

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: P454185

Luminaire Tested: **GALN-SA5B-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25735 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

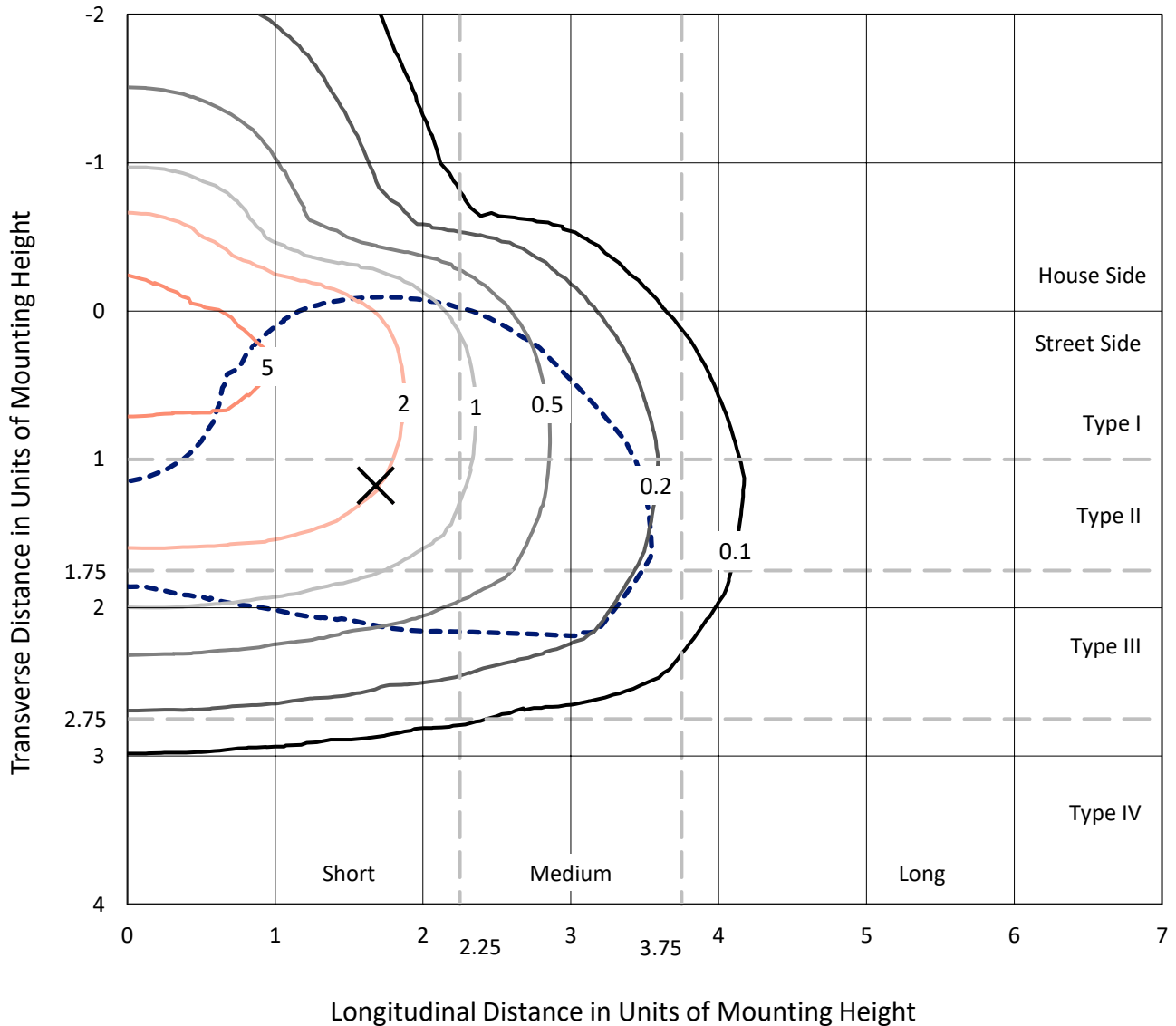
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454185
 CATALOG NUMBER: GALN-SA5B-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

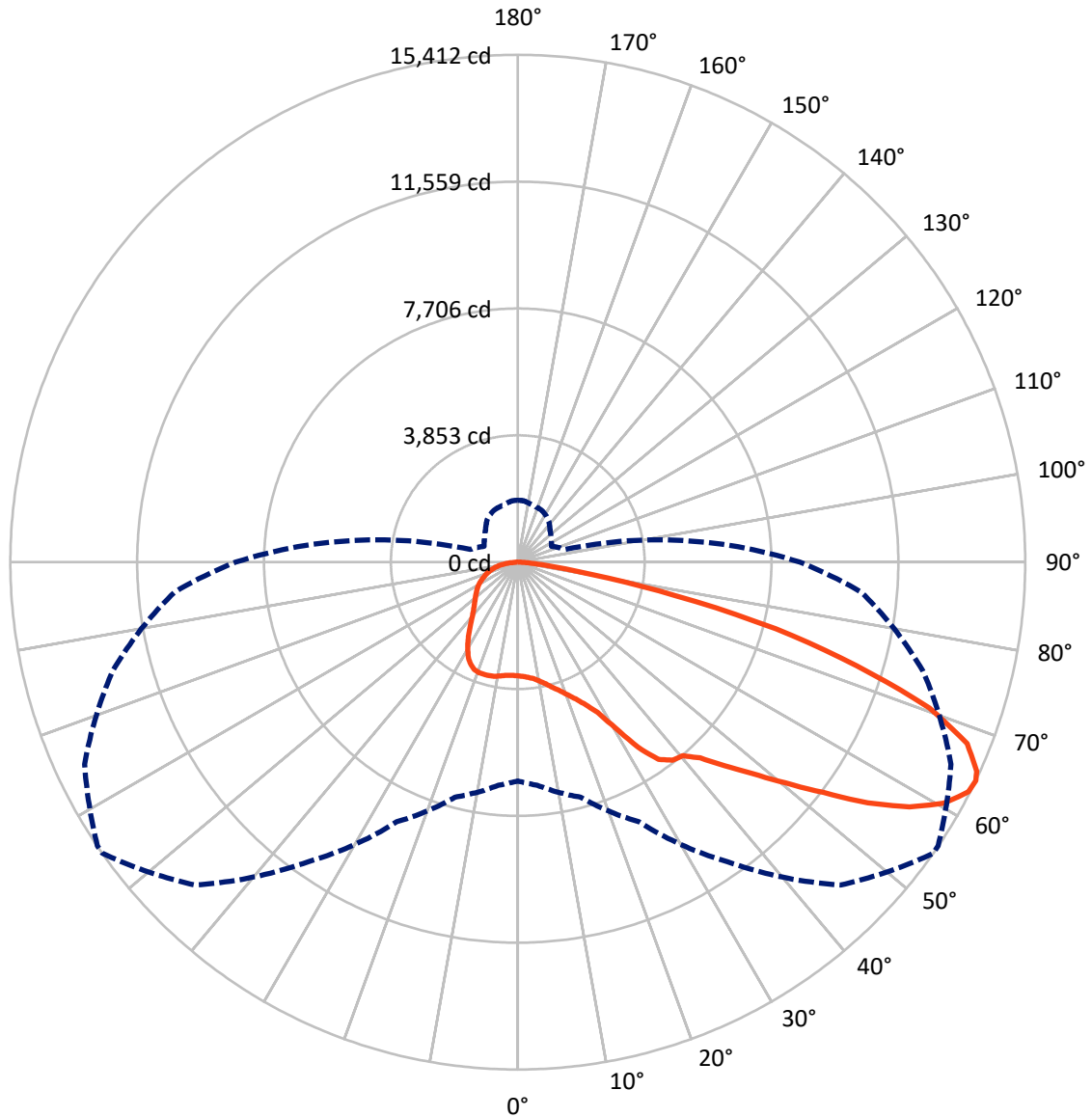
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type III - Short - N/A

REPORT NUMBER: P454185
CATALOG NUMBER: GALN-SA5B-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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CATALOG NUMBER: GALN-SA5B-730-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6251.5	0.0	6251.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	19483.5	0.0	19483.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	25735.0	0.0	25735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.9	1.3
10°-20°	1059.8	4.1
20°-30°	1886.7	7.3
30°-40°	2902.9	11.3
40°-50°	4115.0	16.0
50°-60°	5956.4	23.1
60°-70°	6164.3	24.0
70°-80°	2886.7	11.2
80°-90°	427.3	1.7
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°	25735.0	100.0
0°-180°	25735.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454185

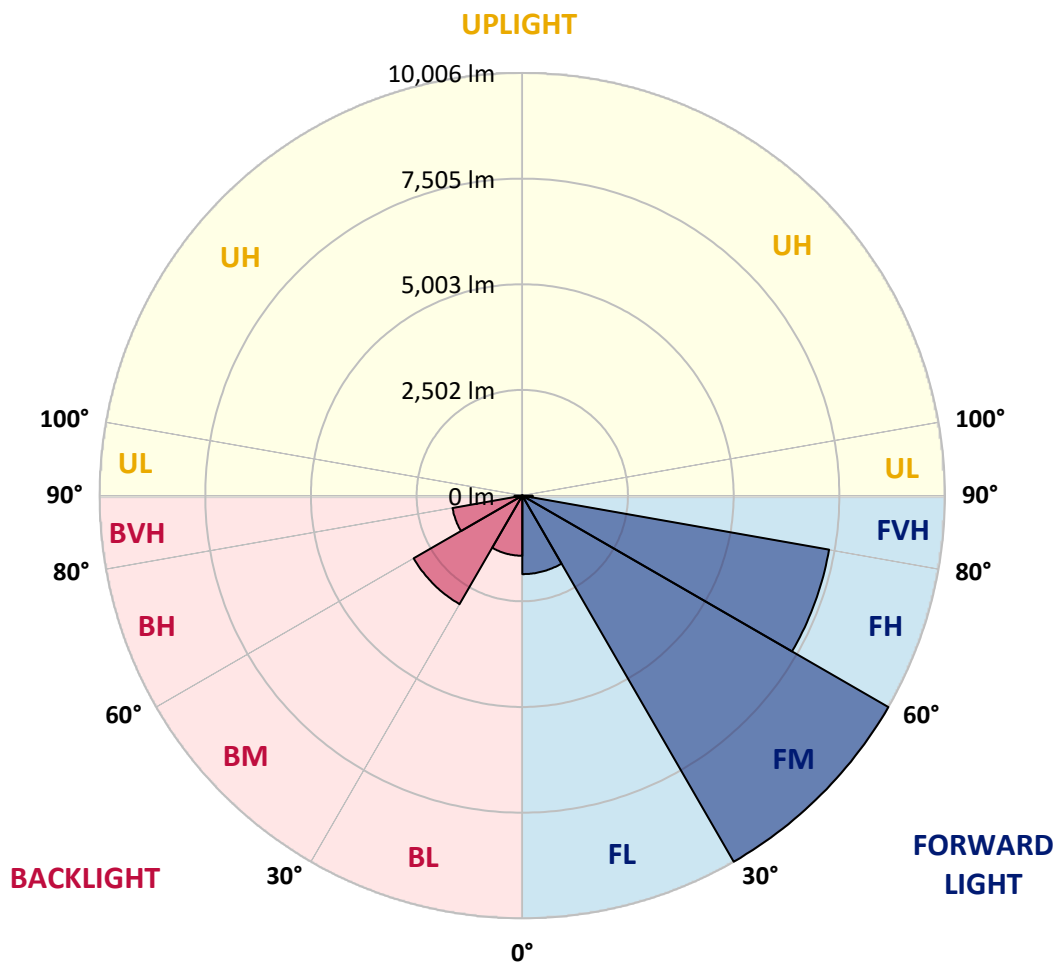
CATALOG NUMBER: GALN-SA5B-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1858.5	7.2			
FM	(30°-60°)	10006.5	38.9			
FH	(60°-80°)	7373.8	28.7			G3/7500
FVH	(80°-90°)	244.7	1.0			G3/500
BL	(0°-30°)	1423.9	5.5	B3/2500		
BM	(30°-60°)	2967.9	11.5	B3/5000		
