

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: P456965

Luminaire Tested: **GALN-SA8B-730-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456965
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-SA8B-730-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42084 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

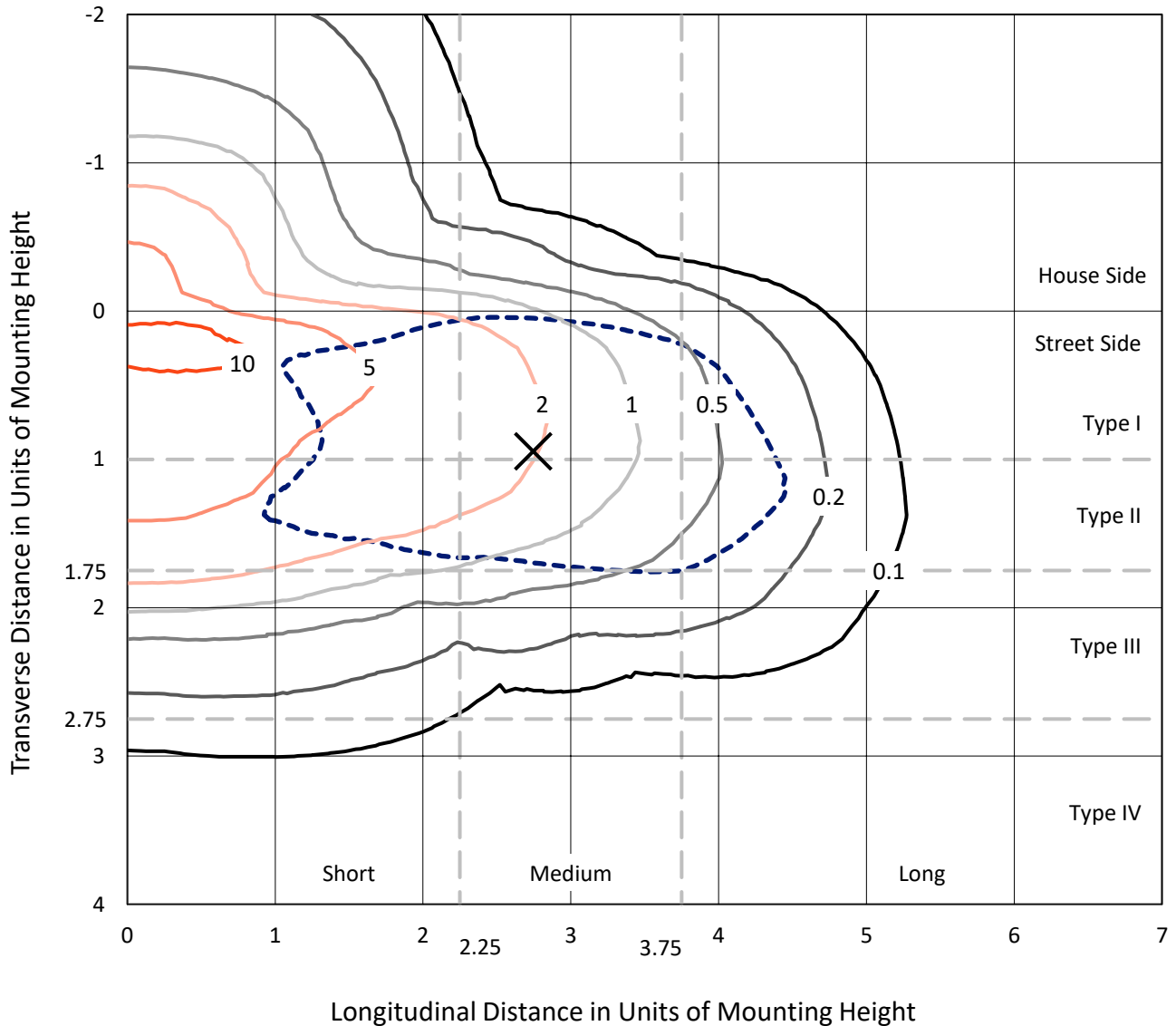
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456965
 CATALOG NUMBER: GALN-SA8B-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

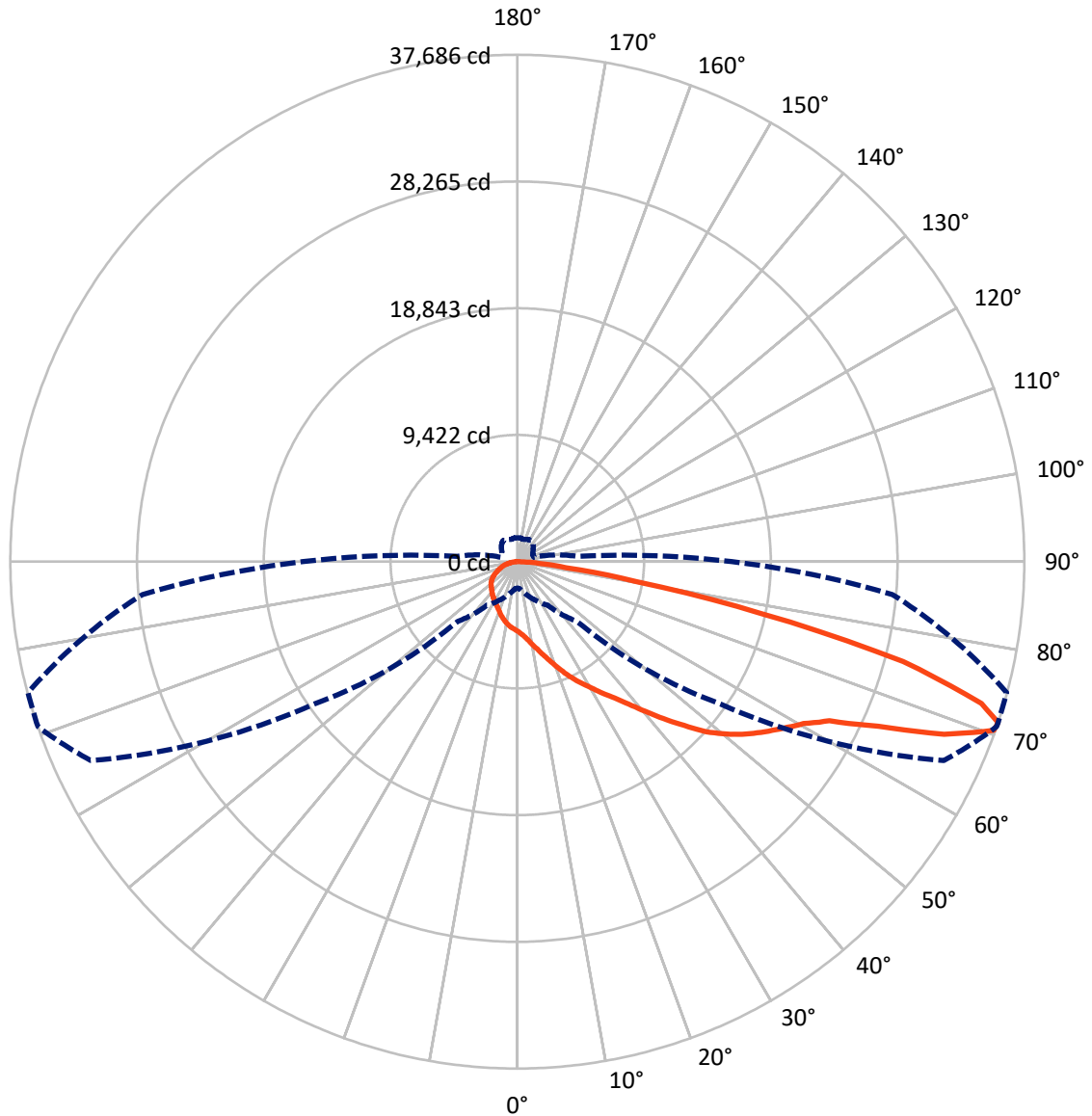
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P456965
CATALOG NUMBER: GALN-SA8B-730-U-T2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P456965

CATALOG NUMBER: GALN-SA8B-730-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7568.7	0.0	7568.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	34515.3	0.0	34515.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	42084.0	0.0	42084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.6	1.2
10°-20°	1684.9	4.0
20°-30°	2944.5	7.0
30°-40°	4379.5	10.4
40°-50°	6452.7	15.3
50°-60°	9033.9	21.5
60°-70°	10104.0	24.0
70°-80°	6172.0	14.7
80°-90°	794.0	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°	42084.0	100.0
0°-180°	42084.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456965

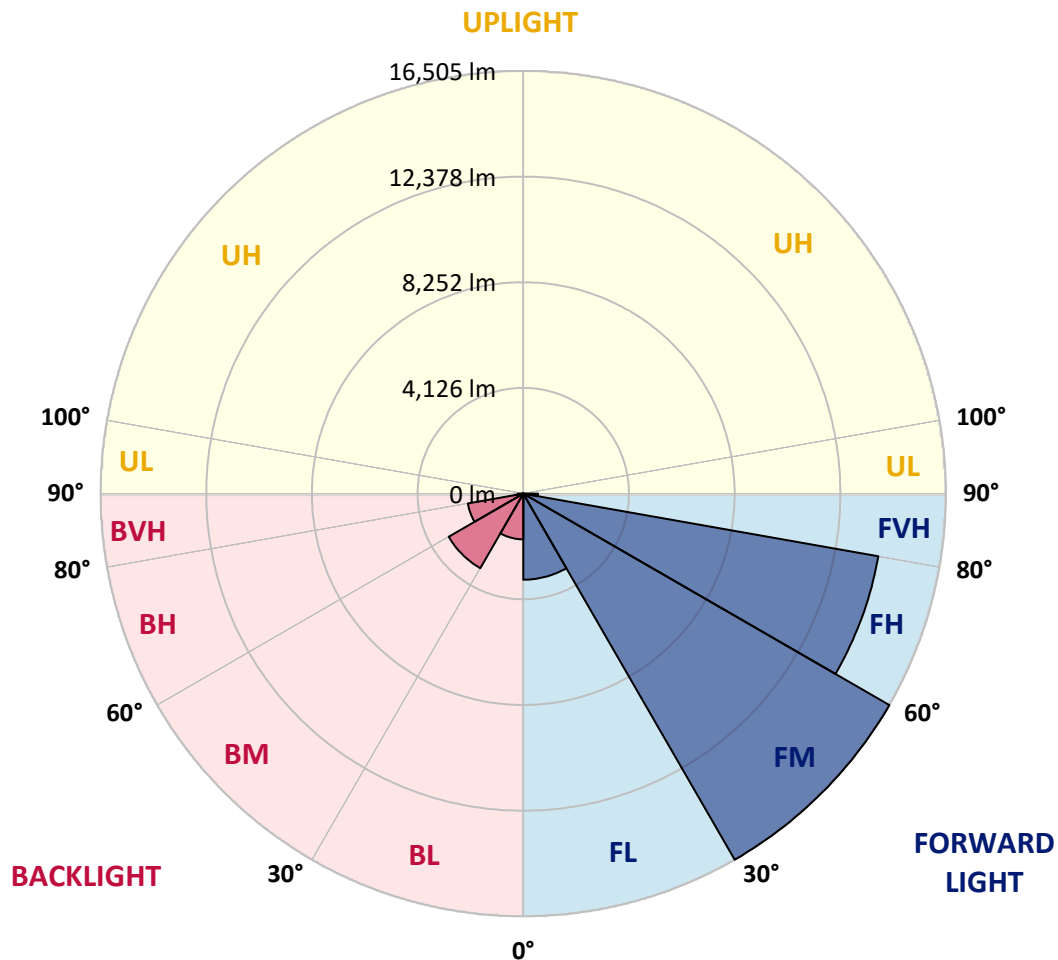
