

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: P532405

Luminaire Tested: **GALN-SA7D-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29844 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

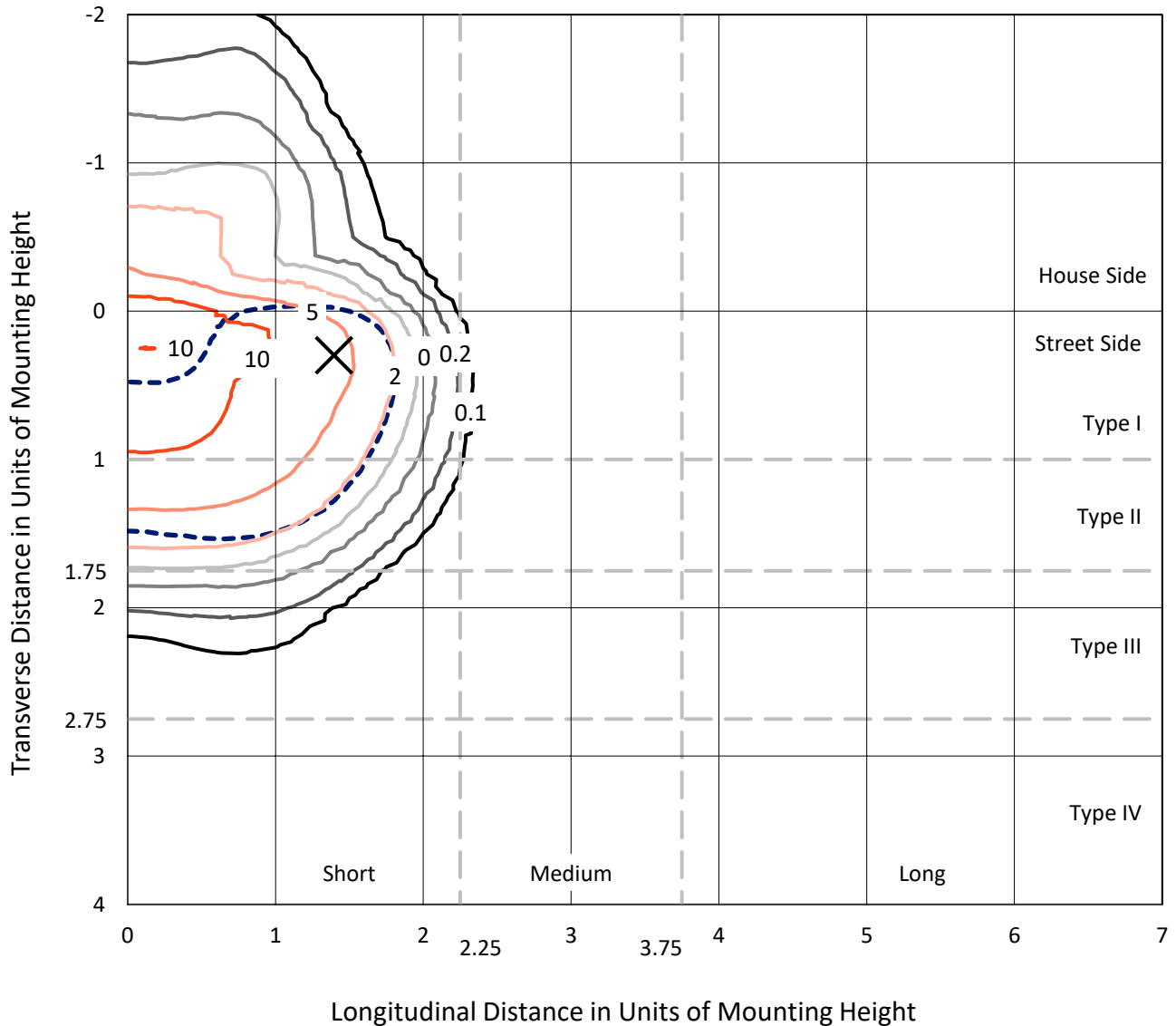
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532405
 CATALOG NUMBER: GALN-SA7D-730-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

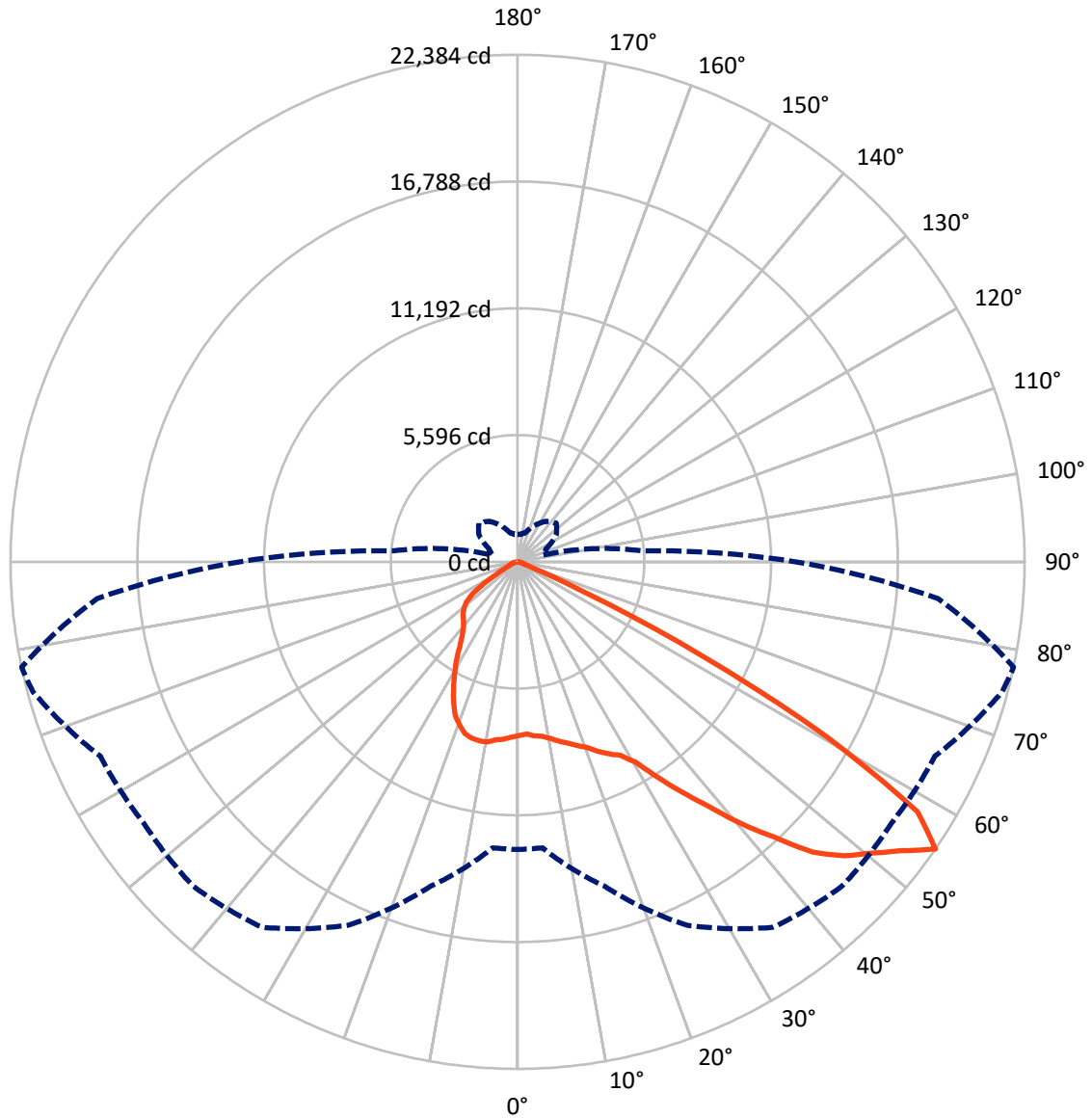
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

REPORT NUMBER: P532405
CATALOG NUMBER: GALN-SA7D-730-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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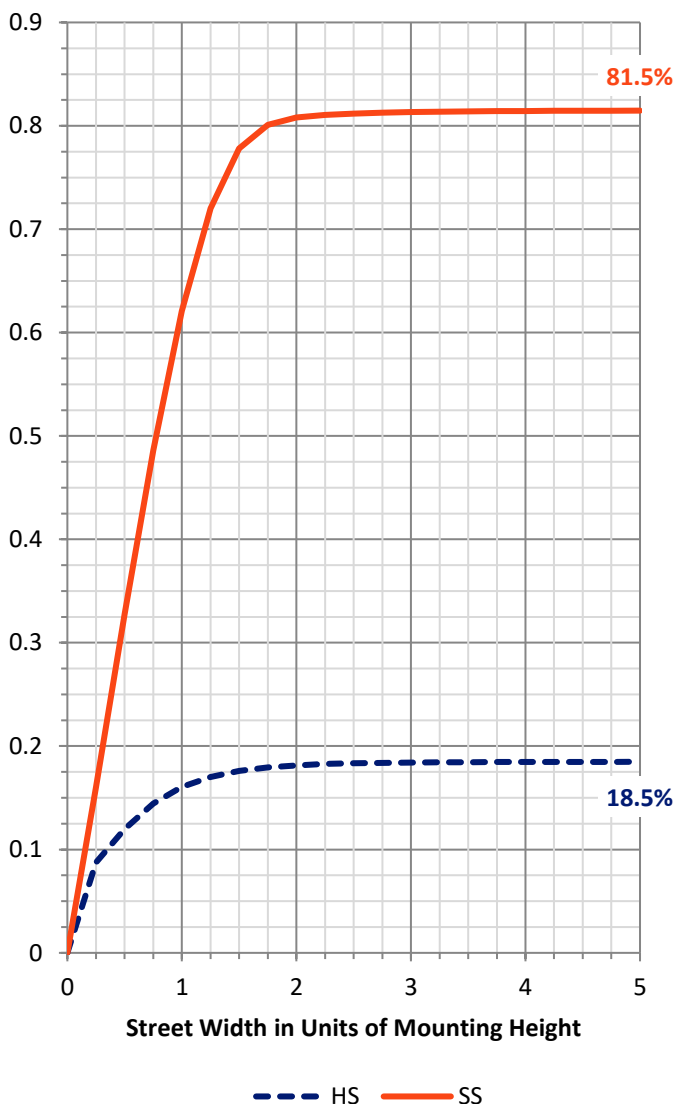
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5543.2	0.0	5543.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24300.8	0.0	24300.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	29844.0	0.0	29844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.2	2.3
10°-20°	1810.7	6.1
20°-30°	3173.8	10.6
30°-40°	5233.2	17.5
40°-50°	7615.0	25.5
50°-60°	8628.6	28.9
60°-70°	2467.1	8.3
70°-80°	191.6	0.6
80°-90°	39.9	0.1
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°	29844.0	100.0
0°-180°	29844.0	100.0

Coefficient of Utilization



