

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: P458916

Luminaire Tested: **GALN-SA4B-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20923 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

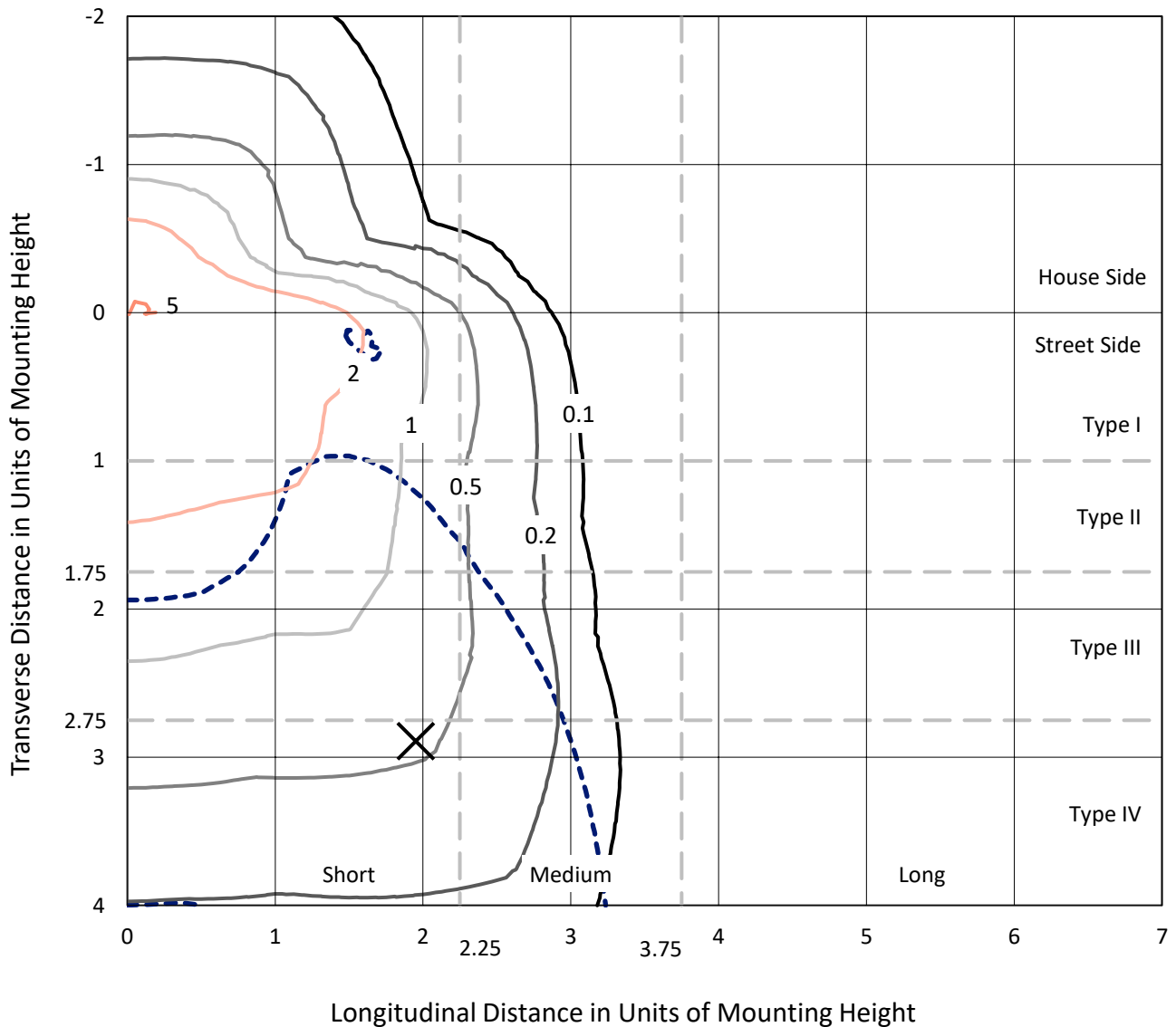
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458916
 CATALOG NUMBER: GALN-SA4B-735-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

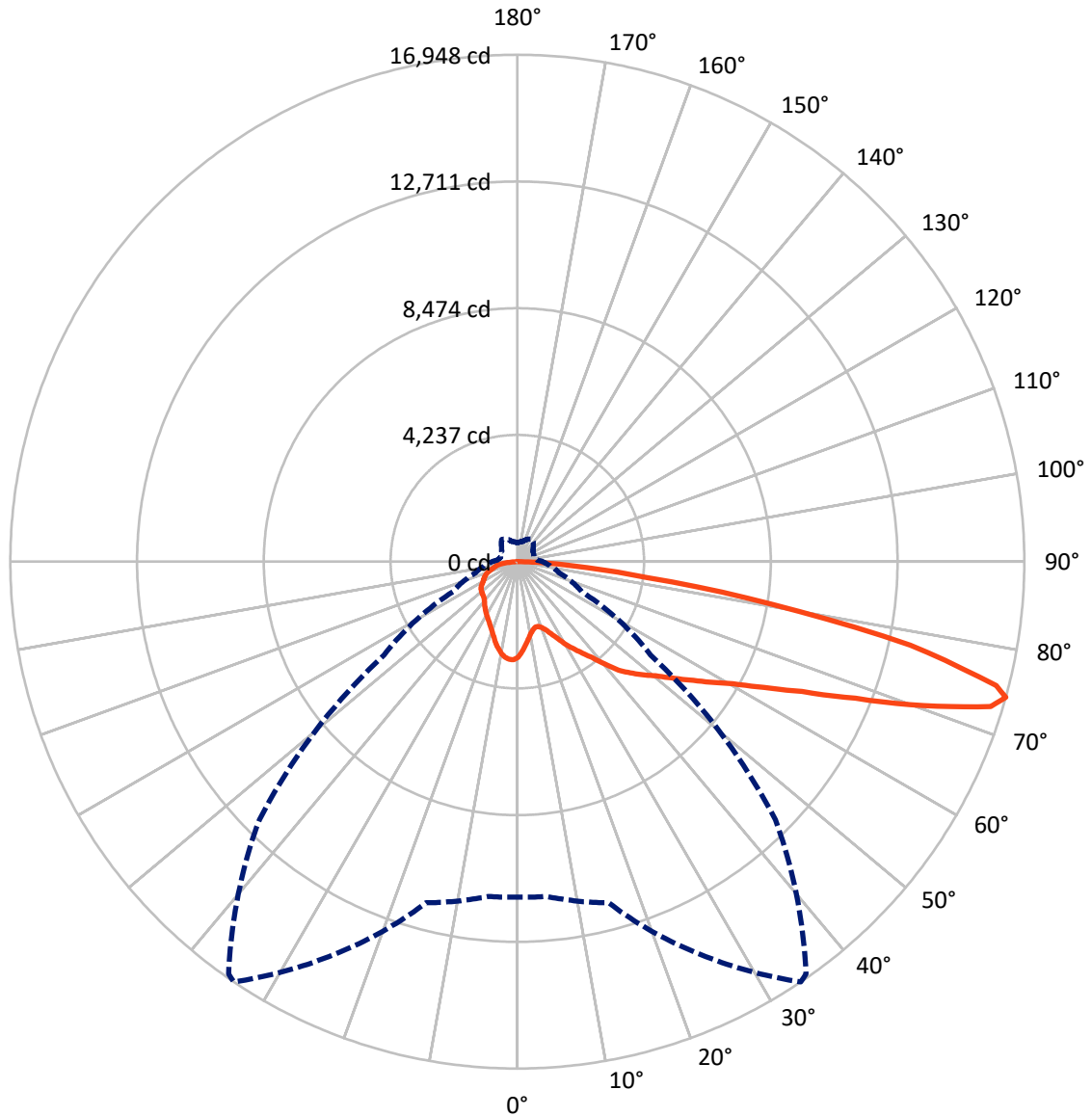
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P458916
CATALOG NUMBER: GALN-SA4B-735-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P458916

CATALOG NUMBER: GALN-SA4B-735-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4452.6	0.0	4452.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	16470.4	0.0	16470.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	20923.0	0.0	20923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	1.4
10°-20°	795.3	3.8
20°-30°	1311.3	6.3
30°-40°	1964.1	9.4
40°-50°	2855.3	13.6
50°-60°	3988.2	19.1
60°-70°	4993.0	23.9
70°-80°	4128.8	19.7
80°-90°	596.6	2.9
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°	20923.0	100.0
0°-180°	20923.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458916

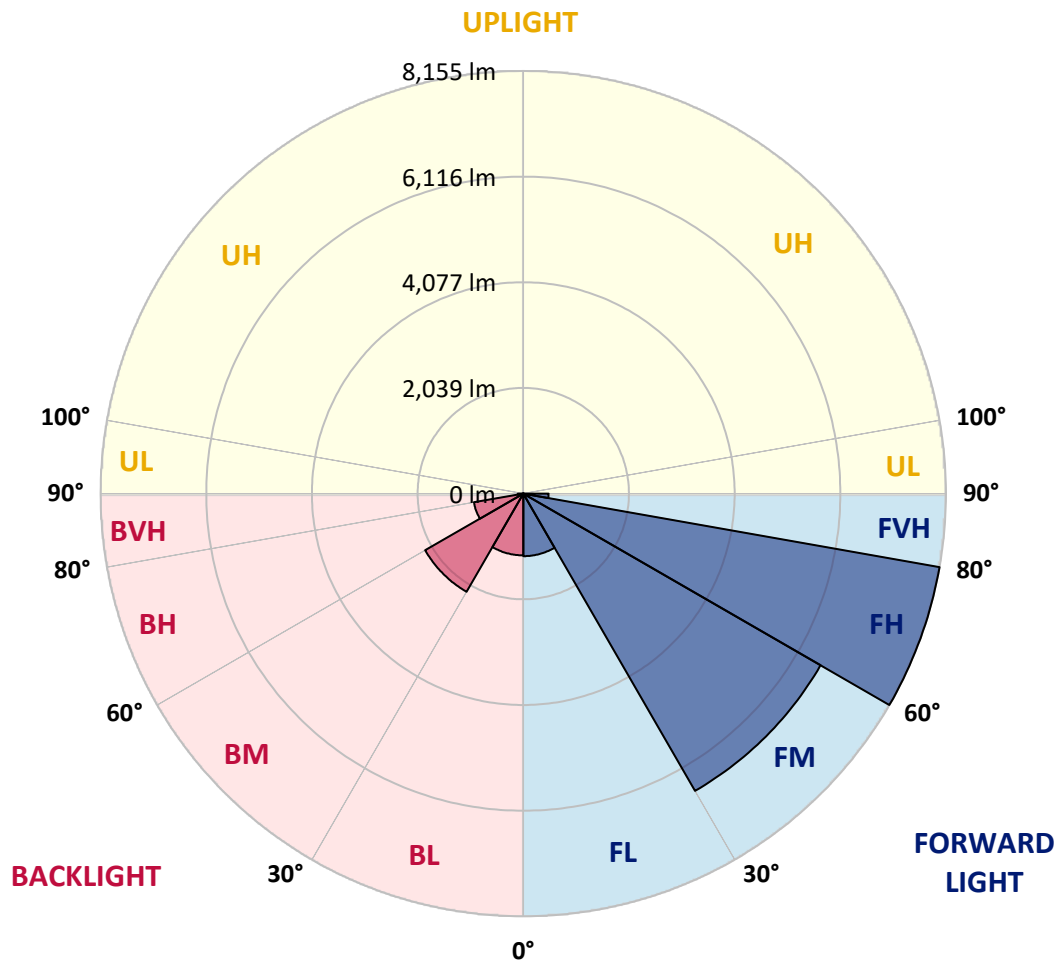
CATALOG NUMBER: GALN-SA4B-735-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1206.1	5.8			
FM	(30°-60°)	6620.9	31.6			
FH	(60°-80°)	8154.7	39.0			G4/12000
FVH	(80°-90°)	488.7	2.3			G3/500
BL	(0°-30°)	1191.0	5.7	B3/2500		
BM	(30°-60°)	2186.7	10.5	B2/2500		