CATALOG NUMBER: GALN-SA8B-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3362.5	8.0			
FM	(30°-60°)	16504.5	39.2			
FH	(60°-80°)	14077.0	33.4			G5
FVH	(80°-90°)	571.3	1.4			G4/750
BL	(0°-30°)	1785.4	4.2	B3/2500		
BM	(30°-60°)	3361.5	8.0	B3/5000		
BH	(60°-80°)	2199.0	5.2	B3/2500		G3/2500
BVH	(80°-90°)	222.7	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-G5

Type II Medium





REPORT NUMBER: P456965

CATALOG NUMBER: GALN-SA8B-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0
2.5°	5734.0	5706.2	5708.5	5669.2	5618.3	5562.8	5484.2	5414.8	5359.3	5326.9	5232.1
5°	6353.9	6326.1	6291.4	6205.8	6168.8	6032.4	5858.9	5701.6	5581.3	5514.2	5324.6
7.5°	6855.8	6848.9	6839.6	6791.0	6696.2	6506.5	6358.5	6085.6	5907.5	5780.2	5456.4
10°	7165.7	7177.3	7184.3	7193.5	7154.2	7054.7	6851.2	6506.5	6279.9	6117.9	5627.6
12.5°	7323.0	7334.6	7373.9	7459.5	7512.7	7501.1	7334.6	6996.9	6684.6	6471.8	5810.3
15°	7420.2	7438.7	7508.1	7621.4	7799.5	7912.9	7831.9	7519.6	7177.3	6925.2	6027.7
17.5°	7526.6	7547.4	7623.7	7785.6	8019.3	8264.4	8352.3	8084.0	7711.6	7410.9	6270.6
20°	7586.7	7614.5	7723.2	7936.0	8208.9	8565.1	8856.6	8715.5	8308.4	7975.3	6550.5
22.5°	7683.9	7707.0	7799.5	8026.2	8352.3	8798.7	9360.8	9330.7	8972.2	8542.0	6858.1
25°	7947.5	7984.6	8030.8	8167.3	8481.9	9037.0	9779.5	9987.6	9615.2	9134.1	7140.3