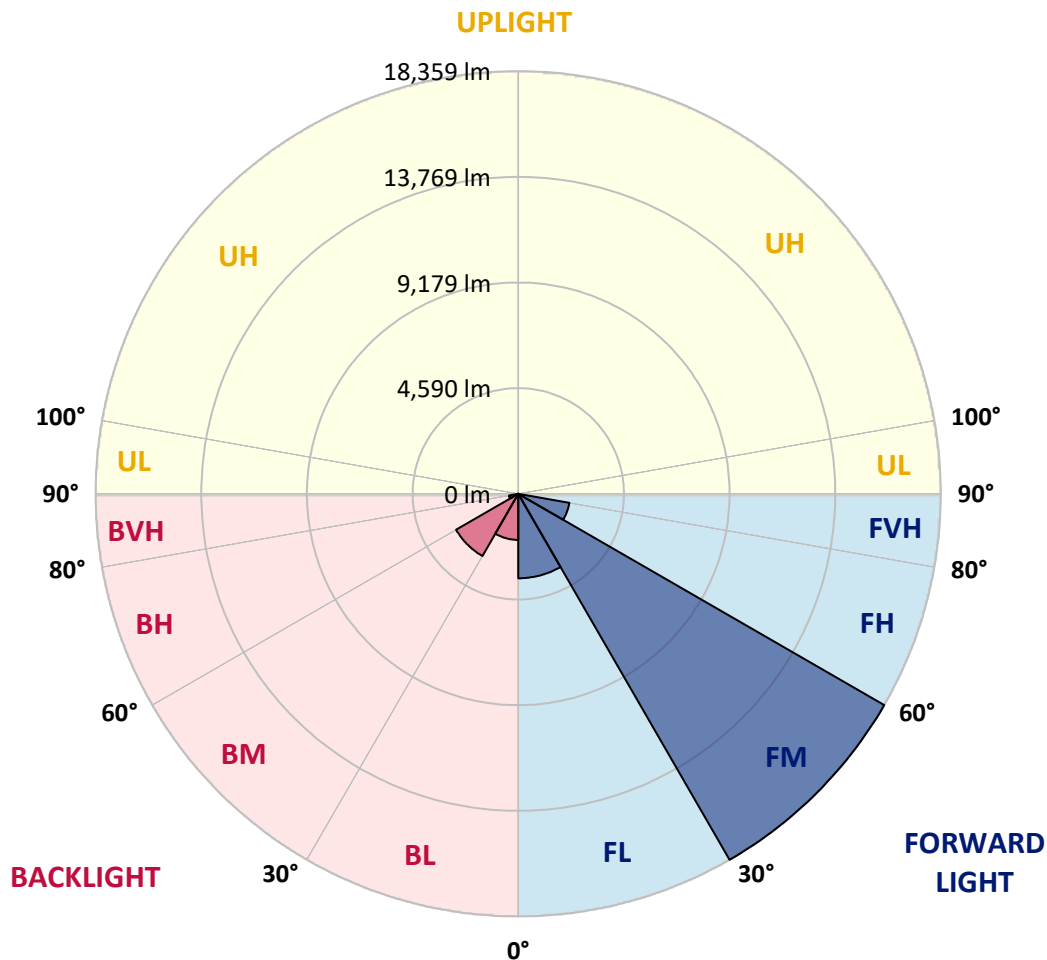
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3668.7	12.3			
FM (30°-60°)	18358.7	61.5			
FH (60°-80°)	2254.0	7.6			G2/5000
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	2000.0	6.7	B3/2500		
BM (30°-60°)	3118.1	10.4	B3/5000		
BH (60°-80°)	404.6	1.4	B1/500		G1/500
BVH (80°-90°)	20.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P532405

CATALOG NUMBER: GALN-SA7D-730-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9
2.5°	7214.0	7283.4	7294.1	7379.4	7374.1	7518.2	7560.9	7566.2	7662.2	7614.2	7736.9
5°	7011.3	6973.9	6957.9	7107.3	7150.0	7278.1	7384.8	7448.8	7646.2	7715.6	7843.7
7.5°	6829.9	6829.9	6840.5	6973.9	6957.9	7123.3	7235.4	7432.8	7720.9	7779.6	7934.4
10°	6653.8	6589.7	6669.8	6808.5	6925.9	7000.6	7235.4	7422.1	7758.3	7929.0	8142.5
12.5°	6563.1	6595.1	6605.7	6707.1	6835.2	7059.3	7187.4	7496.8	8025.1	8126.5	8355.9
15°	7134.0	7070.0	6915.2	6824.5	6931.2	7037.9	7358.1	7672.9	8163.8	8307.9	8564.0
17.5°	7795.6	7742.3	7614.2	7368.8	7128.7	7326.1	7576.9	7865.0	8313.2	8526.6	8905.5
20°	8660.0	8574.7	8446.6	7966.4	7758.3	7544.9	7811.6	8153.1	8558.7	8750.7	9140.3
22.5°	9689.9	9689.9	9401.7	8820.1	8387.9	8185.1	8297.2	8494.6	8830.8	9092.2	9476.4
