

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: P528155

Luminaire Tested: **GALN-SA3B-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528155
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-SA3B-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 8307 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

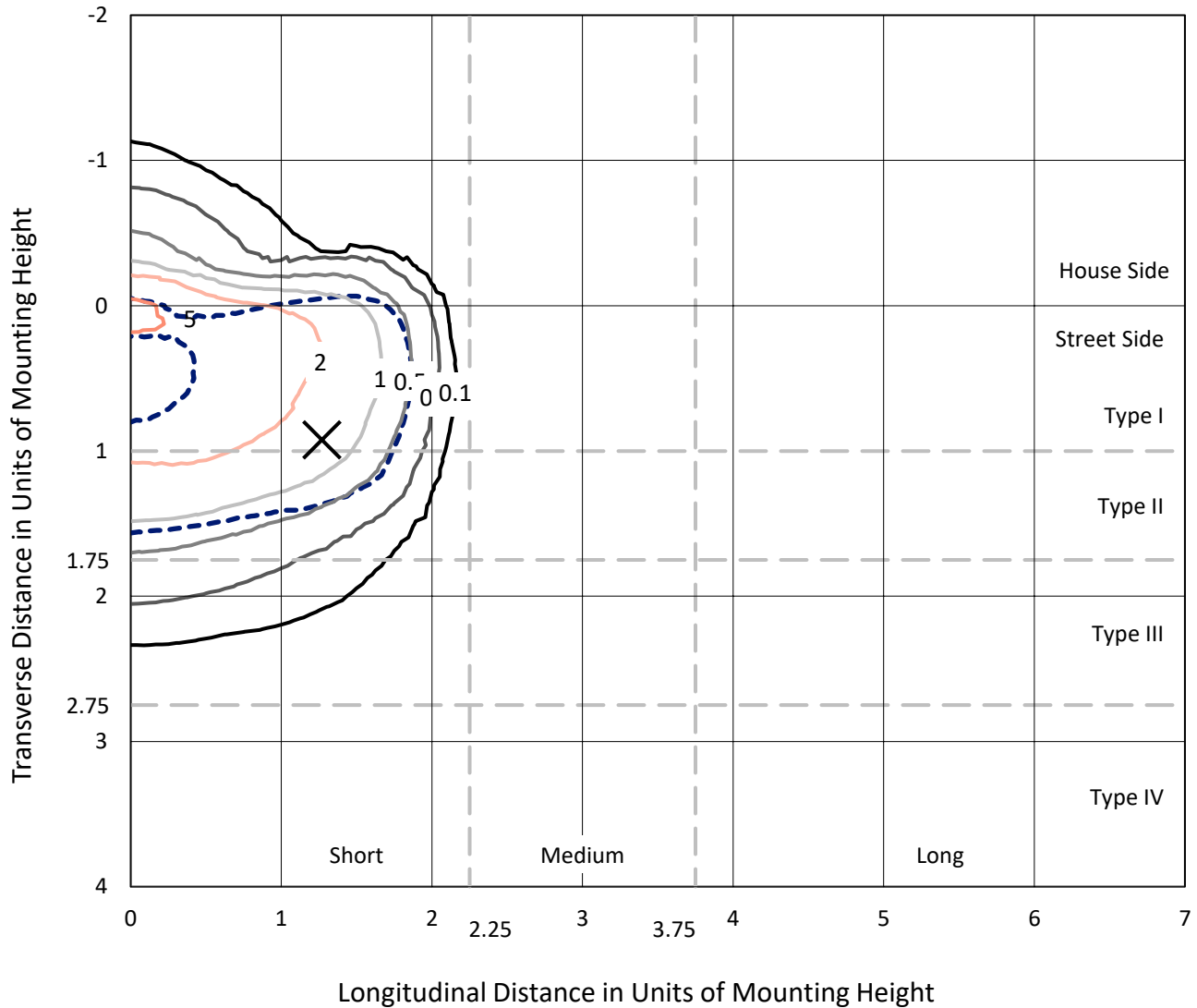
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

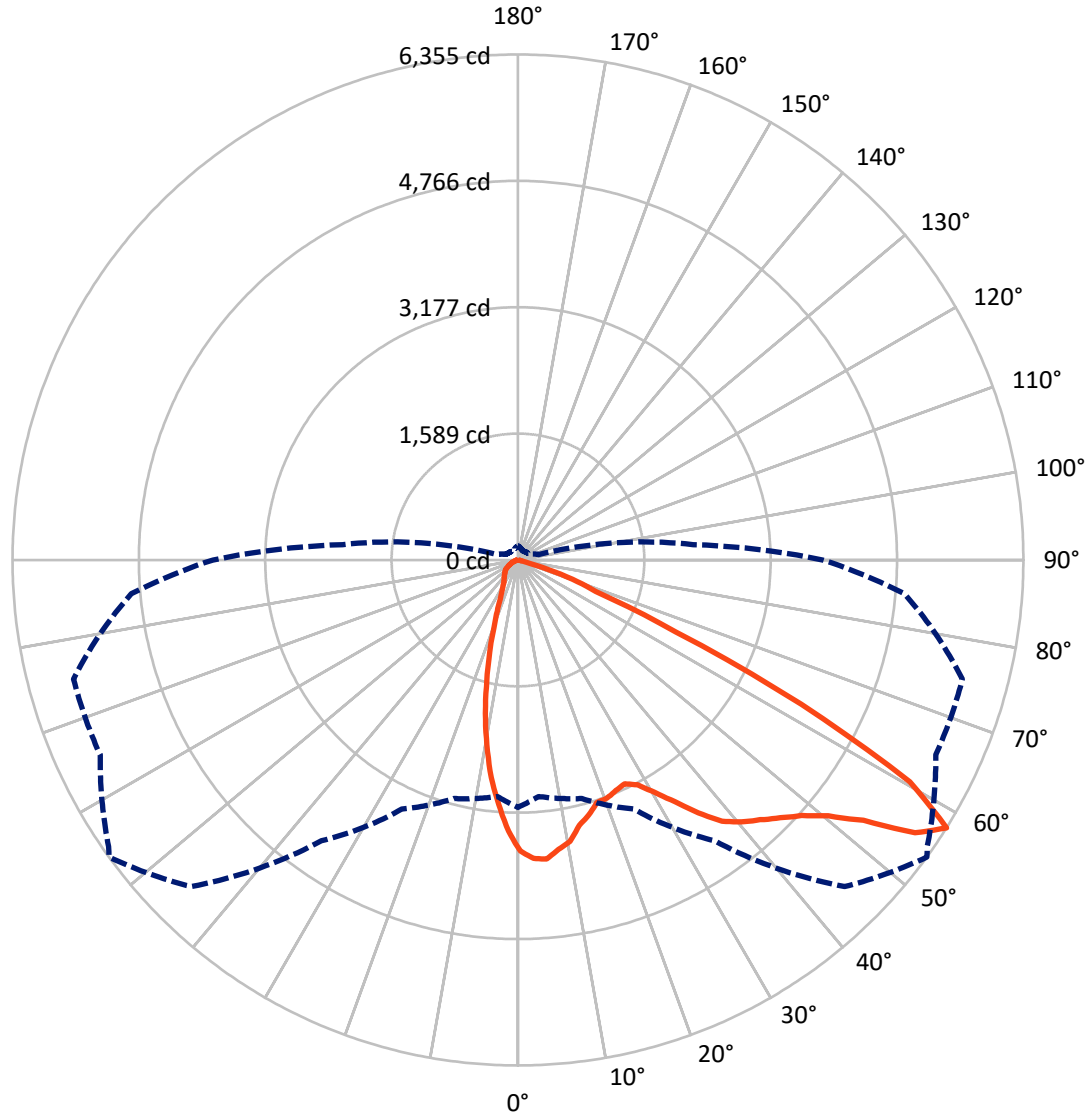
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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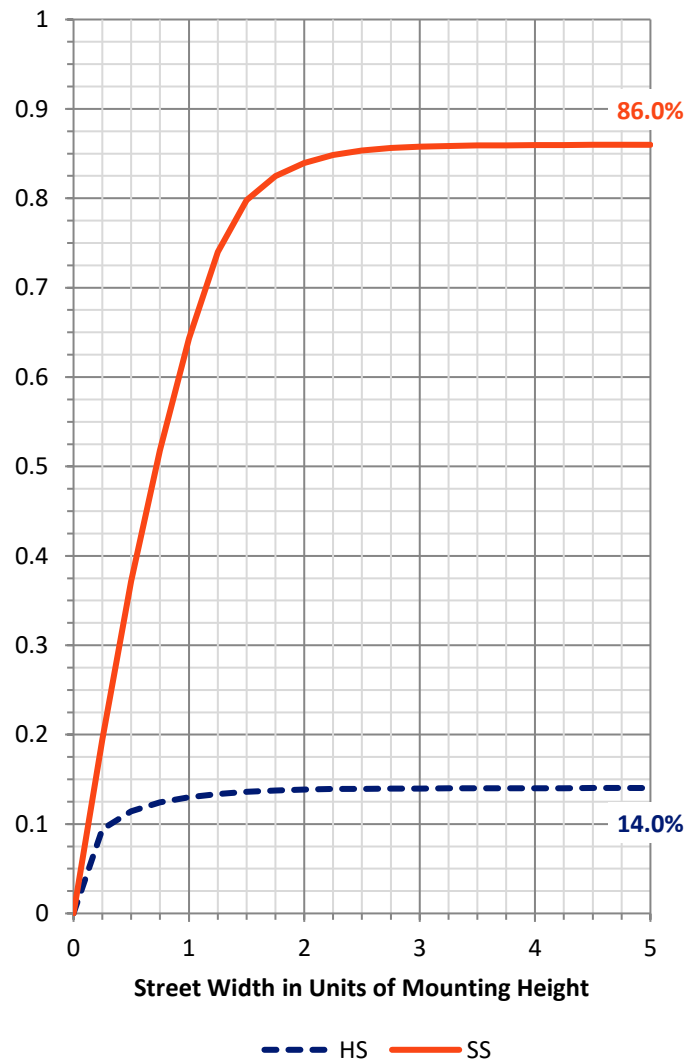
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1173.9	0.0	1173.9
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	7133.1	0.0	7133.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	8307.0	0.0	8307.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.2	3.7
10°-20°	653.8	7.9
20°-30°	866.4	10.4
30°-40°	1259.1	15.2
40°-50°	1867.1	22.5
50°-60°	2334.7	28.1
60°-70°	920.9	11.1
70°-80°	91.7	1.1
80°-90°	7.1	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°	8307.0	100.0