BH	(60°-80°)	1677.2	6.5	B3/2500		G3/2500
BVH	(80°-90°)	182.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





REPORT NUMBER: P454185

CATALOG NUMBER: GALN-SA5B-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9
2.5°	3491.6	3490.2	3494.5	3490.2	3493.0	3483.0	3478.7	3481.6	3477.2	3470.1	3457.2
5°	3534.6	3533.2	3534.6	3528.9	3531.8	3526.0	3516.0	3518.8	3511.7	3495.9	3477.2
7.5°	3607.8	3602.0	3602.0	3600.6	3594.9	3586.3	3579.1	3576.2	3569.1	3549.0	3520.3
10°	3702.5	3702.5	3703.9	3692.4	3699.6	3683.8	3676.6	3675.2	3650.8	3625.0	3584.8
12.5°	3827.3	3834.4	3830.1	3824.4	3821.5	3815.8	3791.4	3797.1	3769.9	3725.4	3676.6
15°	3982.2	3993.7	3986.5	3983.6	3976.5	3954.9	3944.9	3940.6	3904.7	3840.2	3775.6
17.5°	4187.3	4173.0	4167.2	4160.1	4129.9	4114.2	4097.0	4094.1	4062.5	3986.5	3886.1
20°	4366.6	4386.7	4375.2	4368.1	4338.0	4307.8	4294.9	4290.6	4263.4	4180.2	4019.5
22.5°	4580.4	4584.7	4589.0	4571.8	4557.4	4534.5	4511.5	4504.4	4494.3	4408.2	4211.7
25°	4808.5	4825.7	4811.3	4794.1	4776.9	4775.5	4797.0	4794.1	4789.8	4706.6	4467.1
27.5°	5180.0	5195.8	5200.1	5181.4	5115.5	5121.2	5170.0	5185.7	5251.7	5114.0	4795.6
30°	5389.4	5405.2	5441.1	5511.4	5616.1	5707.9	5825.5	5861.4	5924.5	5664.9	5185.7
32.5°	5518.6	5524.3	5588.8	5719.4	6033.5	6376.4	6696.3	6709.2	6749.4	6385.0	5542.9
35°	5722.3	5726.6	5778.2	5921.6	6290.3	6861.3	7356.2	7371.9	7338.9	6608.8	5709.3
37.5°	5973.3	5984.8	6017.8	6136.8	6577.2	7267.2	7630.1	7618.7	7326.0	6786.7	6003.4
40°	6339.1	6339.1	6300.4	6461.0	6879.9	7499.6	7726.3	7706.2	7628.7	7301.6	6451.0
