

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: P528777

Luminaire Tested: **GALN-SA3D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9909 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

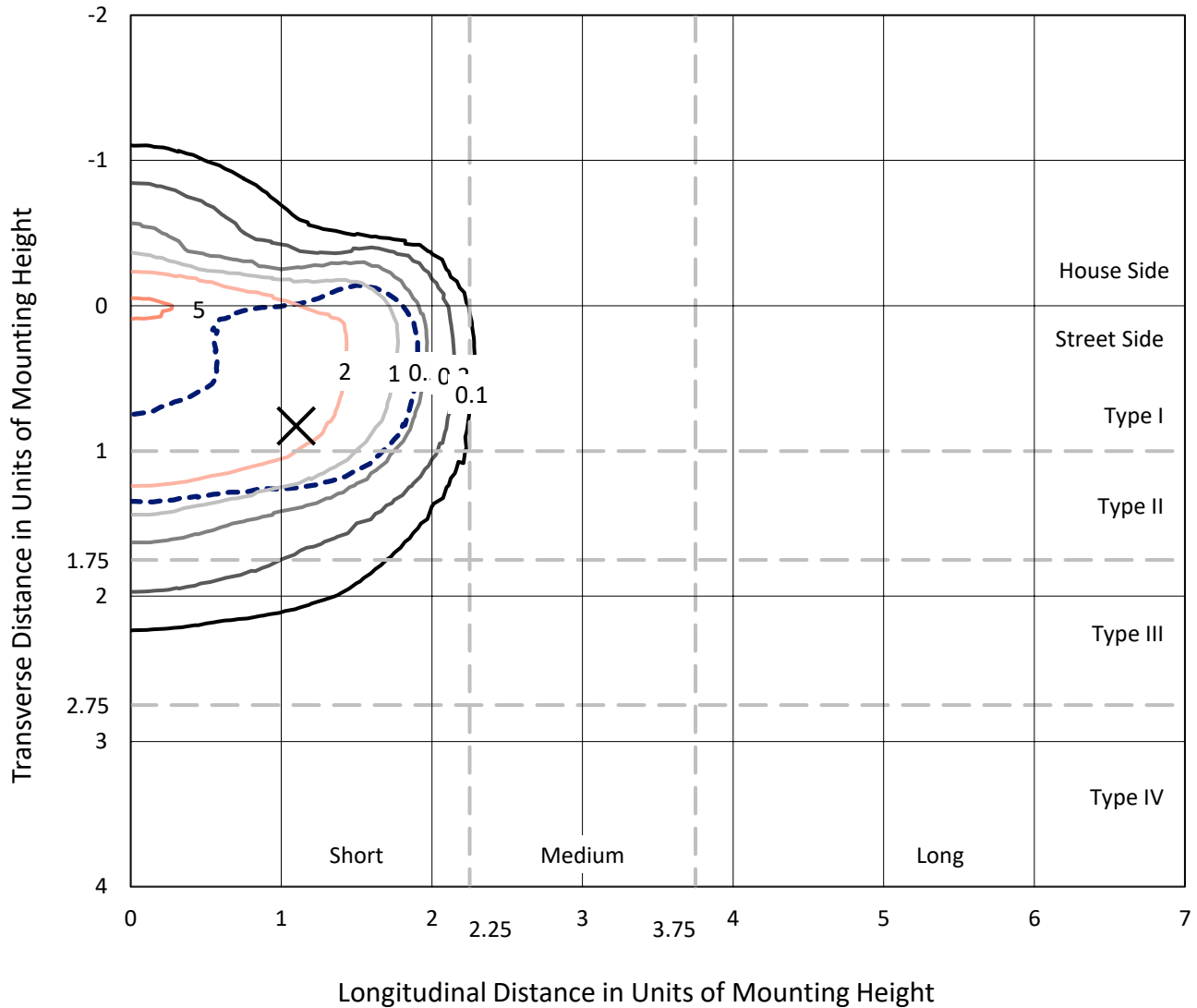
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

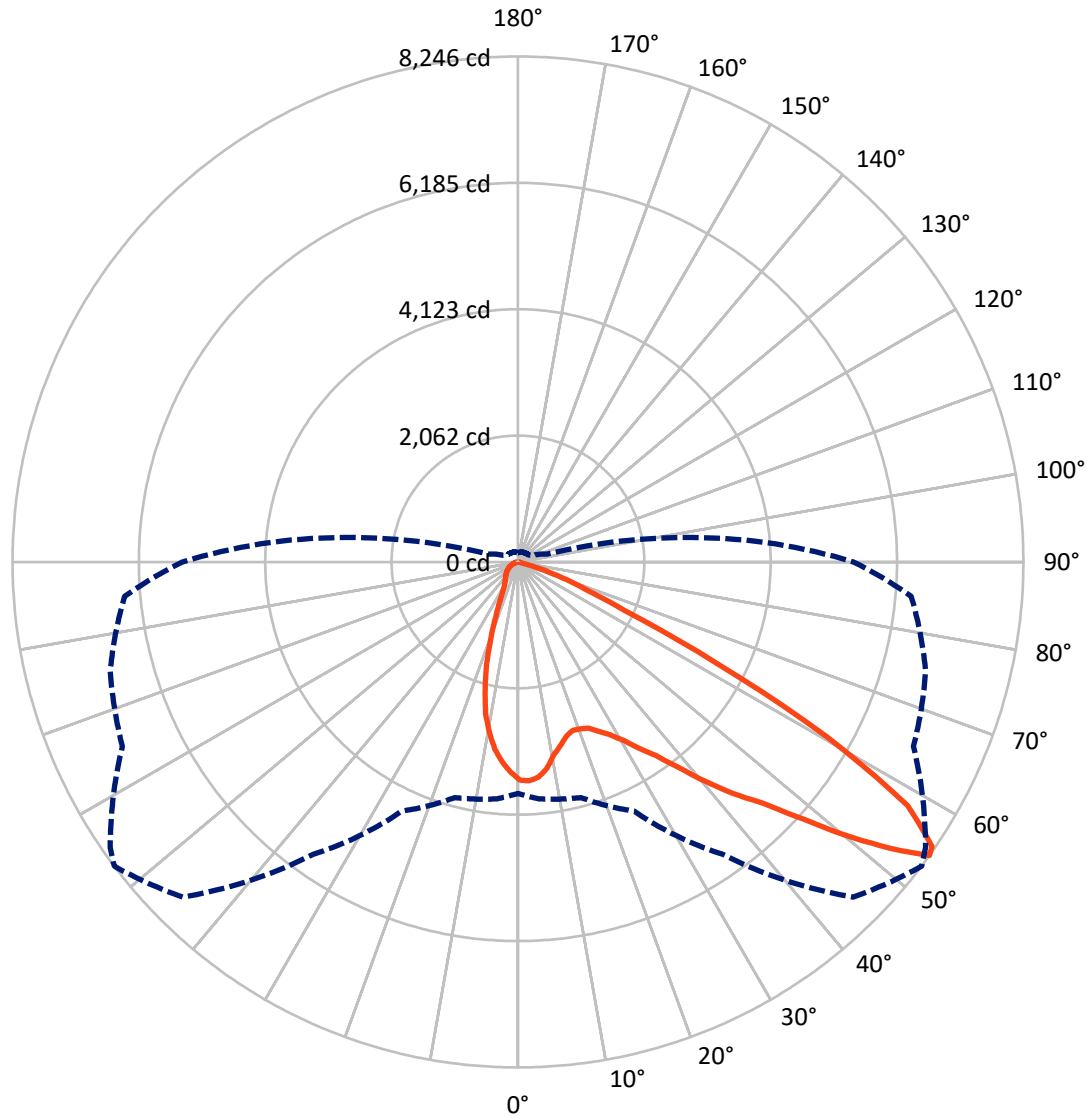
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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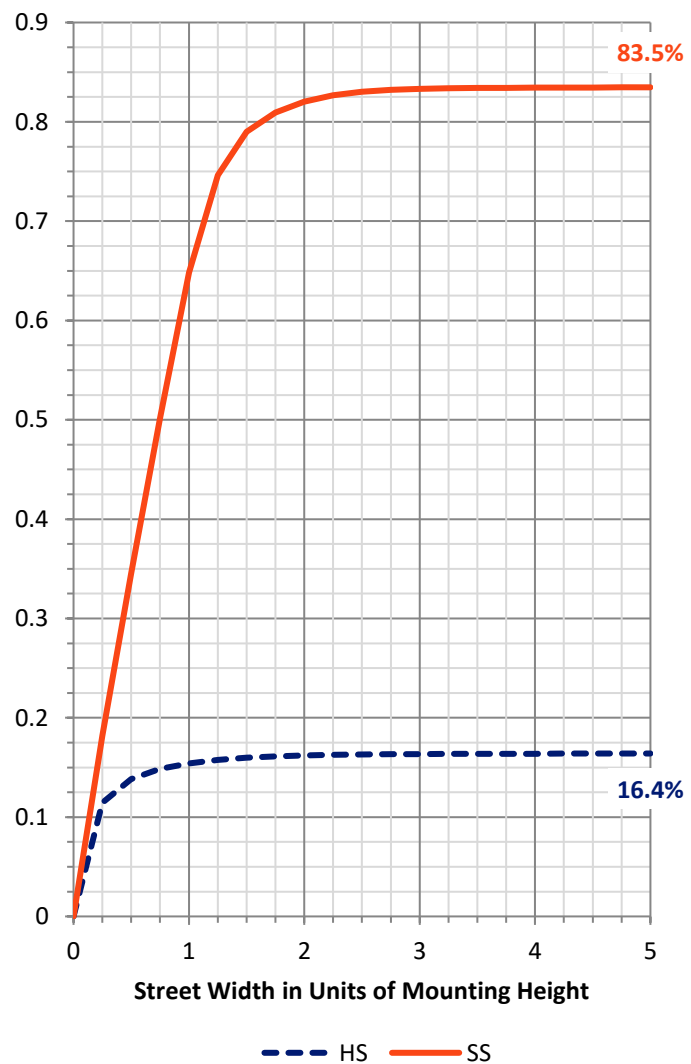
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1639.5	0.0	1639.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8269.5	0.0	8269.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	9909.0	0.0	9909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	3.1
10°-20°	700.1	7.1
20°-30°	995.0	10.0
30°-40°	1535.6	15.5
40°-50°	2407.6	24.3
50°-60°	2796.8	28.2
60°-70°	1056.8	10.7
70°-80°	100.5	1.0
80°-90°	11.3	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°	9909.0	100.0
0°-180°	9909.0	100.0

Coefficient of Utilization



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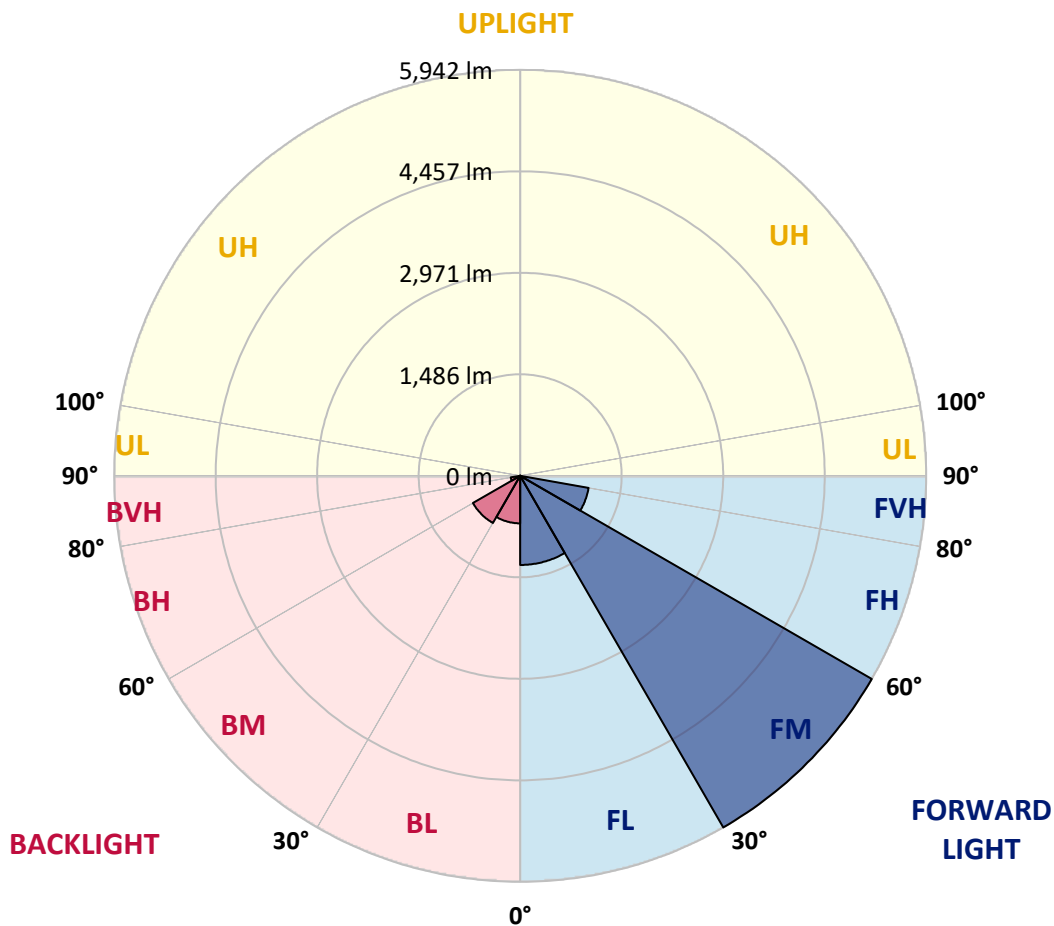
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.8	13.2			