0°-180°	8307.0	100.0

Coefficient of Utilization



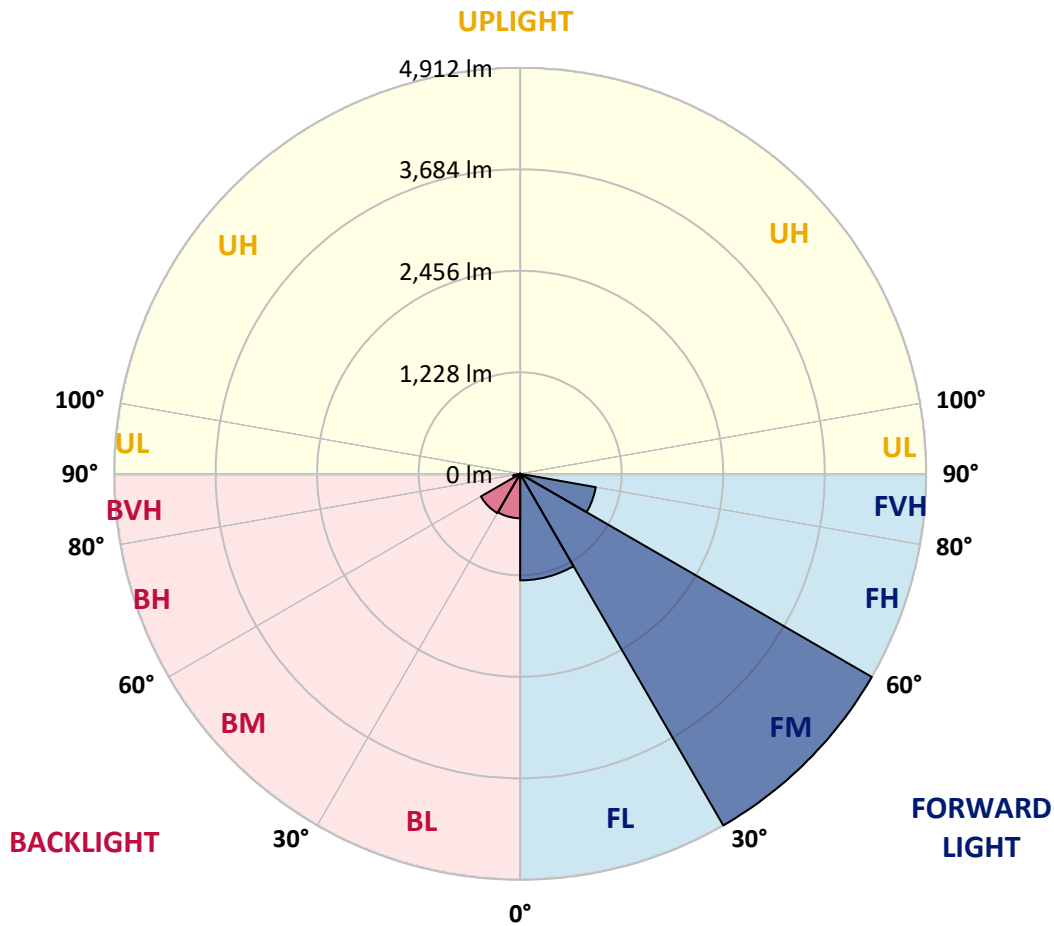
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1289.5	15.5			
FM (30°-60°)	4911.9	59.1			
FH (60°-80°)	928.4	11.2			G1/1800
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	536.9	6.5	B2/1000		
BM (30°-60°)	549.0	6.6	B1/1000		
BH (60°-80°)	84.2	1.0	B0/110		G0/110
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3
2.5°	3872.5	3832.3	3835.4	3821.5	3803.0	3816.9	3756.7	3770.6	3769.0	3687.1	3633.1
5°	3775.2	3818.4	3773.7	3810.7	3775.2	3813.8	3776.7	3748.9	3704.1	3643.9	3543.5
7.5°	3609.9	3568.2	3580.6	3626.9	3634.6	3721.1	3674.8	3710.3	3691.8	3572.8	3435.4
10°	3277.8	3268.5	3330.3	3392.1	3467.8	3560.5	3596.0	3575.9	3562.0	3517.2	3333.4
12.5°	3022.9	3049.2	3047.7	3149.6	3277.8	3330.3	3423.0	3419.9	3497.2	3413.7	3237.6
15°	2780.4	2794.3	2859.2	2922.5	3064.6	3214.5	3328.8	3344.2	3436.9	3378.2	3163.5
17.5°	2632.1	2612.1	2663.0	2738.7	2883.9	3080.1	3206.8	3243.8	3370.5	3358.1	3078.5
20°	2485.4	2485.4	2527.1	2616.7	2749.5	2970.4	3195.9	3185.1	3370.5	3335.0	2987.4
