

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: P527291

Luminaire Tested: **GALN-SA2B-740-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-740-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8536 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

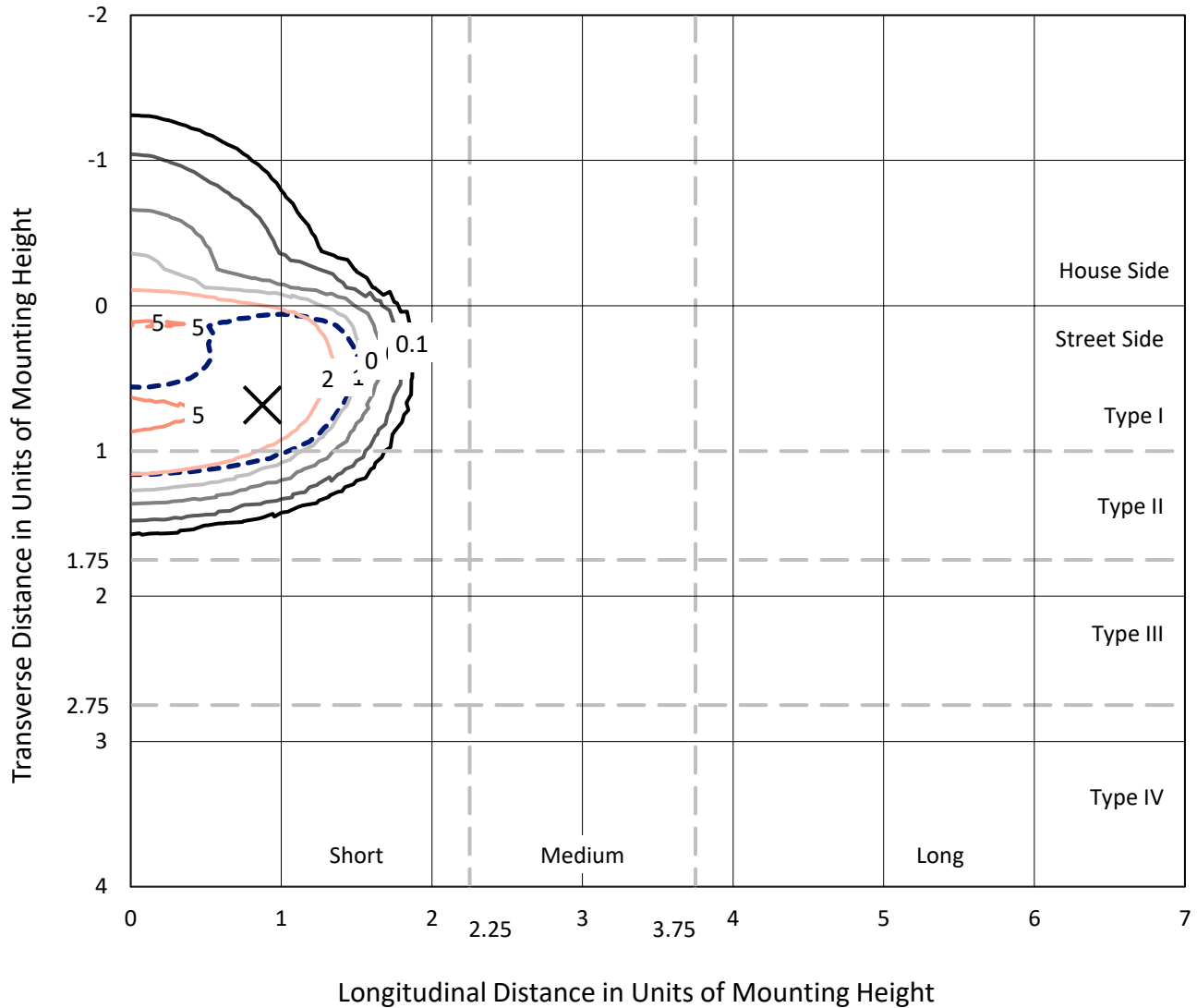
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

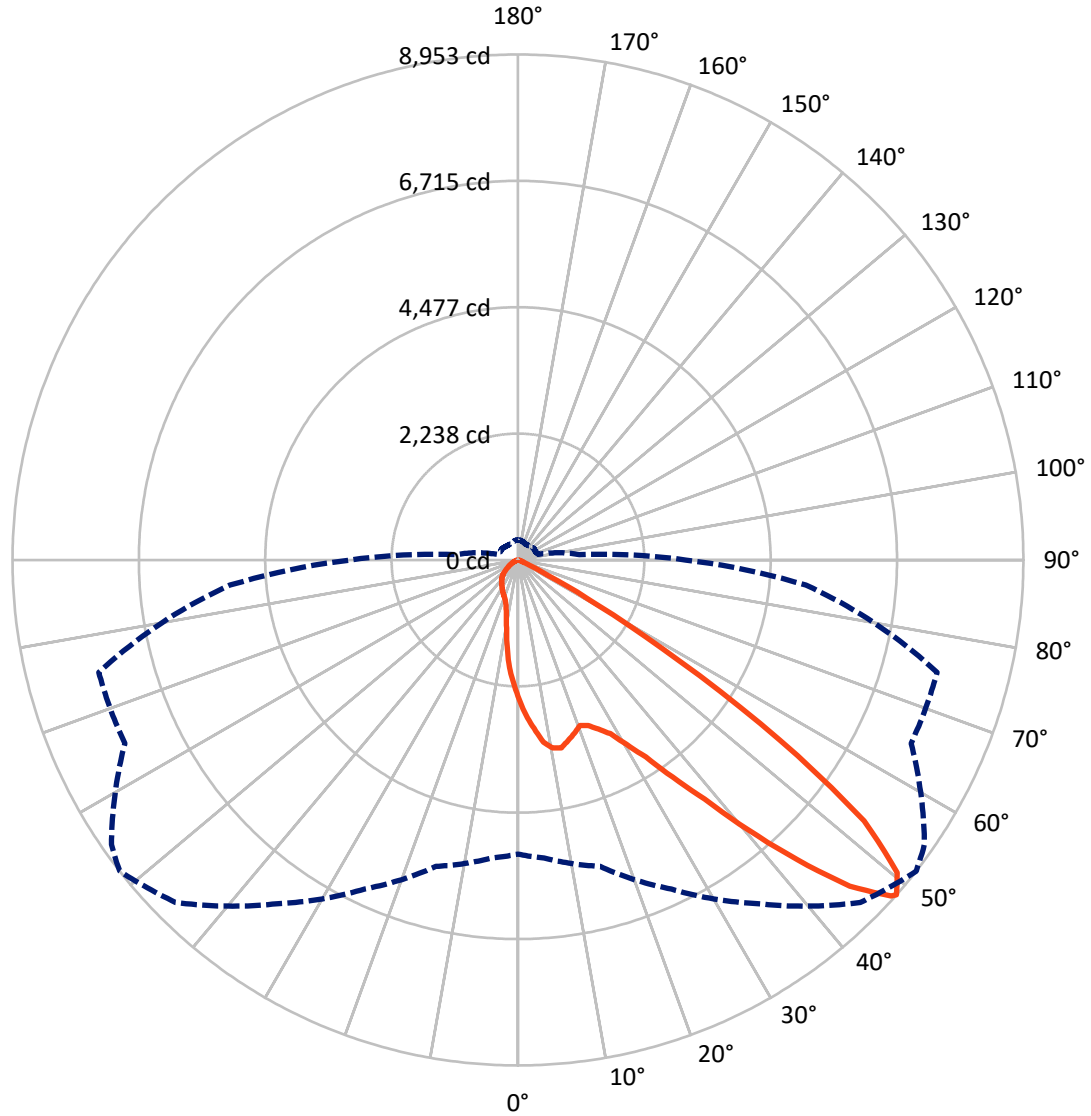
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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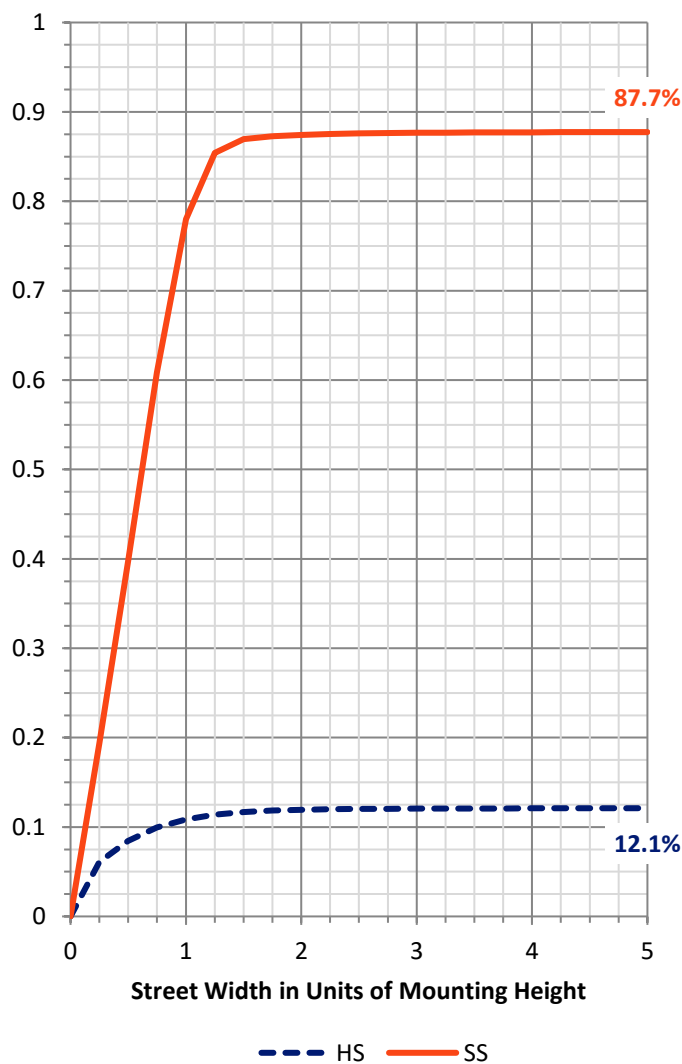
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1039.3	0.0	1039.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7496.7	0.0	7496.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	8536.0	0.0	8536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	2.6
10°-20°	589.6	6.9
20°-30°	1006.7	11.8
30°-40°	1853.9	21.7
40°-50°	2879.1	33.7
50°-60°	1732.8	20.3
60°-70°	200.4	2.3
70°-80°	38.8	0.5
80°-90°	9.0	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°	8536.0	100.0
0°-180°	8536.0	100.0

Coefficient of Utilization



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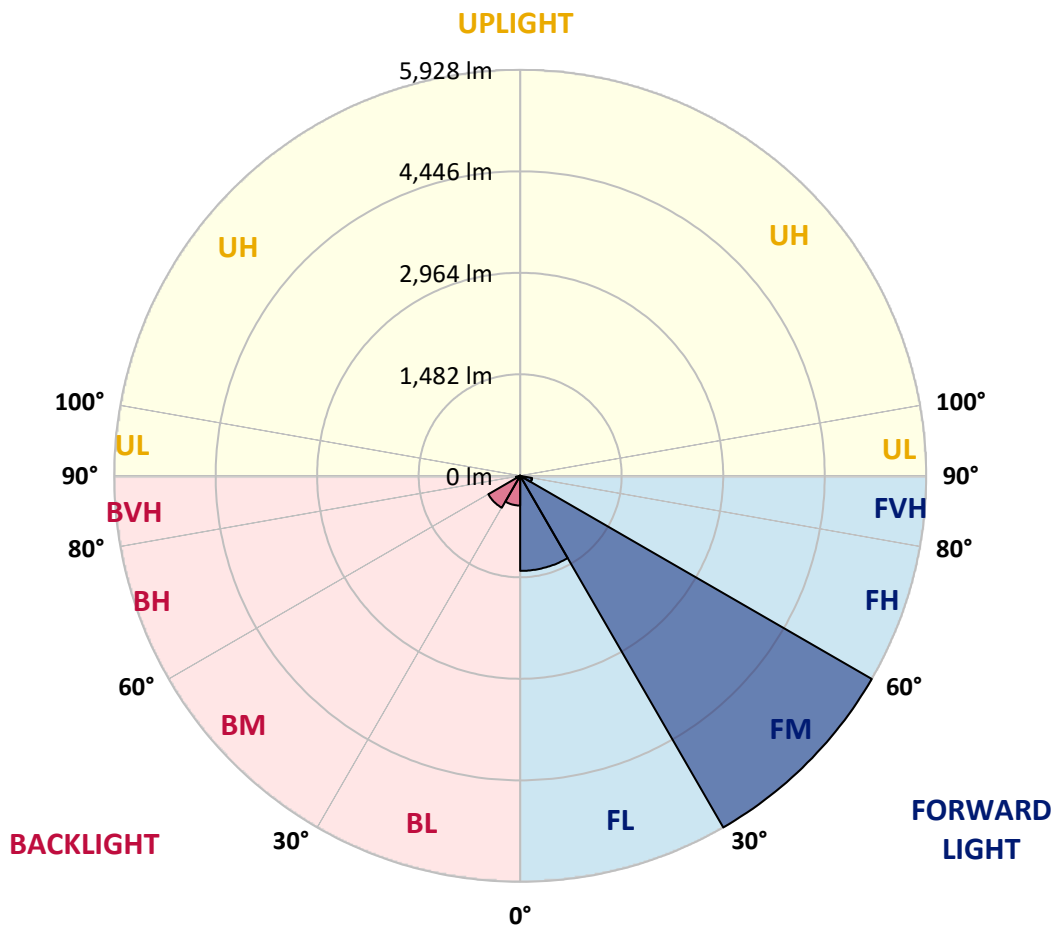