BH	(60°-80°)	967.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	107.8	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 IV Short





REPORT NUMBER: P458916
 CATALOG NUMBER: GALN-SA4B-735-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5
2.5°	2952.3	2967.3	2975.5	3004.4	3011.4	3020.7	3045.0	3077.5	3119.2	3156.3	3188.7
5°	2706.5	2729.7	2743.6	2769.1	2819.0	2823.6	2888.5	2962.7	3047.3	3126.1	3191.1
7.5°	2473.6	2499.1	2510.6	2557.0	2623.1	2633.5	2728.6	2845.6	2987.0	3106.4	3206.1
10°	2298.5	2311.3	2336.8	2371.6	2450.4	2457.3	2581.4	2737.8	2921.0	3097.2	3231.6
12.5°	2203.5	2210.4	2216.2	2253.3	2331.0	2341.4	2471.2	2648.6	2868.8	3104.1	3273.3
15°	2217.4	2219.7	2194.2	2201.2	2263.8	2278.8	2407.5	2589.5	2836.4	3121.5	3335.9
17.5°	2334.5	2326.3	2263.8	2231.3	2275.3	2282.3	2394.7	2566.3	2821.3	3154.0	3400.9
20°	2518.8	2507.2	2399.4	2327.5	2353.0	2358.8	2436.5	2583.7	2836.4	3207.3	3501.7
22.5°	2748.3	2743.6	2580.2	2493.3	2492.1	2492.1	2532.7	2646.3	2881.6	3280.3	3607.2
25°	3069.3	3045.0	2831.7	2719.3	2688.0	2685.7	2681.0	2749.4	2939.5	3358.0	3732.4
27.5°	3398.5	3356.8	3166.7	2994.0	2926.8	2918.7	2888.5	2895.5	3013.7	3446.1	3874.9
30°	3694.1	3667.4	3488.9	3297.7	3217.7	3199.2	3115.7	3077.5	3137.7	3604.9	4102.1
32.5°	3920.1	3903.9	3764.8	3590.9	3472.7	3469.2	3347.5	3316.2	3331.3	3797.3	4361.8
35°	4103.3	4109.1	4038.4	3887.7	3752.1	3732.4	3651.2	3611.8	3567.8	4075.5	4688.6
37.5°	4353.6	4366.4	4361.8	4231.9	4066.2	4070.8	4052.3	3987.4	3870.3	4386.1	5051.4
40°	4629.5	4638.8	4637.6	4587.8	4500.9	4505.5	4498.5	4424.4	4249.3	4781.4	5454.8