27.5°	8444.8	8474.9	8472.6	8491.1	8669.2	9242.8	10142.6	10637.6	10253.6	9733.2	7413.2
30°	9011.5	9023.1	9032.4	8990.7	9030.0	9453.3	10475.7	11280.6	10896.7	10348.5	7651.5
32.5°	9700.8	9723.9	9645.3	9538.9	9506.5	9765.6	10750.9	11923.6	11657.6	10973.0	7887.4
35°	10515.0	10575.1	10415.5	10228.2	10096.3	10214.3	11121.0	12580.5	12437.1	11771.0	8199.7
37.5°	11444.8	11518.9	11370.8	11003.1	10815.7	10848.1	11604.4	13392.4	13422.5	12680.0	8664.6
40°	12205.8	12303.0	12307.6	11787.2	11502.7	11539.7	12217.4	14266.7	14611.4	13804.1	9212.8
42.5°	12707.7	12802.6	12902.0	12596.7	12298.3	12508.8	12932.1	15215.1	15948.3	15168.8	9978.4
45°	13258.2	13343.8	13399.3	13260.6	13094.0	13639.9	13794.9	16223.5	17373.1	16693.1	10815.7
47.5°	13896.6	13991.5	14044.7	13912.8	13850.4	14632.2	14724.7	17164.9	18895.1	18173.4	11740.9
50°	14747.8	14819.5	14791.8	14708.5	14694.6	15393.2	15617.5	18046.2	20151.1	19767.1	12700.8
52.5°	15807.2	15892.8	15922.9	15804.9	15751.7	15936.7	16336.9	18848.8	21293.7	21136.4	13725.5
55°	16447.9	16584.4	17042.4	17227.4	17354.6	16639.9	17111.7	19734.7	22318.4	22579.7	14826.5
57.5°	15626.8	15802.6	16827.2	17752.5	18948.3	18397.8	18210.4	20659.9	23343.0	23979.1	16144.9
60°	13623.7	13663.0	14983.8	16688.5	19094.0	20657.6	20502.6	22131.0	24453.3	25390.1	17882.0
62.5°	9451.0	9534.3	11095.6	13815.7	17294.5	21471.8	24402.4	24670.7	26044.6	27501.8	20428.6
