

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: P527947

Luminaire Tested: **GALN-SA3A-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7271 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

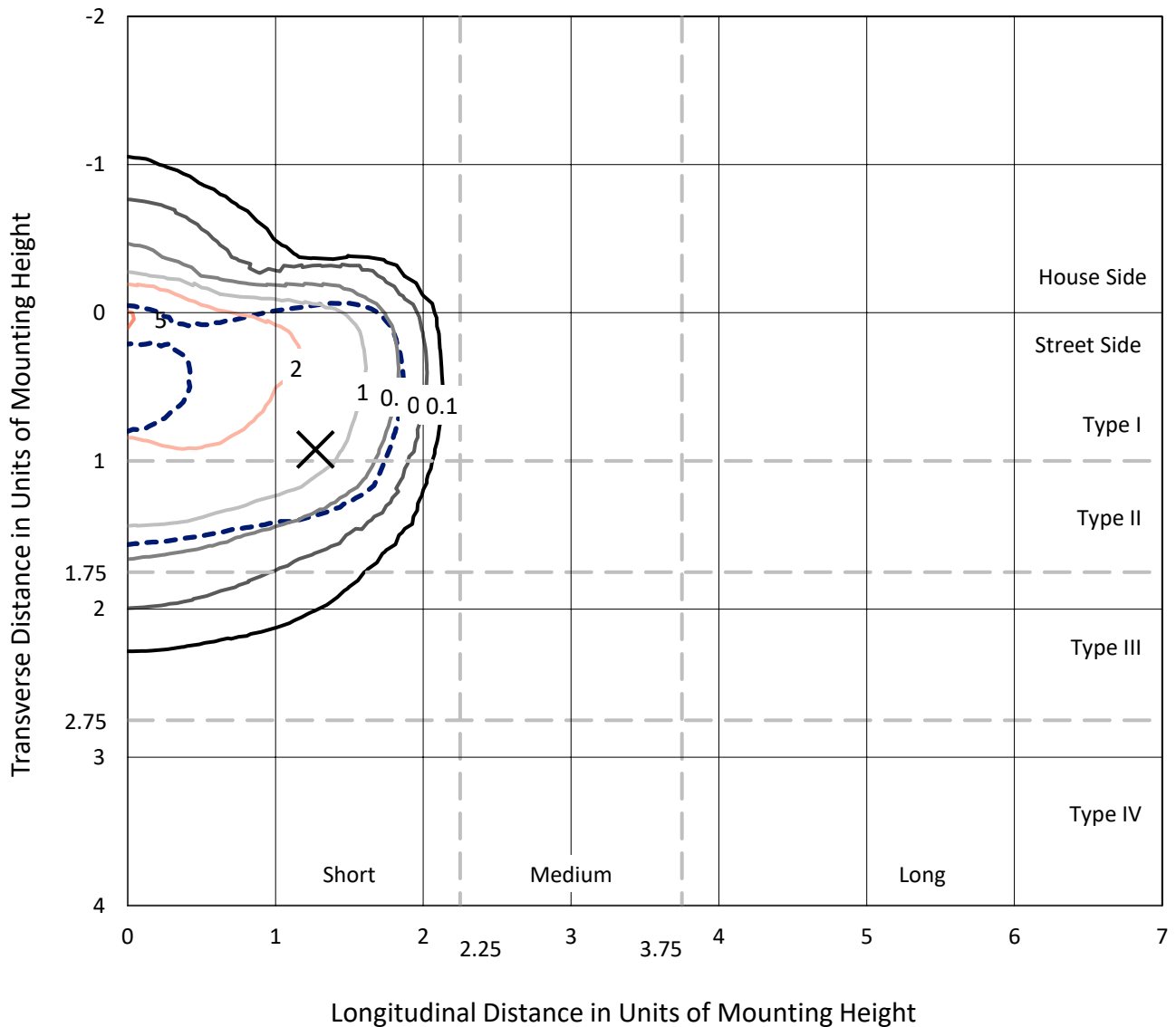
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527947
 CATALOG NUMBER: GALN-SA3A-730-U-SL3-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

