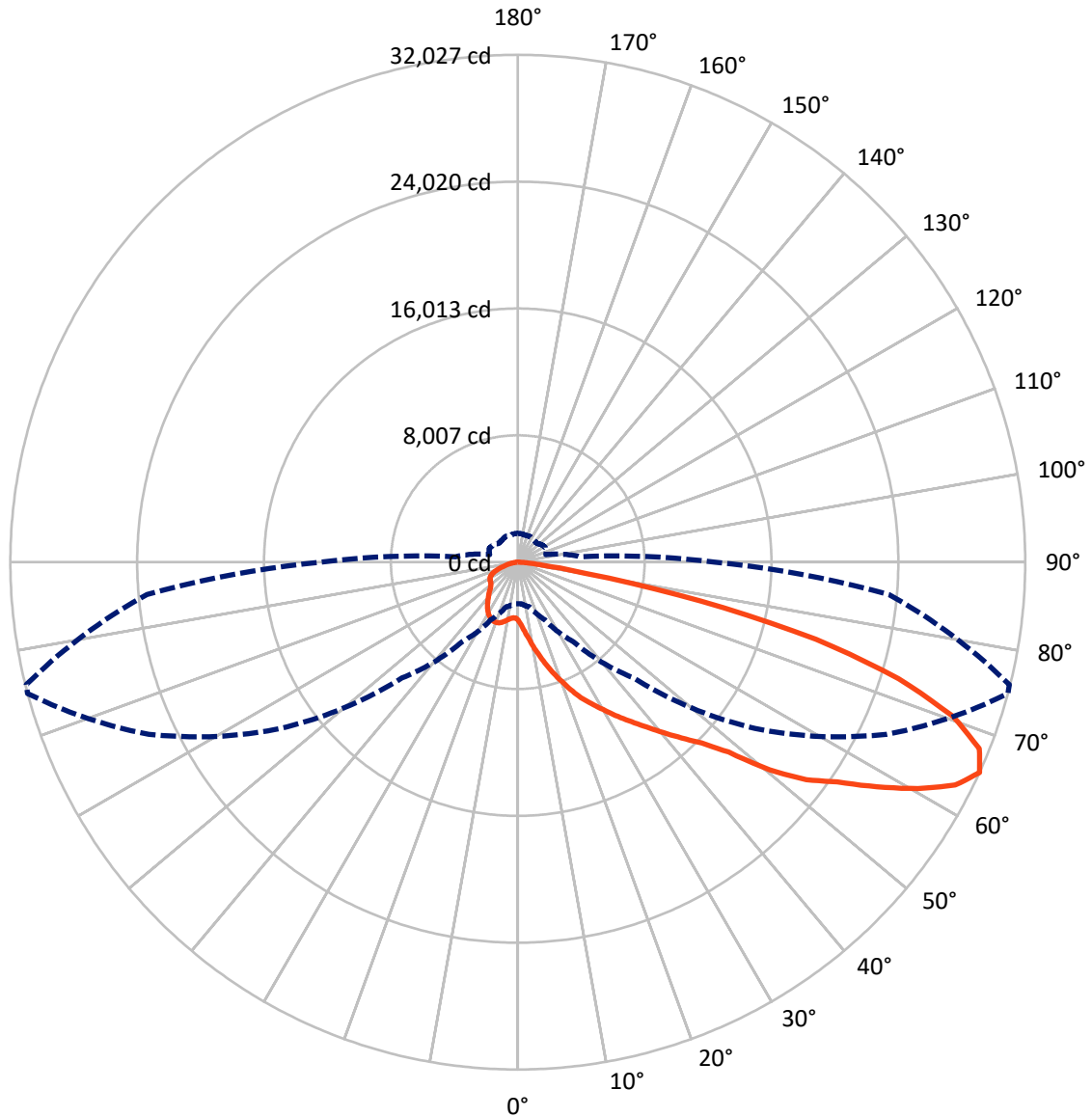
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

REPORT NUMBER: P459461
CATALOG NUMBER: GALN-SA9A-735-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459461

CATALOG NUMBER: GALN-SA9A-735-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6616.8	0.0	6616.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32742.2	0.0	32742.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	39359.0	0.0	39359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.3	1.1
10°-20°	1740.3	4.4
20°-30°	3361.7	8.5
30°-40°	5460.4	13.9
40°-50°	7511.2	19.1
50°-60°	8868.2	22.5
60°-70°	7770.0	19.7
70°-80°	3709.4	9.4
80°-90°	493.6	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°	39359.0	100.0
0°-180°	39359.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459461

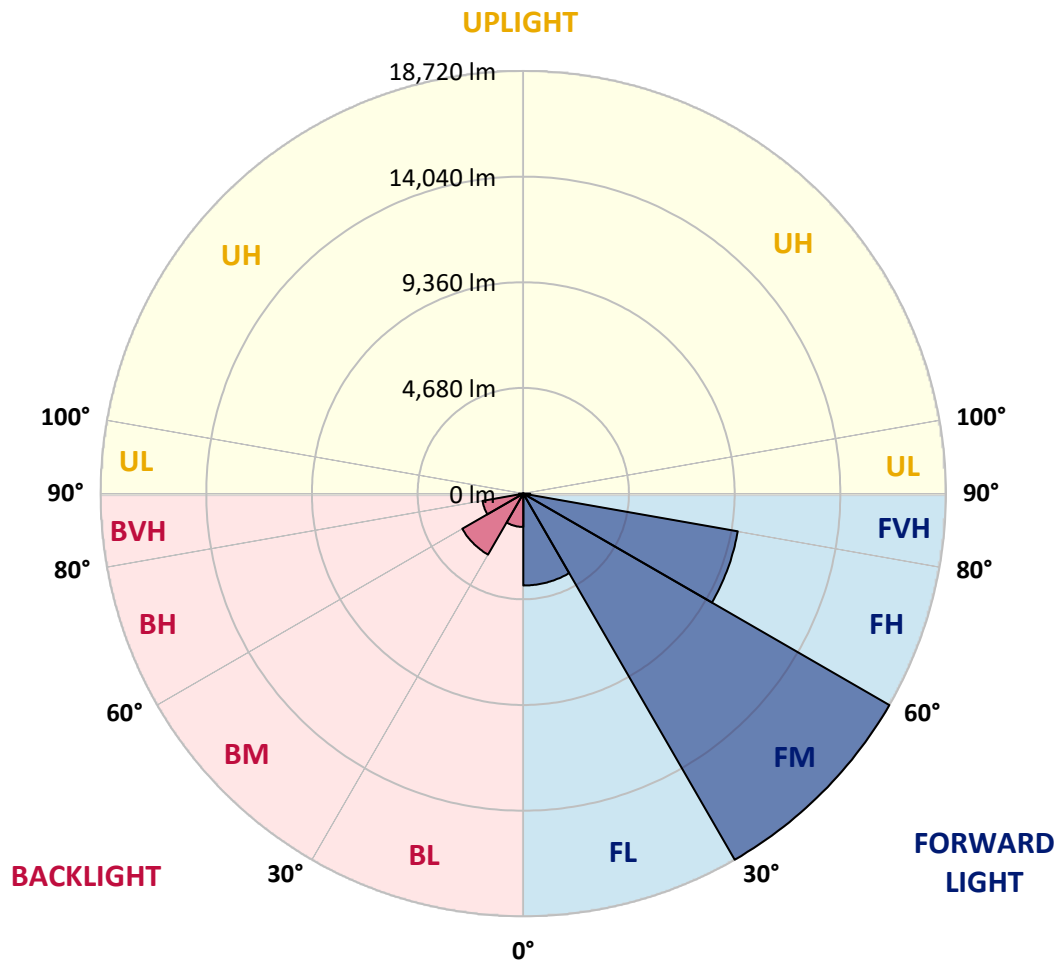
CATALOG NUMBER: GALN-SA9A-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4069.1	10.3			
FM	(30°-60°)	18720.0	47.6			
FH	(60°-80°)	9644.7	24.5			G4/12000
FVH	(80°-90°)	308.5	0.8			G3/500
BL	(0°-30°)	1477.2	3.8	B3/2500		
BM	(30°-60°)	3119.8	7.9	B3/5000		
BH	(60°-80°)	1834.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	185.1	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





REPORT NUMBER: P459461

CATALOG NUMBER: GALN-SA9A-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	4858.9	4826.8	4792.7	4698.7	4598.4	4485.3	4323.0	4167.2	3960.1	3953.7	3800.0
5°	6205.9	6184.6	6033.0	5945.5	5712.8	5403.2	5140.6	4732.9	4355.0	4310.2	4011.3
7.5°	7444.1	7360.9	7303.2	7145.2	6914.7	6517.6	6009.5	5458.7	4826.8	4767.1	4271.8
10°	8377.0	8368.5	8338.6	8202.0	8029.1	7634.1	7070.5	6280.6	5424.6	5307.2	4587.7
12.5°	9075.1	9081.5	9077.3	9075.1	8951.3	8616.1	8005.6	7173.0	6028.7	5945.5	4952.8
15°	9534.1	9598.2	9623.8	9730.5	9741.2	9517.0	8991.9	8035.5	6709.7	6585.9	5345.6