42.5°	6661.9	6656.1	6747.9	6856.9	7258.6	7858.2	8129.4	8162.3	8290.0	7948.6	6960.2
45°	7082.2	7108.0	7159.6	7357.6	7902.7	8470.8	8820.8	8852.3	9033.1	8710.3	7555.6
47.5°	7506.8	7515.4	7677.5	7941.4	8700.3	9301.3	9588.3	9639.9	9804.9	9601.2	8196.8
50°	7808.0	7889.8	8149.4	8565.4	9522.3	10314.1	10537.9	10599.6	10890.8	10570.9	8944.2
52.5°	8126.5	8206.8	8523.8	9157.9	10466.2	11349.8	11625.3	11666.9	11969.5	11552.1	9708.7
55°	8399.0	8473.6	8833.7	9682.9	11217.9	12407.1	12906.3	12857.5	13002.4	12308.1	10298.3
57.5°	8443.5	8503.8	8957.1	10018.6	11783.0	13313.7	14029.5	14058.2	13890.3	12873.3	10784.6
60°	8099.2	8222.6	8743.3	9982.7	12037.0	13944.9	14867.2	14887.3	14411.1	13163.0	10978.3
62.5°	7489.6	7476.7	8106.4	9406.1	11681.2	14088.3	15360.7	15339.2	14614.8	13023.9	10790.4
64°	6647.5	6802.4	7390.6	8697.4	11107.4	13867.4	15412.4	15400.9	14517.2	12734.1	10470.5
65°	6134.0	6125.3	6706.3	8117.9	10536.5	13534.6	15320.5	15304.8	14313.5	12474.5	10222.3
67.5°	4428.3	4448.4	5022.2	6264.5	8565.4	12233.5	14722.4	14663.5	13510.2	11613.8	9278.4
70°	2682.5	2694.0	3144.4	4155.8	6148.3	9889.5	13270.6	13273.5	12280.8	10328.5	7897.0
72.5°	1413.0	1443.1	1623.9	2359.8	3734.0	6938.7	10766.0	11021.3	10543.6	8815.1	6238.7
75°	786.1	790.4	918.1	1163.4	1905.0	3883.2	8092.1	8165.2	8347.4	7095.1	4613.4
77.5°	599.6	608.2	648.4	751.7	1037.1	1800.3	4897.4	5264.6	5882.9	5002.1	2632.3
80°	486.3	494.9	529.3	591.0	690.0	853.5	2275.1	2473.1	3148.7	2220.6	1027.1
82.5°	378.7	373.0	417.4	457.6	502.1	504.9	933.9	1032.8	1282.4	955.4	444.7
85°	281.2	281.2	317.0	308.4	324.2	295.5	411.7	454.7	513.6	406.0	206.6