FM (30°-60°)	5942.1	60.0			
FH (60°-80°)	1016.8	10.3			G1/1800
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	695.7	7.0	B2/1000		
BM (30°-60°)	797.8	8.1	B1/1000		
BH (60°-80°)	140.5	1.4	B1/500		G1/500
BVH (80°-90°)	5.5	0.1			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°	53°	55°	65°	75°	85°
0°	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1
2.5°	3540.7	3509.3	3540.7	3544.4	3566.5	3586.8	3573.9	3603.5	3586.8	3568.4	3562.8
5°	3254.6	3297.0	3298.9	3365.3	3350.5	3472.4	3525.9	3511.1	3601.6	3596.1	3583.1
7.5°	2998.0	2981.3	3003.5	3081.0	3178.9	3319.2	3396.7	3394.8	3524.1	3616.4	3607.1
10°	2759.8	2758.0	2804.1	2865.0	2948.1	3095.8	3202.9	3256.4	3457.6	3597.9	3618.2
12.5°	2599.2	2591.8	2641.7	2691.5	2822.6	2937.0	3073.6	3099.5	3330.2	3533.3	3566.5
15°	2494.0	2510.6	2514.3	2610.3	2693.4	2844.7	2951.8	3005.3	3271.2	3481.6	3609.0
17.5°	2475.5	2497.7	2499.5	2578.9	2667.5	2794.9	2889.0	2961.0	3221.3	3507.5	3610.8
20°	2512.4	2499.5	2510.6	2560.4	2647.2	2769.0	2905.7	2929.6	3204.7	3520.4	3631.1
22.5°	2617.7	2614.0	2586.3	2626.9	2687.8	2815.2	2944.4	2981.3	3252.7	3586.8	3647.8
25°	2734.0	2754.3	2728.4	2722.9	2765.4	2890.9	3062.6	3110.6	3413.3	3706.8	3699.4