25°	10762.4	10730.3	10468.9	9865.9	9134.9	8894.8	9022.9	9161.6	9252.3	9396.4	9652.5
27.5°	11989.6	11802.8	11472.0	10805.0	10159.4	9695.2	9833.9	9711.2	9599.1	9673.8	10042.0
30°	12822.0	12939.4	12517.8	11877.5	11269.3	10751.7	10778.4	10671.6	10159.4	10266.1	10484.9
32.5°	13686.4	13761.1	13526.3	13174.1	12565.9	11962.9	11744.1	11653.4	11269.3	11317.3	11103.8
35°	14406.7	14550.8	14342.7	14187.9	14011.9	13526.3	12923.4	13216.8	12597.9	12480.5	11925.6
37.5°	15068.4	15025.7	15271.1	15111.0	15073.7	14732.2	14070.6	14129.3	13713.1	13686.4	13046.1
40°	15660.6	15671.3	16007.5	16082.2	15932.8	15324.5	14364.0	14828.2	15164.4	15196.4	14374.7
42.5°	16151.5	16295.6	16583.7	17186.7	16962.6	15948.8	14668.2	15175.1	16423.7	16621.1	15634.0
45°	16578.4	16871.9	17229.4	17768.3	17640.2	16834.5	15425.9	15890.1	17768.3	18285.9	16818.5
47.5°	16605.1	16989.3	17378.8	18179.1	18339.2	17309.4	16210.2	17021.3	18835.4	19395.7	17682.9
50°	16498.4	16701.1	17480.1	18349.9	18712.7	18083.1	17309.4	17971.0	19870.6	20222.8	18120.4
52.5°	15233.8	15388.5	16951.9	18510.0	19385.0	18958.2	18766.1	19294.3	20927.1	21188.5	18531.3
55°	12699.3	12672.6	14822.9	17704.3	19694.5	20254.8	20137.4	20324.1	22149.0	22383.8	18632.7