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1387.8	16.3			
FM (30°-60°)	5928.1	69.4			
FH (60°-80°)	176.5	2.1			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	434.2	5.1	B1/500		
BM (30°-60°)	537.7	6.3	B1/1000		
BH (60°-80°)	62.7	0.7	B0/110		G0/110
BVH (80°-90°)	4.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1
2.5°	2987.7	2919.2	2925.5	2880.7	2854.5	2812.2	2755.0	2743.8	2681.6	2597.0	2511.1
5°	3256.5	3240.3	3261.4	3196.7	3199.2	3129.5	2995.1	2997.6	2854.5	2716.4	2583.3
7.5°	3273.9	3236.6	3257.7	3314.9	3348.5	3336.1	3260.2	3194.2	3058.6	2855.8	2661.7
10°	2931.7	3002.6	3025.0	3119.6	3254.0	3395.8	3387.1	3390.9	3277.6	3012.6	2728.9
12.5°	2726.4	2679.1	2755.0	2812.2	3015.1	3290.1	3415.7	3443.1	3451.8	3164.4	2796.1
15°	2633.0	2633.0	2645.5	2661.7	2808.5	3062.3	3318.7	3398.3	3586.2	3363.5	2901.8
17.5°	2691.5	2689.0	2706.5	2672.9	2727.6	2923.0	3229.1	3319.9	3736.8	3558.8	2985.2
20°	2869.5	2878.2	2867.0	2769.9	2773.7	2920.5	3129.5	3272.6	3838.8	3728.1	3095.9
22.5°	3117.1	3122.1	3058.6	2952.8	2921.7	2993.9	3186.8	3296.3	3920.9	3930.9	3129.5
25°	3403.3	3383.4	3370.9	3221.6	3127.0	3189.3	3316.2	3379.7	3972.0	4105.1	3225.4