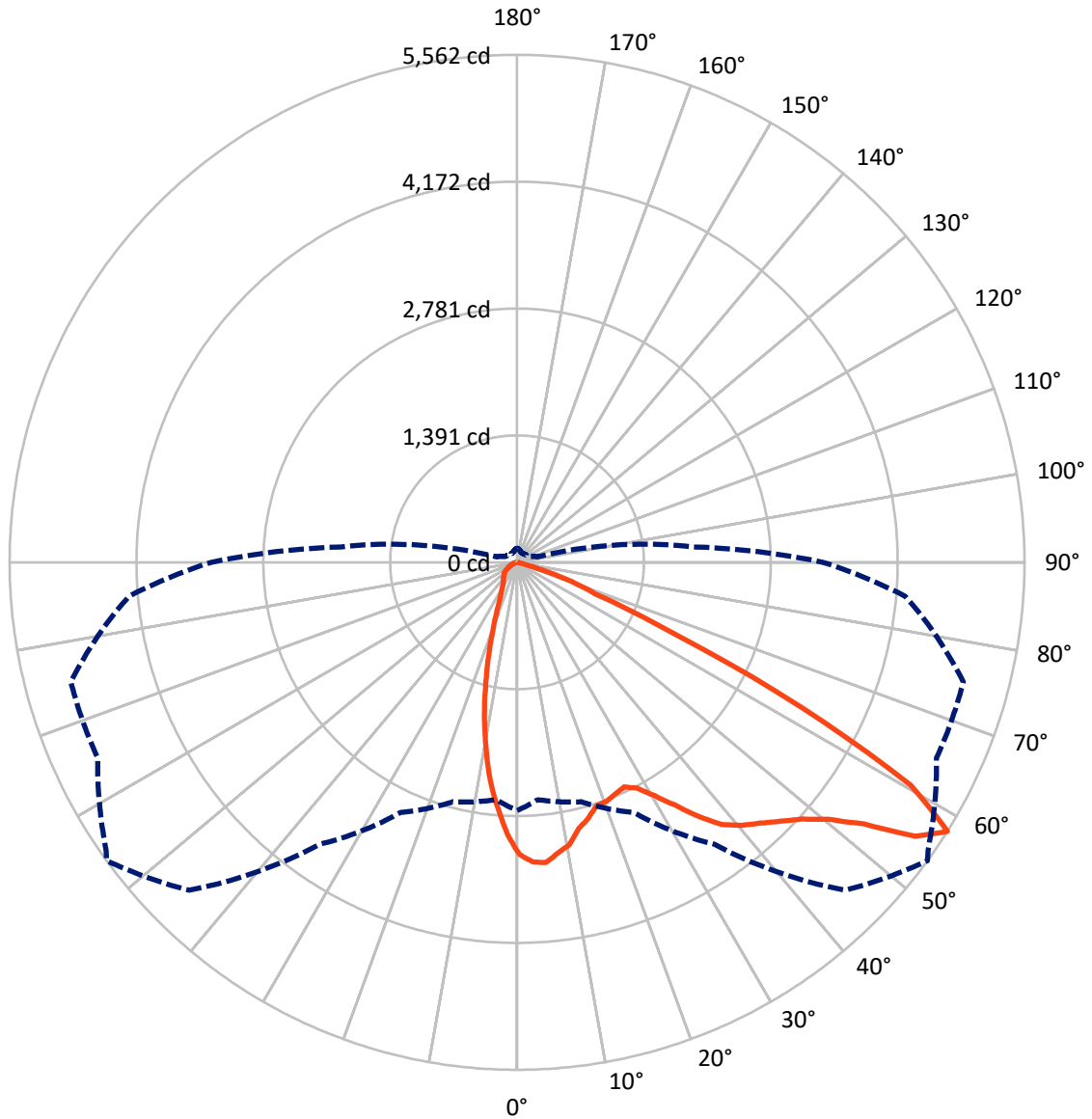
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P527947
CATALOG NUMBER: GALN-SA3A-730-U-SL3-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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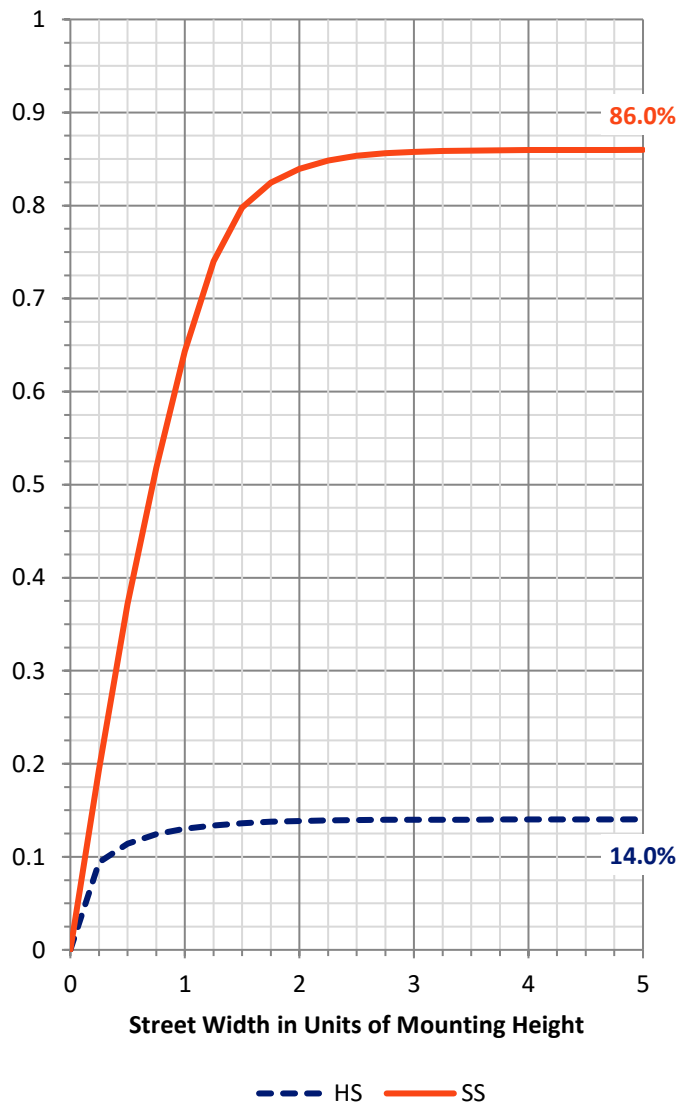
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.5	0.0	1027.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6243.5	0.0	6243.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	7271.0	0.0	7271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.0	3.7
10°-20°	572.2	7.9
20°-30°	758.3	10.4
30°-40°	1102.1	15.2
40°-50°	1634.2	22.5
50°-60°	2043.5	28.1
60°-70°	806.1	11.1
70°-80°	80.3	1.1
80°-90°	6.2	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°	7271.0	100.0
0°-180°	7271.0	100.0