87.5°	111.9	123.4	208.0	186.5	144.9	116.2	152.1	160.7	177.9	159.2	86.1
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: P454185
 CATALOG NUMBER: GALN-SA5B-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9	3452.9
2.5°	3458.6	3462.9	3452.9	3445.7	3442.8	3438.5	3434.2	3435.6	3441.4	3447.1	3445.7
5°	3475.8	3477.2	3460.0	3451.4	3445.7	3439.9	3439.9	3444.3	3455.7	3464.3	3464.3
7.5°	3518.8	3518.8	3494.5	3478.7	3470.1	3460.0	3457.2	3458.6	3467.2	3478.7	3480.1
10°	3586.3	3580.5	3549.0	3524.6	3508.8	3484.4	3462.9	3451.4	3455.7	3462.9	3462.9
12.5°	3668.0	3652.3	3612.1	3579.1	3540.4	3494.5	3450.0	3427.0	3425.6	3432.8	3429.9
15°	3755.5	3738.3	3682.4	3622.1	3554.7	3487.3	3434.2	3401.2	3375.4	3368.2	3384.0
17.5°	3857.4	3821.5	3744.1	3660.9	3560.4	3472.9	3389.7	3322.3	3276.4	3263.5	3267.8
20°	3980.8	3933.4	3828.7	3698.2	3556.1	3421.3	3292.2	3201.8	3127.2	3104.3	3107.1
22.5°	4151.5	4069.7	3916.2	3716.8	3520.3	3323.8	3144.4	3026.8	2936.4	2900.6	2922.1
25°	4345.1	4256.2	3999.4	3712.5	3427.0	3167.4	2969.4	2815.9	2734.2	2681.1	2692.6
27.5°	4611.9	4454.1	4088.3	3673.8	3293.6	2976.6	2747.1	2602.2	2527.6	2500.3	2513.3
30°	4953.4	4710.9	4184.5	3569.1	3082.8	2735.6	2523.3	2428.6	2384.2	2349.7	2361.2
32.5°	5200.1	4891.7	4206.0	3392.6	2854.7	2516.1	2371.2	2301.0	2252.2	2219.2	2226.4
35°	5376.5	5045.2	4195.9	3176.0	2616.5	2335.4	2250.7	2193.4	2114.5	2042.7	2029.8
37.5°	5613.2	5237.4	4122.8	2939.3	2381.3	2213.4	2153.2	2047.0	1933.7	1837.6	1833.3
40°	5976.2	5462.6	3966.4	2661.0	2180.5	2123.1	2049.9	1912.2	1790.3	1712.8	1707.1
42.5°	6350.6	5670.6	3754.1	2368.4	2015.5	2028.4	1939.5	1803.2	1728.6	1678.4	1672.6