27.5°	2951.8	2931.5	2931.5	2905.7	2894.6	2955.5	3189.9	3269.3	3592.4	3861.9	3758.5
30°	3160.4	3182.6	3165.9	3175.2	3101.3	3095.8	3370.9	3468.7	3909.9	4098.2	3884.0
32.5°	3490.8	3461.3	3489.0	3465.0	3367.2	3267.5	3616.4	3717.9	4293.9	4369.6	4072.3
35°	3765.9	3753.0	3871.1	3867.4	3708.7	3610.8	3876.7	4028.0	4561.5	4694.5	4293.9
37.5°	4157.3	4133.3	4268.0	4332.6	4190.5	4044.7	4249.6	4424.9	4810.8	4954.7	4520.9
40°	4559.7	4620.6	4801.5	4908.6	4757.2	4563.4	4705.5	4759.1	4976.9	5124.6	4676.0
42.5°	5069.2	5157.8	5342.4	5434.7	5421.8	5211.3	5168.9	5167.0	5096.9	5076.6	4790.4
45°	5558.4	5525.2	5809.5	6010.7	6173.1	6112.2	5615.6	5560.2	5287.0	5148.6	4820.0
47.5°	5772.5	5761.5	5955.3	6313.4	6867.2	6942.9	6265.4	6051.3	5608.2	5451.3	4980.6
50°	5495.6	5552.9	5744.8	6141.7	6990.9	7568.7	7062.9	6774.9	5983.0	5820.5	5360.9
52.5°	4591.1	4629.8	4812.6	5316.6	6570.0	7937.9	7827.2	7661.0	6671.6	6402.0	6023.6
54°	3775.1	3878.5	3978.2	4484.0	5820.5	7733.0	8246.2	8118.8	7120.1	6885.7	6440.8
55°	3287.8	3348.7	3420.7	3924.7	5301.8	7386.0	8198.2	8209.3	7421.0	7037.1	6721.4
57.5°	2401.7	2444.1	2370.3	2593.7	3640.4	5997.8	7498.6	7797.6	7827.2	7264.1	6893.1