57.5°	8686.7	9172.3	11029.1	14742.9	17800.3	19950.6	20073.4	19763.9	20724.3	20815.0	16242.2
60°	4684.9	4887.6	6381.6	9839.3	13553.0	16258.2	16578.4	16018.1	15943.4	15687.3	11594.7
62.5°	1862.2	1963.6	2812.0	4871.6	7384.8	9881.9	10570.3	10340.8	9849.9	9177.6	6002.8
65°	885.7	949.8	1398.0	2278.4	3276.2	4119.3	4807.6	5021.0	3703.1	3334.9	1979.6
67.5°	602.9	651.0	1019.1	1301.9	1168.5	1221.9	1590.1	1478.0	869.7	741.7	549.6
70°	458.9	490.9	816.4	885.7	522.9	368.2	410.9	384.2	357.5	362.8	357.5
72.5°	325.5	352.2	597.6	522.9	229.4	170.7	218.8	261.5	261.5	261.5	256.1
75°	197.4	224.1	346.8	202.8	90.7	90.7	138.7	176.1	186.8	192.1	181.4
77.5°	101.4	128.1	117.4	58.7	58.7	69.4	101.4	122.7	133.4	133.4	128.1
80°	21.3	21.3	21.3	32.0	58.7	74.7	101.4	112.1	128.1	128.1	117.4
82.5°	0.0	5.3	16.0	32.0	53.4	69.4	96.0	112.1	128.1	133.4	122.7
85°	0.0	5.3	10.7	21.3	37.4	42.7	37.4	32.0	32.0	32.0	32.0
87.5°	0.0	0.0	5.3	5.3	5.3	10.7	10.7	10.7	10.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9	7672.9
2.5°	7747.6	7763.6	7736.9	7731.6	7710.3	7774.3	7619.6	7582.2	7678.2	7587.5	7608.9
5°	7849.0	7886.3	7838.3	7758.3	7640.9	7459.5	7304.7	7102.0	7005.9	6936.6	6925.9
7.5°	7923.7	7950.4	7902.4	7646.2	7294.1	6835.2	6493.7	6242.9	6045.5	5986.8	5890.7