27.5°	3800.2	3760.4	3684.5	3551.4	3481.7	3393.3	3484.2	3588.7	4117.6	4349.0	3329.9
30°	4386.3	4351.5	4203.4	4031.7	3848.8	3761.7	3790.3	3847.5	4380.1	4631.5	3468.0
32.5°	5268.6	5195.2	4981.1	4653.9	4405.0	4164.8	4157.4	4218.3	4615.3	5022.2	3632.3
35°	6240.4	6218.0	5903.2	5566.0	5084.4	4713.6	4719.8	4752.2	5065.7	5534.9	3847.5
37.5°	6886.2	7009.4	6809.1	6447.0	6042.6	5512.5	5378.1	5389.3	5684.2	6142.1	4235.8
40°	7385.2	7280.7	7304.3	7219.7	6943.5	6582.6	6285.2	6226.7	6399.7	6814.1	4621.5
42.5°	7167.4	7172.4	7318.0	7518.4	7586.8	7560.7	7257.0	7146.3	7011.9	7364.1	4988.6
45°	6552.7	6680.9	6870.0	7400.1	7865.5	8302.3	8242.6	8058.4	7435.0	7799.6	5200.1
47.5°	5572.2	5567.2	5877.1	6566.4	7600.5	8623.3	8894.6	8765.2	7734.9	7751.0	5156.6
48°	5210.1	5299.7	5619.5	6430.8	7432.5	8576.1	8953.1	8790.1	7683.9	7686.3	5119.3
50°	3851.3	3835.1	4233.3	5228.8	6638.6	8058.4	8706.7	8833.6	7682.6	7359.1	4857.9
52.5°	2034.5	2104.2	2394.1	3287.6	4693.7	6595.0	7680.1	7878.0	7411.3	6824.0	4482.1
55°	864.8	781.5	1004.2	1484.5	2640.5	4406.2	5634.4	6074.9	6266.5	6038.8	3920.9
57.5°	308.6	337.2	388.2	558.7	1110.0	2411.5	3359.7	3701.9	4341.5	4431.1	2671.6