45°	6808.2	5895.8	3524.6	2114.5	1893.6	1939.5	1843.3	1764.4	1720.0	1687.0	1678.4
47.5°	7303.1	6126.8	3266.4	1886.4	1790.3	1857.7	1803.2	1767.3	1742.9	1720.0	1709.9
50°	7836.7	6385.0	3023.9	1702.8	1697.0	1773.1	1798.9	1786.0	1771.6	1764.4	1755.8
52.5°	8422.0	6648.9	2820.2	1573.7	1615.3	1712.8	1800.3	1810.3	1810.3	1806.0	1800.3
55°	8817.9	6832.6	2613.7	1468.9	1532.1	1664.0	1797.4	1836.2	1850.5	1844.8	1839.0
57.5°	9110.6	6933.0	2354.0	1378.6	1461.8	1616.7	1781.7	1839.0	1853.4	1860.6	1857.7
60°	9170.8	6839.7	2014.0	1283.9	1385.7	1547.8	1724.3	1796.0	1814.7	1859.1	1863.4
62.5°	8899.7	6552.8	1675.5	1190.6	1292.5	1443.1	1646.8	1747.2	1784.5	1853.4	1860.6
64°	8566.9	6231.5	1487.6	1131.8	1232.2	1384.3	1608.1	1734.3	1783.1	1874.9	1880.6
65°	8323.0	5997.7	1370.0	1094.5	1193.5	1345.6	1586.6	1738.6	1796.0	1907.9	1916.5
67.5°	7425.0	5192.9	1133.3	1007.0	1101.7	1279.6	1590.9	1774.5	1793.1	1920.8	1919.4
70°	6144.0	4134.3	949.6	926.7	1012.8	1226.5	1573.7	1717.1	1718.5	1803.2	1783.1
72.5°	4600.5	3055.5	823.4	843.5	913.8	1100.3	1486.2	1639.6	1615.3	1626.7	1606.6
75°	3160.2	2021.2	708.6	754.6	810.5	972.6	1362.8	1489.0	1450.3	1435.9	1421.6
77.5°	1687.0	1117.5	589.6	667.0	704.3	840.6	1189.2	1311.1	1271.0	1215.0	1196.4
80°	682.8	526.5	474.8	552.3	573.8	677.1	989.8	1065.8	1035.7	938.2	906.6
82.5°	342.8	315.6	373.0	434.7	436.1	483.4	735.9	807.6	740.2	621.1	593.9
85°	179.3	185.1	256.8	305.6	269.7	261.1	441.8	489.2	449.0	390.2	351.5
87.5°	64.6	74.6	134.8	133.4	94.7	50.2	97.5	47.3	25.8	15.8	20.1
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)