10°	8227.8	8233.2	7993.1	7427.5	6739.1	6136.2	5613.3	5229.1	5031.7	4909.0	4855.6
12.5°	8430.6	8419.9	7934.4	6995.3	6077.5	5277.1	4679.5	4215.3	4033.9	3975.2	3937.8
15°	8686.7	8628.0	7795.6	6552.4	5223.8	4359.4	3820.4	3500.3	3484.3	3446.9	3484.3
17.5°	8889.5	8724.1	7592.9	5746.7	4407.4	3591.0	3238.8	3260.2	3302.9	3340.2	3345.6
20°	9220.3	8878.8	7128.7	5042.4	3649.7	3078.8	3073.4	3169.5	3276.2	3318.9	3361.6
22.5°	9471.1	8942.8	6632.4	4290.0	3030.7	2870.7	2961.4	3105.4	3185.5	3228.2	3292.2
25°	9561.8	8766.8	5970.8	3537.6	2731.9	2774.6	2913.4	3009.4	3110.8	3158.8	3132.1
27.5°	9652.5	8676.0	5181.1	2913.4	2571.9	2710.6	2828.0	2924.0	2956.0	3020.1	3062.8
30°	9871.3	8361.2	4471.4	2518.5	2491.8	2667.9	2753.3	2785.3	2870.7	2908.0	2908.0
32.5°	10047.4	8238.5	3719.1	2331.8	2481.2	2689.3	2699.9	2699.9	2710.6	2683.9	2673.2
35°	10410.2	7817.0	3046.8	2219.7	2475.8	2694.6	2721.3	2630.6	2385.1	2289.1	2262.4
37.5°	10858.4	7544.9	2550.5	2193.0	2513.2	2758.6	2801.3	2459.8	2139.7	1984.9	1958.2
40°	11402.6	7352.8	2225.0	2182.4	2598.5	2908.0	2780.0	2326.4	1910.2	1686.1	1675.4
42.5°	12037.6	7176.7	2006.3	2177.0	2705.3	3062.8	2758.6	2214.4	1675.4	1526.0	1547.4
45°	12544.5	7080.6	1856.9	2139.7	2742.6	3153.5	2774.6	2016.9	1579.4	1483.4	1494.0