60°	1835.0	1853.4	1770.3	1805.4	2263.2	4116.6	5800.2	6160.2	7061.1	6348.5	5839.0
62.5°	1423.3	1427.0	1425.1	1486.1	1559.9	2422.0	3627.4	3946.8	4868.0	4508.0	3965.3
65°	1048.5	1031.9	1061.5	1246.1	1331.0	1523.0	1910.6	2143.2	2645.4	2233.7	1596.8
67.5°	679.3	684.9	714.4	926.7	1140.8	1168.5	1175.9	1157.5	1159.3	638.7	400.6
70°	408.0	417.2	408.0	524.3	815.9	838.1	766.1	747.6	583.3	151.4	149.5
72.5°	241.8	228.9	204.9	225.2	339.7	406.1	365.5	363.7	228.9	88.6	88.6
75°	101.5	92.3	75.7	68.3	90.5	86.8	86.8	77.5	60.9	59.1	55.4
77.5°	20.3	20.3	14.8	16.6	22.2	25.8	31.4	31.4	36.9	36.9	35.1
80°	0.0	1.8	5.5	11.1	16.6	24.0	27.7	27.7	31.4	31.4	25.8
82.5°	0.0	1.8	5.5	11.1	14.8	22.2	27.7	27.7	31.4	33.2	27.7
85°	0.0	1.8	5.5	9.2	14.8	18.5	18.5	16.6	12.9	11.1	7.4
87.5°	0.0	0.0	1.8	3.7	1.8	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°	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1	3559.1
2.5°	3575.8	3573.9	3529.6	3457.6	3441.0	3380.1	3372.7	3335.8	3356.1	3287.8	3280.4
5°	3546.2	3524.1	3470.5	3424.4	3289.6	3193.6	3117.9	3025.6	2972.1	2981.3	2946.3
7.5°	3588.7	3531.5	3437.3	3276.7	3112.4	2944.4	2854.0	2665.7	2597.4	2495.8	2481.1