65°	4873.5	4764.8	6187.3	8683.1	13038.5	19538.1	27562.0	29340.7	29495.7	30804.8	24013.8
67.5°	3000.0	3048.6	3714.7	5070.1	7709.3	14199.6	27231.2	35046.9	34230.4	34859.6	27342.2
70°	2252.9	2313.0	2771.0	3469.5	4700.1	8118.7	21899.7	36430.1	37570.4	37408.5	28355.4
71°	1959.1	2021.6	2498.1	3157.3	3948.3	6266.0	18451.0	34982.2	37686.1	37658.3	27973.7
72.5°	1670.0	1709.3	2081.7	2673.9	3328.4	4392.4	13861.9	31373.8	36078.5	37001.4	26611.3
75°	1311.5	1341.6	1508.1	2040.1	2620.7	2697.0	7438.7	23521.1	29632.1	31390.0	22154.1
77.5°	1068.6	1089.4	1175.0	1515.0	2021.6	1910.6	3902.1	15309.9	18564.3	20333.8	13050.1
80°	848.9	872.0	922.9	1027.0	1515.0	1362.4	1862.0	7757.9	8967.6	8949.1	5208.9
82.5°	659.2	666.2	726.3	754.0	1036.2	966.8	1008.5	3284.5	3638.4	3758.7	1880.5
85°	416.3	437.2	643.0	578.3	619.9	566.7	497.3	1304.5	1607.6	1584.4	751.7
87.5°	127.2	134.2	217.4	245.2	275.2	247.5	182.7	384.0	469.5	508.9	187.4
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: P456965
 CATALOG NUMBER: GALN-SA8B-730-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0	5165.0
2.5°	5195.1	5169.6	5079.4	5005.4	4936.0	4859.7	4794.9	4776.4	4760.2	4753.3	4750.9
5°	5243.6	5167.3	4989.2	4843.5	4727.8	4621.4	4554.3	4524.3	4494.2	4494.2	4503.5
7.5°	5313.0	5174.2	4899.0	4681.6	4535.8	4436.4	4387.8	4383.2	4390.1	4397.1	4399.4