42.5°	5010.9	4966.8	4852.1	4901.9	4952.9	4974.9	5022.5	4951.8	4711.8	5203.3	5833.8
45°	5437.4	5354.0	5094.3	5117.5	5306.4	5348.2	5610.1	5512.8	5213.7	5687.8	6280.1
47.5°	5706.3	5624.0	5405.0	5400.3	5650.7	5691.3	6154.9	6119.0	5670.4	6210.6	6824.9
50°	5946.3	5934.7	5687.8	5746.9	5991.5	6051.8	6748.4	6714.8	6125.9	6827.2	7418.4
52.5°	6302.1	6208.2	6011.2	6132.9	6456.3	6535.1	7337.2	7238.7	6544.4	7372.0	7994.4
55°	6462.1	6440.1	6428.5	6533.9	6977.9	7034.7	7909.8	7683.8	6901.4	7833.3	8432.6
57.5°	6889.8	6849.2	6964.0	7035.8	7592.2	7679.2	8507.9	8148.6	7214.3	8199.6	8645.9
60°	7443.9	7421.8	7527.3	7657.1	8278.4	8410.6	9189.5	8545.0	7465.9	8383.9	8528.8
62.5°	8271.5	8269.1	8249.4	8527.6	9250.9	9372.6	9971.9	8931.0	7505.3	8246.0	7923.7
65°	9458.4	9416.7	9245.1	9548.8	10461.0	10603.6	10786.7	9146.6	7267.7	7537.7	6671.9
67.5°	10699.8	10697.5	10558.4	10952.5	12198.6	12345.8	11805.6	9099.1	6608.1	6106.2	4738.5
70°	11729.1	11679.3	11856.6	12906.8	14418.3	14588.7	12697.0	8539.2	5263.6	4032.6	2815.5
72.5°	11976.0	11978.3	12346.9	14413.6	16549.9	16576.5	13018.1	6921.1	3522.6	2224.3	1408.3
74°	11215.6	11235.3	11806.8	14489.0	16947.5	16826.9	12197.4	5439.7	2382.0	1452.4	1015.4
75°	10237.3	10113.3	10939.8	13987.1	16534.8	16405.0	11236.5	4365.2	1817.5	1160.3	889.0
77.5°	5473.4	5599.7	6874.7	10437.9	13433.0	13283.5	7618.9	2093.4	981.8	807.9	639.8
80°	1948.5	2149.0	3020.7	5461.8	8612.2	8658.6	3636.2	959.7	690.8	595.8	452.1
82.5°	795.2	817.2	1297.1	2423.7	4373.4	4415.1	1484.8	570.3	493.8	410.3	270.1
85°	310.6	319.9	573.8	1089.6	1866.2	1987.9	513.5	301.4	303.7	235.3	137.9