47.5°	12939.4	6877.9	1734.1	2075.6	2737.3	3185.5	2630.6	1936.9	1531.4	1558.1	1584.7
50°	12950.0	6605.7	1579.4	1936.9	2657.2	3126.8	2465.1	1862.2	1520.7	1632.8	1686.1
52.5°	12806.0	6221.6	1414.0	1739.5	2470.5	2924.0	2315.7	1830.2	1472.7	1462.0	1526.0
55°	12293.7	5501.2	1136.5	1408.7	2086.3	2411.8	2182.4	1771.5	1328.6	1205.9	1216.6
57.5°	9935.3	3943.2	837.7	1008.5	1478.0	1766.2	1968.9	1744.8	1195.2	1024.5	1029.8
60°	6152.2	2235.7	613.6	688.3	912.4	1072.5	1595.4	1622.1	1067.2	864.4	853.7
62.5°	3158.8	1104.5	474.9	485.6	560.3	629.6	1093.8	1360.6	965.8	821.7	821.7
65°	1056.5	544.3	416.2	373.5	373.5	389.5	661.6	944.4	816.4	688.3	688.3
67.5°	453.5	405.5	362.8	325.5	298.8	282.8	373.5	549.6	608.3	522.9	501.6
70°	352.2	341.5	314.8	272.1	234.8	213.4	218.8	282.8	346.8	336.2	325.5
72.5°	261.5	261.5	250.8	213.4	181.4	154.7	144.1	149.4	165.4	170.7	176.1
75°	181.4	186.8	186.8	165.4	133.4	112.1	96.0	80.0	64.0	53.4	48.0
77.5°	122.7	128.1	138.7	122.7	101.4	74.7	58.7	42.7	26.7	10.7	10.7
80°	106.7	122.7	133.4	122.7	106.7	80.0	58.7	32.0	16.0	0.0	0.0
82.5°	112.1	122.7	138.7	117.4	101.4	74.7	58.7	37.4	16.0	5.3	0.0
85°	26.7	26.7	32.0	37.4	48.0	53.4	42.7	26.7	16.0	5.3	0.0
87.5°	10.7	10.7	10.7	10.7	10.7	5.3	5.3	5.3	5.3	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)