10°	5389.3	5169.6	4767.1	4496.5	4367.0	4320.7	4323.0	4362.4	4399.4	4427.1	4431.8
12.5°	5463.4	5141.9	4612.2	4323.0	4239.8	4249.0	4313.8	4401.7	4473.4	4512.7	4515.0
15°	5546.6	5097.9	4424.8	4158.8	4131.1	4202.8	4323.0	4457.2	4565.9	4630.7	4637.6
17.5°	5616.0	5023.9	4228.2	3999.2	4033.9	4165.8	4332.3	4505.8	4637.6	4718.6	4732.4
20°	5694.7	4929.1	4024.7	3846.6	3946.0	4124.1	4313.8	4501.1	4637.6	4716.3	4734.8
22.5°	5757.1	4794.9	3830.4	3721.7	3867.4	4073.2	4251.3	4401.7	4512.7	4554.3	4582.1
25°	5782.6	4626.0	3647.6	3619.9	3804.9	3990.0	4110.2	4195.8	4230.5	4225.9	4237.5
27.5°	5768.7	4431.8	3490.4	3538.9	3726.3	3860.4	3920.6	3913.6	3851.2	3793.4	3821.1
30°	5710.9	4200.5	3358.5	3455.7	3624.5	3698.5	3689.3	3599.1	3481.1	3372.4	3379.3
32.5°	5606.8	3950.6	3235.9	3360.8	3481.1	3513.5	3451.0	3333.1	3164.2	3023.1	3002.3
35°	5518.9	3712.4	3127.2	3252.1	3337.7	3321.5	3261.4	3108.7	2956.0	2831.1	2810.3
37.5°	5505.0	3508.9	3023.1	3129.5	3178.1	3155.0	3080.9	2951.4	2895.9	2801.1	2789.5
40°	5579.0	3365.4	2916.7	3000.0	3023.1	3004.6	2923.7	2849.6	2900.5	2877.4	2877.4
42.5°	5780.2	3289.1	2821.9	2870.5	2889.0	2902.8	2845.0	2782.6	2845.0	2738.6	2703.9
45°	6099.4	3291.4	2736.3	2743.2	2798.8	2847.3	2808.0	2715.5	2683.1	2470.3	2428.7
47.5°	6569.0	3370.1	2666.9	2623.0	2722.4	2803.4	2747.9	2613.7	2470.3	2329.2	2303.8
50°	7117.2	3511.2	2604.5	2498.1	2620.7	2747.9	2706.2	2549.0	2400.9	2315.3	2299.1