60°	197.9	201.6	217.8	256.3	416.9	929.5	1594.0	1866.5	2156.5	2226.1	1246.8
62.5°	153.1	154.3	161.8	168.0	197.9	360.9	598.5	709.3	736.7	633.4	327.3
65°	128.2	129.4	131.9	131.9	140.6	169.2	209.1	230.2	224.0	221.5	185.4
67.5°	98.3	100.8	105.8	105.8	110.7	103.3	115.7	123.2	139.4	169.2	158.0
70°	77.1	78.4	82.1	84.6	84.6	74.7	83.4	90.8	102.0	125.7	124.4
72.5°	59.7	62.2	64.7	64.7	61.0	51.0	59.7	66.0	73.4	87.1	84.6
75°	46.0	46.0	47.3	38.6	29.9	26.1	36.1	43.6	54.8	57.2	47.3
77.5°	12.4	13.7	12.4	11.2	12.4	18.7	23.6	27.4	34.8	34.8	31.1
80°	0.0	1.2	3.7	7.5	12.4	17.4	21.2	23.6	27.4	29.9	28.6
82.5°	0.0	1.2	3.7	7.5	11.2	13.7	18.7	19.9	22.4	26.1	26.1
85°	0.0	1.2	2.5	5.0	7.5	8.7	8.7	7.5	7.5	6.2	5.0
87.5°	0.0	0.0	1.2	2.5	2.5	3.7	3.7	3.7	3.7	3.7	3.7
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°	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1
2.5°	2477.5	2438.9	2380.4	2288.4	2200.0	2142.8	2088.0	2027.0	1993.4	1991.0	1972.3
5°	2507.4	2420.3	2280.9	2122.9	1953.6	1808.0	1661.2	1565.4	1479.5	1432.2	1423.5
7.5°	2523.5	2410.3	2185.1	1920.0	1631.3	1393.7	1229.4	1108.7	1061.4	1026.6	1025.3