17.5°	9837.3	9869.3	9988.8	10170.3	10317.6	10277.0	9809.5	8833.9	7405.7	7198.6	5753.3
20°	10127.6	10183.1	10274.9	10522.5	10783.0	10902.5	10573.8	9651.5	8095.2	7962.9	6203.8
22.5°	10731.7	10810.7	10842.8	10968.7	11190.7	11402.1	11252.6	10435.0	8851.0	8671.6	6682.0
25°	11754.3	11837.6	11747.9	11718.0	11790.6	11895.2	11863.2	11173.7	9564.0	9307.8	7134.6
27.5°	13086.5	13097.1	12922.1	12755.6	12576.2	12522.9	12424.7	11829.0	10183.1	9969.6	7589.3
30°	14516.8	14465.5	14175.2	13874.2	13571.1	13272.2	12990.4	12460.9	10872.6	10627.1	8035.5
32.5°	15844.6	15816.9	15494.5	15027.0	14514.6	14232.9	13662.9	13099.3	11611.3	11374.3	8494.5
35°	16839.5	16880.0	16525.6	16015.4	15456.1	15206.3	14486.9	13769.6	12375.6	12117.2	8994.0
37.5°	17546.1	17524.7	17210.9	16769.0	16278.0	16060.3	15449.7	14501.8	13197.5	12949.8	9540.5
40°	17798.0	17785.2	17552.5	17230.1	16918.5	16841.6	16457.3	15291.7	14138.9	13848.6	10198.0
42.5°	17637.9	17665.6	17511.9	17424.4	17366.8	17422.3	17458.6	16327.1	15165.8	14898.9	10911.1
45°	17146.9	17131.9	17110.6	17253.6	17578.1	17943.2	18449.1	17304.9	16282.3	16068.8	11867.5
47.5°	16269.5	16376.2	16429.6	16824.5	17533.3	18397.9	19589.1	18615.6	17902.6	17716.9	13325.6
50°	15041.9	15127.3	15443.3	16145.7	17202.4	18568.7	20703.5	20759.0	20605.3	20257.3	14909.6
52.5°	13124.9	13257.2	13908.4	15195.7	16523.5	18498.2	21378.1	22597.1	22799.9	22539.4	16470.1
55°	10979.4	11165.1	11852.5	13541.2	15588.5	18114.0	21843.5	23662.4	24471.5	24230.2	17973.1
57.5°	8878.7	9075.1	9781.7	11417.0	13957.5	17264.3	22148.8	24849.3	26747.2	26433.4	19843.2
60°	6654.2	6859.2	7465.5	9149.8	11634.8	15603.4	21941.7	25878.3	29020.8	28886.3	21715.4
62.5°	4293.1	4519.4	5046.7	6440.8	8942.8	13334.1	20833.7	26446.2	30989.1	30826.8	23081.7
65°	2615.2	2640.8	2931.1	3998.5	6120.5	10324.0	18299.7	25692.6	32026.6	31977.5	23498.0