52.5°	7725.5	3689.3	2528.1	2359.3	2495.8	2722.4	2715.5	2539.7	2336.2	2278.3	2264.4
55°	8477.2	3865.1	2433.3	2197.4	2384.7	2701.6	2690.0	2463.4	2322.3	2280.6	2276.0
57.5°	9351.6	4119.5	2296.8	2033.1	2257.5	2616.0	2590.6	2417.1	2276.0	2245.9	2243.6
60°	10760.2	4515.0	2102.5	1882.8	2128.0	2465.7	2498.1	2338.5	2202.0	2195.1	2192.7
62.5°	12612.9	5070.1	1901.3	1727.8	1977.6	2271.4	2363.9	2232.1	2123.4	2158.1	2162.7
65°	15171.1	5537.4	1693.1	1596.0	1811.1	2084.0	2236.7	2132.6	2035.5	2102.5	2102.5
67.5°	16838.8	5546.6	1503.5	1459.5	1642.2	1926.7	2102.5	2014.6	1922.1	2035.5	2040.1
70°	16491.9	4859.7	1346.2	1316.1	1478.0	1757.9	1954.5	1885.1	1778.7	1880.5	1843.5
71°	15932.1	4478.0	1283.7	1260.6	1413.3	1676.9	1885.1	1827.3	1720.9	1788.0	1767.1
72.5°	15039.3	3888.2	1182.0	1186.6	1316.1	1575.2	1788.0	1727.8	1621.4	1658.4	1651.5
75°	12712.4	3395.5	1010.8	1031.6	1131.1	1401.7	1593.7	1547.4	1438.7	1438.7	1431.8
77.5°	7947.5	2373.2	839.6	851.2	959.9	1200.5	1369.3	1330.0	1225.9	1191.2	1182.0
80°	2965.3	1225.9	656.9	670.8	737.9	946.0	1133.4	1096.4	990.0	950.7	913.6
82.5°	1121.8	615.3	483.4	471.9	543.6	721.7	888.2	844.3	761.0	666.2	638.4
85°	423.3	305.3	296.1	286.8	319.2	427.9	550.5	541.2	453.4	386.3	379.3
87.5°	111.0	99.5	115.7	85.6	90.2	81.0	83.3	34.7	16.2	6.9	4.6
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)