Coefficient of Utilization

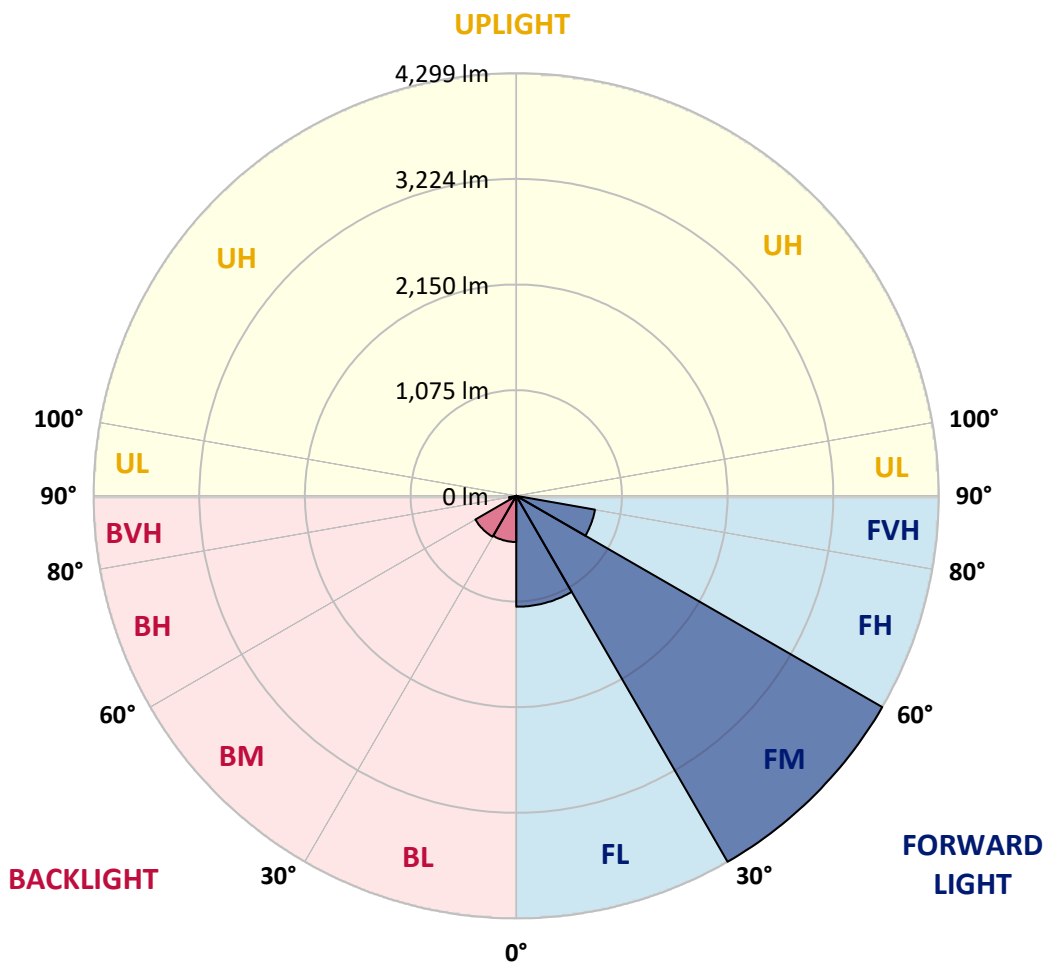


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1128.7	15.5			
FM (30°-60°)	4299.3	59.1			
FH (60°-80°)	812.7	11.2			G1/1800
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	469.9	6.5	B1/500		
BM (30°-60°)	480.5	6.6	B1/1000		
BH (60°-80°)	73.7	1.0	B0/110		G0/110
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