67.5°	1690.8	1731.3	1863.7	2395.3	3669.8	7170.9	14632.1	23205.5	31420.3	31403.2	22637.6
70°	1428.2	1441.0	1500.8	1616.1	2132.7	4348.6	10274.9	19241.1	29116.8	29116.8	20569.0
72.5°	1276.6	1293.7	1315.0	1351.3	1522.1	2463.6	6131.2	14977.9	25139.7	25306.2	17507.7
75°	1159.2	1154.9	1167.7	1174.2	1298.0	1609.7	3170.2	11077.6	19448.2	19115.2	12678.7
77.5°	992.7	999.1	992.7	1020.4	1146.4	1225.4	1609.7	7433.4	11786.3	11355.1	6363.9
80°	815.5	826.2	836.8	853.9	979.9	930.8	967.1	3388.0	4359.3	4267.5	1966.2
82.5°	612.7	627.6	644.7	685.3	770.7	614.8	610.6	1447.4	1573.4	1441.0	723.7
85°	247.6	292.5	441.9	482.5	484.6	337.3	375.7	604.2	642.6	627.6	283.9
87.5°	57.6	68.3	143.0	215.6	198.5	126.0	138.8	196.4	224.2	207.1	96.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P459461
 CATALOG NUMBER: GALN-SA9A-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9	3656.9
2.5°	3729.5	3654.8	3526.7	3428.5	3358.1	3296.2	3257.7	3234.3	3225.7	3223.6	3225.7
5°	3855.5	3723.1	3520.3	3392.2	3321.8	3281.2	3257.7	3255.6	3257.7	3259.9	3253.5
7.5°	4028.4	3838.4	3573.7	3454.1	3400.8	3370.9	3360.2	3355.9	3358.1	3355.9	3355.9
10°	4259.0	3998.5	3678.3	3554.5	3509.6	3475.5	3458.4	3447.7	3439.2	3430.7	3426.4
12.5°	4513.0	4175.7	3791.4	3671.9	3607.8	3554.5	3516.1	3488.3	3469.1	3449.9	3445.6
15°	4796.9	4363.6	3917.4	3750.9	3659.1	3580.1	3513.9	3469.1	3434.9	3407.2	3405.0
17.5°	5068.1	4540.8	4002.8	3787.2	3652.7	3541.7	3454.1	3392.2	3349.5	3313.2	3309.0
20°	5358.4	4709.4	4041.2	3763.7	3588.6	3454.1	3338.9	3264.1	3215.0	3174.5	3168.1
22.5°	5650.9	4852.4	4036.9	3689.0	3477.6	3319.6	3198.0	3119.0	3061.3	3020.8	3005.8
25°	5930.5	4967.7	3983.6	3569.4	3323.9	3159.5	3035.7	2963.1	2911.9	2862.8	2862.8
27.5°	6182.4	5036.0	3883.2	3424.3	3165.9	2993.0	2894.8	2828.6	2781.7	2749.6	2730.4
30°	6430.1	5068.1	3746.6	3240.7	2999.4	2852.1	2773.1	2734.7	2692.0	2655.7	2651.4
32.5°	6652.1	5061.7	3575.8	3061.3	2841.4	2736.8	2704.8	2674.9	2630.1	2578.9	2566.1