22.5°	2436.0	2460.7	2471.5	2539.5	2697.0	2887.0	3149.6	3169.7	3396.7	3324.1	2947.2
25°	2503.9	2471.5	2474.6	2528.6	2676.9	2846.8	3115.6	3160.4	3444.6	3378.2	2914.8
27.5°	2514.7	2547.2	2556.4	2593.5	2692.4	2859.2	3200.6	3291.7	3563.6	3504.9	2924.1
30°	2609.0	2641.4	2639.9	2703.2	2771.2	2959.6	3390.6	3409.1	3809.2	3664.0	2981.2
32.5°	2723.3	2757.3	2768.1	2842.2	2896.3	3143.4	3622.3	3670.2	4045.5	3914.2	3131.1
35°	2865.4	2853.0	2902.5	2976.6	3092.4	3412.2	3904.9	3985.3	4300.4	4238.6	3285.5
37.5°	3043.0	3027.6	3075.5	3195.9	3353.5	3730.4	4166.0	4218.5	4485.7	4539.8	3571.3
40°	3168.1	3174.3	3319.5	3481.7	3648.5	4033.2	4331.3	4382.3	4615.5	4820.9	3787.6
42.5°	3376.7	3415.3	3589.8	3787.6	3962.1	4260.2	4465.7	4515.1	4675.7	5046.5	4079.5
45°	3679.4	3662.4	3855.5	4076.4	4269.5	4496.6	4624.8	4607.8	4711.3	5270.4	4263.3
47.5°	4068.7	4071.8	4200.0	4388.4	4589.2	4702.0	4802.4	4742.2	4785.4	5506.8	4508.9
50°	4334.4	4357.5	4461.0	4654.1	4754.5	4927.5	5055.7	5018.7	5004.8	5648.9	4663.4
52.5°	4402.3	4471.8	4527.5	4768.4	5003.2	5276.6	5440.4	5519.1	5272.0	5696.8	4859.6
55°	3889.5	3951.3	4147.5	4478.0	5097.4	5829.6	6055.1	6056.7	5621.1	5909.9	4997.0