REPORT NUMBER: P527947

CATALOG NUMBER: GALN-SA3A-730-U-SL3-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0
2.5°	3389.6	3354.4	3357.1	3344.9	3328.7	3340.9	3288.2	3300.3	3299.0	3227.3	3180.0
5°	3304.4	3342.2	3303.0	3335.5	3304.4	3338.2	3305.7	3281.4	3242.2	3189.5	3101.6
7.5°	3159.7	3123.2	3134.0	3174.6	3181.3	3257.1	3216.5	3247.6	3231.4	3127.3	3006.9
10°	2869.0	2860.9	2915.0	2969.1	3035.3	3116.4	3147.5	3130.0	3117.8	3078.6	2917.7
12.5°	2645.9	2668.9	2667.6	2756.8	2869.0	2915.0	2996.1	2993.4	3061.0	2988.0	2833.9
15°	2433.7	2445.8	2502.6	2558.1	2682.4	2813.6	2913.6	2927.2	3008.3	2956.9	2769.0
17.5°	2303.9	2286.3	2330.9	2397.2	2524.3	2696.0	2806.8	2839.3	2950.1	2939.3	2694.6
20°	2175.4	2175.4	2211.9	2290.3	2406.6	2600.0	2797.4	2787.9	2950.1	2919.0	2614.8
22.5°	2132.2	2153.8	2163.3	2222.7	2360.7	2527.0	2756.8	2774.4	2973.1	2909.6	2579.7
25°	2191.7	2163.3	2166.0	2213.3	2343.1	2491.8	2727.1	2766.3	3015.0	2956.9	2551.3
27.5°	2201.1	2229.5	2237.6	2270.1	2356.6	2502.6	2801.4	2881.2	3119.1	3067.8	2559.4
30°	2283.6	2312.0	2310.6	2366.1	2425.6	2590.5	2967.7	2983.9	3334.1	3207.0	2609.4
32.5°	2383.6	2413.4	2422.8	2487.7	2535.1	2751.4	3170.5	3212.4	3541.0	3426.1	2740.6
35°	2508.0	2497.2	2540.5	2605.4	2706.8	2986.6	3417.9	3488.3	3764.1	3710.0	2875.8
37.5°	2663.5	2650.0	2691.9	2797.4	2935.3	3265.2	3646.4	3692.4	3926.3	3973.6	3125.9
40°	2773.0	2778.4	2905.5	3047.5	3193.5	3530.2	3791.1	3835.7	4039.9	4219.7	3315.2
42.5°	2955.6	2989.4	3142.1	3315.2	3468.0	3728.9	3908.7	3952.0	4092.6	4417.1	3570.7
45°	3220.5	3205.7	3374.7	3568.0	3737.0	3935.8	4048.0	4033.1	4123.7	4613.1	3731.6
47.5°	3561.3	3564.0	3676.2	3841.1	4016.9	4115.6	4203.5	4150.8	4188.6	4820.0	3946.6
50°	3793.8	3814.1	3904.7	4073.7	4161.6	4313.0	4425.2	4392.8	4380.6	4944.4	4081.8
52.5°	3853.3	3914.1	3962.8	4173.7	4379.2	4618.6	4761.9	4830.8	4614.5	4986.3	4253.5
55°	3404.4	3458.5	3630.2	3919.6	4461.7	5102.6	5300.0	5301.3	4920.1	5172.9	4373.8
57.5°	2721.6	2612.1	2717.6	3024.5	3772.2	5082.3	5562.3	5498.7	5072.8	5063.4	4269.7
60°	1882.0	1855.0	1861.8	1983.4	2610.8	4042.6	4956.6	5039.0	4671.3	4388.7	3380.1
62.5°	1491.3	1468.3	1438.6	1425.0	1621.1	2518.8	3496.4	3612.6	3266.5	2846.0	2003.7
65°	1168.2	1154.6	1158.7	1212.8	1211.4	1429.1	1911.8	1864.5	1492.6	1103.3	630.0
67.5°	788.2	808.5	824.7	988.3	1072.2	995.1	923.4	896.4	485.4	204.2	139.3
70°	443.5	446.2	463.7	617.9	813.9	772.0	636.8	636.8	242.0	74.4	79.8
72.5°	242.0	233.9	217.7	266.4	362.3	367.8	283.9	247.4	71.7	48.7	44.6
75°	117.6	116.3	100.1	82.5	78.4	64.9	50.0	46.0	32.4	31.1	27.0
77.5°	24.3	23.0	12.2	12.2	13.5	14.9	18.9	18.9	23.0	23.0	18.9
80°	0.0	0.0	1.4	5.4	9.5	13.5	16.2	16.2	18.9	18.9	14.9
82.5°	0.0	0.0	1.4	4.1	8.1	12.2	14.9	16.2	18.9	20.3	16.2
85°	0.0	0.0	0.0	2.7	6.8	9.5	8.1	8.1	6.8	5.4	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