10°	2557.1	2392.9	2042.0	1651.3	1294.1	1054.0	940.7	886.0	859.8	849.9	835.0
12.5°	2582.0	2360.5	1895.1	1375.0	1022.9	873.5	823.8	811.3	812.6	817.5	811.3
15°	2616.9	2331.9	1697.3	1128.6	858.6	786.4	786.4	788.9	806.3	808.8	807.6
17.5°	2614.4	2275.9	1493.2	929.5	759.1	749.1	752.8	776.5	787.7	791.4	782.7
20°	2644.2	2223.7	1282.9	793.9	703.1	718.0	742.9	749.1	762.8	765.3	755.3
22.5°	2635.5	2093.0	1087.6	686.9	660.7	689.4	714.3	721.7	718.0	710.5	709.3
25°	2619.4	1981.0	908.4	616.0	629.6	660.7	684.4	670.7	663.2	664.5	665.7
27.5°	2590.7	1839.1	760.3	566.2	587.3	633.4	632.1	627.2	634.6	628.4	634.6
30°	2585.8	1697.3	638.4	521.4	556.2	589.8	592.3	601.0	609.7	598.5	609.7
32.5°	2593.2	1541.7	551.2	494.0	537.6	538.8	566.2	574.9	568.7	543.8	546.3
35°	2650.5	1422.3	487.8	479.1	507.7	508.9	535.1	523.9	496.5	481.6	490.3
37.5°	2771.2	1322.7	457.9	465.4	467.9	484.1	485.3	462.9	465.4	464.1	469.1
40°	2925.5	1246.8	436.8	452.9	450.5	461.7	416.9	429.3	440.5	444.2	446.7
42.5°	3031.2	1192.1	423.1	433.0	428.1	408.1	383.3	395.7	404.4	418.1	420.6
45°	3078.5	1148.5	406.9	398.2	398.2	362.1	352.2	354.6	374.5	389.5	387.0
47.5°	3001.4	1106.2	378.3	352.2	360.9	331.0	319.8	319.8	341.0	359.6	355.9