35°	6867.7	5019.0	3373.0	2864.9	2709.1	2668.5	2677.1	2634.4	2553.2	2489.2	2478.5
37.5°	7102.5	4942.1	3151.0	2704.8	2598.1	2636.5	2657.9	2563.9	2431.6	2331.2	2307.7
40°	7373.7	4854.6	2920.4	2544.7	2510.5	2606.6	2606.6	2433.7	2252.2	2190.3	2173.2
42.5°	7691.8	4782.0	2728.3	2410.2	2438.0	2534.0	2523.4	2260.8	2186.1	2154.0	2145.5
45°	8195.6	4756.4	2529.8	2292.8	2378.2	2448.6	2361.1	2201.0	2158.3	2132.7	2124.1
47.5°	8991.9	4786.3	2354.7	2205.3	2309.9	2363.2	2179.7	2160.4	2130.6	2094.3	2090.0
50°	9730.5	4758.5	2230.9	2156.2	2250.1	2260.8	2104.9	2111.3	2094.3	2053.7	2045.2
52.5°	10334.7	4671.0	2151.9	2130.6	2198.9	2081.5	2034.5	2058.0	2051.6	2000.3	1991.8
55°	10998.6	4617.6	2113.5	2130.6	2164.7	1925.6	1968.3	2002.5	1993.9	1957.6	1955.5
57.5°	11803.4	4628.3	2085.7	2137.0	2130.6	1846.6	1902.1	1942.7	1940.6	1929.9	1929.9
60°	12627.5	4632.6	2043.0	2134.8	2090.0	1784.7	1833.8	1891.5	1895.7	1902.1	1902.1
62.5°	12900.7	4446.8	1959.8	2096.4	2000.3	1724.9	1769.8	1848.8	1844.5	1861.6	1863.7
65°	12390.5	3932.3	1835.9	2008.9	1885.0	1682.2	1720.7	1793.2	1769.8	1814.6	1823.1
67.5°	11278.3	3253.5	1643.8	1850.9	1757.0	1637.4	1688.6	1716.4	1673.7	1761.2	1763.4
70°	9747.6	2540.4	1400.4	1626.7	1611.8	1590.4	1663.0	1620.3	1560.6	1667.3	1645.9
72.5°	8150.7	1940.6	1118.6	1330.0	1417.5	1520.0	1618.2	1496.5	1413.3	1445.3	1406.8
75°	6122.7	1434.6	898.8	1041.8	1180.6	1419.7	1577.6	1347.1	1219.0	1189.1	1180.6
77.5°	3121.1	937.2	672.5	779.2	886.0	1283.0	1522.1	1172.0	1009.8	962.8	941.5
80°	1114.4	582.8	473.9	538.0	597.7	1103.7	1330.0	969.2	783.5	774.9	783.5
82.5°	516.6	375.7	318.1	352.2	354.4	736.5	1014.0	723.7	595.6	905.2	764.3
85°	222.0	187.9	179.3	175.1	162.2	328.8	570.0	388.5	606.3	271.1	249.8
87.5°	66.2	74.7	66.2	49.1	36.3	36.3	57.6	21.3	14.9	10.7	10.7
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)