87.5°	104.3	118.2	235.3	362.8	634.0	621.3	149.5	89.3	109.0	102.0	42.9
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: P458916
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5	3194.5
2.5°	3205.0	3227.0	3242.1	3258.3	3273.3	3278.0	3274.5	3284.9	3286.1	3287.3	3288.4
5°	3223.5	3253.6	3282.6	3298.8	3305.8	3300.0	3280.3	3269.9	3260.6	3253.6	3256.0
7.5°	3249.0	3291.9	3318.6	3325.5	3307.0	3280.3	3231.6	3193.4	3169.0	3152.8	3151.6
10°	3288.4	3330.1	3352.2	3332.5	3281.5	3216.6	3140.0	3068.2	3013.7	2997.5	2996.3
12.5°	3338.3	3385.8	3384.6	3326.7	3237.4	3121.5	2997.5	2914.0	2839.8	2802.7	2817.8
15°	3403.2	3439.1	3405.5	3301.2	3159.8	3001.0	2848.0	2734.4	2650.9	2611.5	2613.8
17.5°	3478.5	3509.8	3420.6	3256.0	3050.8	2846.8	2669.4	2561.7	2495.6	2466.6	2464.3
20°	3572.4	3581.7	3420.6	3177.1	2910.5	2667.1	2497.9	2422.6	2385.5	2370.4	2375.0
22.5°	3673.2	3654.7	3402.0	3065.9	2726.2	2479.4	2365.8	2332.1	2313.6	2311.3	2313.6
25°	3786.8	3734.7	3363.8	2915.2	2533.8	2317.1	2251.0	2256.8	2260.3	2260.3	2268.4
27.5°	3925.9	3821.6	3300.0	2725.1	2309.0	2166.4	2147.8	2188.4	2207.0	2210.4	2216.2
30°	4109.1	3916.7	3194.5	2487.5	2117.7	2030.8	2063.2	2117.7	2138.6	2151.3	2149.0
32.5°	4327.0	4021.0	3052.0	2249.8	1963.5	1935.7	1975.1	2030.8	2054.0	2060.9	2051.6
35°	4583.2	4139.2	2864.2	2027.3	1829.1	1845.3	1891.7	1909.1	1929.9	1929.9	1934.6
37.5°	4859.0	4234.3	2634.7	1823.3	1724.8	1783.9	1817.5	1801.3	1792.0	1780.4	1786.2
40°	5139.5	4305.0	2336.8	1621.6	1620.4	1720.1	1729.4	1683.0	1645.9	1634.4	1628.6