57.5°	3109.4	2984.3	3104.8	3455.4	4309.7	5806.4	6354.8	6282.2	5795.6	5784.8	4878.1
60°	2150.2	2119.3	2127.0	2266.0	2982.8	4618.6	5662.8	5757.0	5336.9	5014.0	3861.7
62.5°	1703.8	1677.5	1643.5	1628.1	1852.1	2877.7	3994.5	4127.4	3731.9	3251.5	2289.2
65°	1334.6	1319.2	1323.8	1385.6	1384.0	1632.7	2184.2	2130.1	1705.3	1260.5	719.8
67.5°	900.5	923.7	942.3	1129.2	1224.9	1136.9	1055.0	1024.1	554.5	233.2	159.1
70°	506.7	509.7	529.8	705.9	929.9	882.0	727.5	727.5	276.5	85.0	91.1
72.5°	276.5	267.2	248.7	304.3	414.0	420.2	324.4	282.7	81.9	55.6	51.0
75°	134.4	132.8	114.3	94.2	89.6	74.1	57.2	52.5	37.1	35.5	30.9
77.5°	27.8	26.3	13.9	13.9	15.4	17.0	21.6	21.6	26.3	26.3	21.6
80°	0.0	0.0	1.5	6.2	10.8	15.4	18.5	18.5	21.6	21.6	17.0
82.5°	0.0	0.0	1.5	4.6	9.3	13.9	17.0	18.5	21.6	23.2	18.5
85°	0.0	0.0	0.0	3.1	7.7	10.8	9.3	9.3	7.7	6.2	3.1
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3
2.5°	3605.3	3602.2	3531.1	3491.0	3418.4	3355.0	3304.1	3267.0	3267.0	3243.8	3222.2
5°	3503.3	3477.1	3325.7	3228.4	3090.9	2989.0	2919.4	2865.4	2780.4	2803.6	2712.5
7.5°	3376.7	3310.2	3109.4	2961.2	2771.2	2626.0	2477.7	2346.4	2219.7	2162.6	2193.4