10°	3544.4	3501.9	3356.1	3090.3	2863.2	2621.4	2409.1	2200.5	2041.7	1973.4	1958.6
12.5°	3540.7	3466.8	3223.2	2927.8	2599.2	2252.2	1943.9	1683.6	1526.7	1438.1	1417.8
15°	3483.5	3394.8	3073.6	2676.7	2222.6	1790.6	1454.7	1203.6	1083.6	1031.9	1046.7
17.5°	3489.0	3356.1	2924.1	2410.9	1851.6	1314.4	993.2	863.9	832.6	845.5	845.5
20°	3483.5	3269.3	2743.2	2104.5	1417.8	911.9	729.2	683.0	703.3	744.0	734.7
22.5°	3453.9	3228.7	2577.1	1781.4	1043.0	675.6	585.2	587.0	618.4	668.3	679.3
25°	3476.1	3138.3	2366.6	1454.7	760.6	539.0	507.7	520.6	553.8	590.7	598.1
27.5°	3459.5	3073.6	2146.9	1129.8	555.7	463.4	461.5	476.3	491.0	518.7	518.7
30°	3477.9	3014.6	1930.9	839.9	457.8	424.6	417.2	428.3	443.0	448.6	446.7
32.5°	3546.2	2970.3	1681.7	627.7	404.3	387.7	387.7	387.7	385.8	393.2	395.1
35°	3695.8	2977.6	1462.1	485.5	369.2	356.3	350.7	343.4	339.7	343.4	345.2
37.5°	3858.2	2974.0	1235.0	413.5	343.4	332.3	319.4	308.3	306.4	310.1	304.6
40°	3930.2	3009.0	1024.5	371.1	319.4	306.4	286.1	276.9	278.8	282.4	278.8
42.5°	4028.0	3020.1	887.9	337.8	297.2	276.9	264.0	252.9	251.1	256.6	254.8
45°	4026.2	2957.3	744.0	319.4	276.9	254.8	238.1	228.9	228.9	232.6	234.4
47.5°	4144.3	2948.1	638.7	302.7	262.1	240.0	219.7	212.3	210.4	210.4	206.8