REPORT NUMBER: P527947

CATALOG NUMBER: GALN-SA3A-730-U-SL3-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0	3203.0
2.5°	3155.7	3152.9	3090.8	3055.6	2992.1	2936.6	2892.0	2859.6	2859.6	2839.3	2820.3
5°	3066.4	3043.4	2910.9	2825.8	2705.4	2616.2	2555.3	2508.0	2433.7	2453.9	2374.2
7.5°	2955.6	2897.4	2721.6	2591.9	2425.6	2298.5	2168.7	2053.7	1942.9	1892.9	1919.9
10°	2836.6	2735.2	2498.6	2293.1	2086.2	1853.6	1702.2	1518.3	1404.8	1398.0	1368.3
12.5°	2710.8	2595.9	2307.9	2024.0	1752.2	1472.4	1241.2	1069.5	992.4	907.2	923.4
15°	2616.2	2445.8	2095.7	1753.6	1392.6	1110.0	877.5	745.0	672.0	651.7	644.9
17.5°	2513.4	2330.9	1879.3	1465.6	1092.4	799.1	631.4	567.9	539.5	539.5	535.4
20°	2406.6	2201.1	1664.4	1197.9	819.3	596.2	505.7	485.4	484.0	482.7	482.7
22.5°	2336.3	2052.4	1469.7	951.8	617.9	477.3	439.4	431.3	436.7	452.9	452.9
25°	2262.0	1909.1	1254.7	734.2	478.6	409.7	388.0	393.4	407.0	421.8	416.4
27.5°	2186.2	1815.8	1051.9	576.0	392.1	358.3	350.2	362.3	377.2	390.7	386.7
30°	2168.7	1715.7	859.9	436.7	336.7	312.3	317.7	328.5	343.4	348.8	354.2
32.5°	2195.7	1637.3	704.4	358.3	293.4	286.6	286.6	292.0	301.5	313.7	309.6
35°	2272.8	1592.7	557.0	311.0	269.1	262.3	260.9	266.4	271.8	275.8	271.8
37.5°	2390.4	1557.5	455.6	275.8	252.8	242.0	239.3	238.0	243.4	244.7	247.4
40°	2540.5	1576.5	386.7	254.2	236.6	224.4	216.3	216.3	216.3	220.4	221.7
42.5°	2702.7	1602.2	334.0	242.0	221.7	206.9	198.7	196.0	198.7	204.2	202.8
45°	2873.1	1652.2	300.2	223.1	208.2	189.3	178.5	175.8	182.5	193.3	192.0
47.5°	3032.6	1723.8	274.5	210.9	194.7	177.1	163.6	160.9	173.1	187.9	189.3
50°	3192.2	1848.2	265.0	201.5	185.2	164.9	152.8	150.1	163.6	182.5	186.6
52.5°	3376.0	1982.1	258.2	189.3	174.4	155.5	142.0	139.3	154.1	178.5	179.8
55°	3496.4	2095.7	252.8	167.7	154.1	140.6	129.8	128.4	144.7	166.3	171.7
57.5°	3355.8	1937.5	233.9	146.0	131.1	124.4	114.9	114.9	128.4	148.7	152.8
60°	2544.5	1275.0	166.3	117.6	110.9	106.8	102.8	102.8	113.6	128.4	129.8
62.5°	1489.9	686.8	106.8	94.6	94.6	90.6	83.8	83.8	94.6	102.8	104.1
65°	442.1	220.4	86.5	81.1	79.8	73.0	66.2	64.9	73.0	77.1	75.7
67.5°	127.1	101.4	71.7	67.6	66.2	55.4	51.4	50.0	51.4	48.7	47.3
70°	75.7	69.0	55.4	56.8	50.0	40.6	36.5	35.2	32.4	28.4	25.7
72.5°	41.9	41.9	40.6	43.3	35.2	27.0	23.0	18.9	14.9	12.2	10.8
75°	25.7	27.0	28.4	29.7	23.0	17.6	14.9	9.5	5.4	2.7	2.7
77.5°	17.6	18.9	20.3	21.6	18.9	16.2	12.2	6.8	1.4	0.0	0.0
80°	13.5	14.9	17.6	18.9	20.3	21.6	16.2	6.8	1.4	0.0	0.0
82.5°	14.9	16.2	20.3	18.9	18.9	18.9	14.9	6.8	1.4	0.0	0.0
85°	2.7	4.1	6.8	6.8	9.5	12.2	9.5	2.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)