10°	3240.7	3124.9	2854.6	2619.8	2383.4	2117.8	1944.8	1734.7	1604.9	1597.2	1563.2
12.5°	3097.1	2965.8	2636.8	2312.4	2001.9	1682.2	1418.0	1221.8	1133.8	1036.5	1055.0
15°	2989.0	2794.3	2394.3	2003.4	1591.0	1268.2	1002.5	851.1	767.7	744.5	736.8
17.5°	2871.6	2663.0	2147.1	1674.4	1248.1	912.9	721.4	648.8	616.3	616.3	611.7
20°	2749.5	2514.7	1901.5	1368.6	936.1	681.2	577.7	554.5	553.0	551.5	551.5
22.5°	2669.2	2344.8	1679.1	1087.5	705.9	545.3	502.0	492.8	498.9	517.5	517.5
25°	2584.2	2181.1	1433.5	838.8	546.8	468.0	443.3	449.5	464.9	481.9	475.8
27.5°	2497.7	2074.5	1201.8	658.0	448.0	409.3	400.1	414.0	431.0	446.4	441.8
30°	2477.7	1960.2	982.4	498.9	384.6	356.8	363.0	375.4	392.3	398.5	404.7
32.5°	2508.6	1870.6	804.8	409.3	335.2	327.5	327.5	333.7	344.5	358.4	353.7
35°	2596.6	1819.6	636.4	355.3	307.4	299.7	298.1	304.3	310.5	315.1	310.5
37.5°	2731.0	1779.5	520.6	315.1	288.9	276.5	273.4	271.9	278.0	279.6	282.7
40°	2902.5	1801.1	441.8	290.4	270.3	256.4	247.1	247.1	247.1	251.8	253.3
42.5°	3087.8	1830.4	381.5	276.5	253.3	236.3	227.1	224.0	227.1	233.2	231.7
45°	3282.4	1887.6	342.9	254.9	237.9	216.3	203.9	200.8	208.5	220.9	219.3