50°	4419.4	3077.3	557.5	284.3	243.7	223.4	206.8	197.5	190.1	186.4	184.6
52.5°	4956.6	3479.8	494.7	262.1	223.4	206.8	192.0	184.6	175.4	166.1	164.3
54°	5477.2	3895.1	491.0	243.7	206.8	195.7	182.8	179.1	168.0	155.1	151.4
55°	5711.6	4137.0	504.0	228.9	195.7	188.3	177.2	173.5	162.5	147.7	145.8
57.5°	5905.4	4231.1	496.6	190.1	177.2	175.4	166.1	160.6	147.7	127.4	123.7
60°	4753.5	3199.2	356.3	168.0	162.5	158.8	151.4	147.7	131.1	108.9	107.1
62.5°	3003.5	1840.5	227.1	147.7	142.1	136.6	127.4	123.7	108.9	86.8	81.2
65°	1279.3	762.4	153.2	131.1	121.8	112.6	105.2	99.7	86.8	64.6	62.8
67.5°	332.3	271.4	127.4	114.5	101.5	88.6	83.1	73.8	59.1	44.3	42.5
70°	149.5	136.6	107.1	96.0	81.2	68.3	60.9	51.7	38.8	29.5	27.7
72.5°	88.6	86.8	81.2	72.0	60.9	51.7	44.3	35.1	25.8	16.6	16.6
75°	55.4	53.5	55.4	49.8	42.5	38.8	33.2	24.0	14.8	7.4	7.4
77.5°	33.2	33.2	33.2	31.4	29.5	29.5	24.0	14.8	7.4	1.8	1.8
80°	25.8	25.8	27.7	25.8	25.8	25.8	20.3	11.1	3.7	0.0	0.0
82.5°	25.8	27.7	31.4	29.5	25.8	22.2	18.5	11.1	3.7	0.0	0.0
85°	7.4	5.5	9.2	12.9	18.5	16.6	12.9	9.2	3.7	0.0	0.0
87.5°	3.7	3.7	3.7	3.7	1.8	1.8	1.8	1.8	1.8	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)