48°	2971.5	1088.8	379.5	342.2	348.4	326.0	314.8	312.3	336.0	353.4	353.4
50°	2823.4	1024.1	347.2	314.8	302.4	299.9	292.4	294.9	309.8	326.0	326.0
52.5°	2534.7	884.7	293.7	270.0	247.6	262.6	266.3	261.3	268.8	283.7	282.5
55°	2115.4	679.4	235.2	224.0	206.6	222.7	230.2	224.0	216.5	227.7	227.7
57.5°	1355.1	365.8	187.9	190.4	173.0	189.1	195.4	180.4	166.7	175.5	174.2
60°	611.0	219.0	154.3	150.6	139.4	158.0	168.0	150.6	131.9	138.1	144.3
62.5°	229.0	155.5	117.0	114.5	112.0	129.4	134.4	120.7	102.0	105.8	107.0
65°	168.0	136.9	93.3	84.6	89.6	102.0	99.5	85.9	73.4	73.4	75.9
67.5°	143.1	119.5	75.9	66.0	66.0	67.2	62.2	54.8	51.0	53.5	56.0
70°	112.0	94.6	59.7	51.0	46.0	41.1	36.1	34.8	31.1	34.8	33.6
72.5°	72.2	63.5	46.0	38.6	34.8	28.6	23.6	22.4	18.7	17.4	17.4
75°	38.6	38.6	36.1	31.1	27.4	22.4	18.7	14.9	10.0	7.5	7.5
77.5°	27.4	29.9	32.4	29.9	24.9	18.7	14.9	10.0	5.0	2.5	2.5
80°	26.1	29.9	32.4	28.6	24.9	18.7	13.7	7.5	3.7	1.2	1.2
82.5°	23.6	27.4	29.9	26.1	22.4	16.2	12.4	7.5	3.7	1.2	1.2
85°	5.0	6.2	7.5	7.5	8.7	11.2	8.7	6.2	2.5	1.2	1.2
87.5°	3.7	3.7	3.7	3.7	3.7	3.7	2.5	2.5	1.2	1.2	1.2
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)