42.5°	5384.1	4349.0	2067.9	1465.1	1521.9	1657.5	1664.5	1590.3	1531.2	1496.4	1484.8
45°	5672.7	4400.0	1804.7	1335.3	1430.4	1607.7	1625.1	1525.4	1438.5	1365.4	1346.9
47.5°	6068.0	4515.9	1597.3	1234.5	1364.3	1576.4	1600.7	1472.1	1357.3	1262.3	1247.2
50°	6514.2	4674.7	1436.1	1166.1	1313.3	1548.6	1578.7	1417.6	1282.0	1176.5	1164.9
52.5°	6923.4	4760.5	1297.1	1104.6	1263.4	1497.6	1549.7	1378.2	1207.8	1090.7	1080.3
55°	7147.1	4621.4	1160.3	1044.4	1195.1	1431.5	1509.2	1323.7	1135.9	1045.5	1030.5
57.5°	7177.3	4333.9	1036.3	979.5	1123.2	1350.4	1433.8	1257.6	1089.6	1014.2	1001.5
60°	6944.3	3905.1	940.0	926.1	1050.2	1258.8	1349.2	1199.7	1042.0	979.5	966.7
62.5°	6364.7	3439.1	872.8	877.5	976.0	1162.6	1286.6	1144.0	996.8	941.2	929.6
65°	5367.9	2838.7	807.9	827.6	909.9	1087.3	1229.8	1097.7	951.6	912.2	901.8
67.5°	3728.9	2049.3	754.6	775.4	847.3	1010.8	1163.8	1047.8	900.6	879.8	863.5
70°	2064.4	1261.1	692.0	716.3	782.4	925.0	1089.6	972.5	826.5	817.2	794.0
72.5°	1084.9	803.3	621.3	647.9	694.3	814.9	976.0	890.2	753.4	714.0	683.9
74°	847.3	658.4	573.8	601.6	632.9	749.9	908.7	831.1	701.3	654.9	631.7
75°	738.4	586.5	533.2	569.1	596.9	705.9	856.6	789.4	672.3	628.2	607.4
77.5°	521.6	439.3	435.8	478.7	493.8	619.0	772.0	718.7	599.3	552.9	533.2
80°	366.3	329.2	345.4	372.1	392.9	547.1	716.3	621.3	491.5	437.0	430.0
82.5°	238.8	215.6	246.9	271.2	278.2	403.4	578.4	471.8	358.2	290.9	270.1
85°	110.1	107.8	141.4	137.9	136.8	197.1	343.1	275.9	206.3	154.2	144.9
87.5°	27.8	26.7	34.8	29.0	34.8	30.1	31.3	8.1	1.2	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)