47.5°	3464.7	1969.5	313.6	241.0	222.4	202.4	186.9	183.8	197.7	214.7	216.3
50°	3647.0	2111.6	302.8	230.2	211.6	188.5	174.5	171.5	186.9	208.5	213.2
52.5°	3857.1	2264.5	295.0	216.3	199.3	177.6	162.2	159.1	176.1	203.9	205.4
55°	3994.5	2394.3	288.9	191.5	176.1	160.6	148.3	146.7	165.3	190.0	196.2
57.5°	3833.9	2213.5	267.2	166.8	149.8	142.1	131.3	131.3	146.7	169.9	174.5
60°	2907.1	1456.6	190.0	134.4	126.7	122.0	117.4	117.4	129.8	146.7	148.3
62.5°	1702.2	784.7	122.0	108.1	108.1	103.5	95.8	95.8	108.1	117.4	118.9
65°	505.1	251.8	98.9	92.7	91.1	83.4	75.7	74.1	83.4	88.0	86.5
67.5°	145.2	115.9	81.9	77.2	75.7	63.3	58.7	57.2	58.7	55.6	54.1
70°	86.5	78.8	63.3	64.9	57.2	46.3	41.7	40.2	37.1	32.4	29.3
72.5°	47.9	47.9	46.3	49.4	40.2	30.9	26.3	21.6	17.0	13.9	12.4
75°	29.3	30.9	32.4	34.0	26.3	20.1	17.0	10.8	6.2	3.1	3.1
77.5°	20.1	21.6	23.2	24.7	21.6	18.5	13.9	7.7	1.5	0.0	0.0
80°	15.4	17.0	20.1	21.6	23.2	24.7	18.5	7.7	1.5	0.0	0.0
82.5°	17.0	18.5	23.2	21.6	21.6	21.6	17.0	7.7	1.5	0.0	0.0
85°	3.1	4.6	7.7	7.7	10.8	13.9	10.8	3.1	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)