

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: P528453

Luminaire Tested: **GALN-SA3C-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528453
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-SA3C-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 11890 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

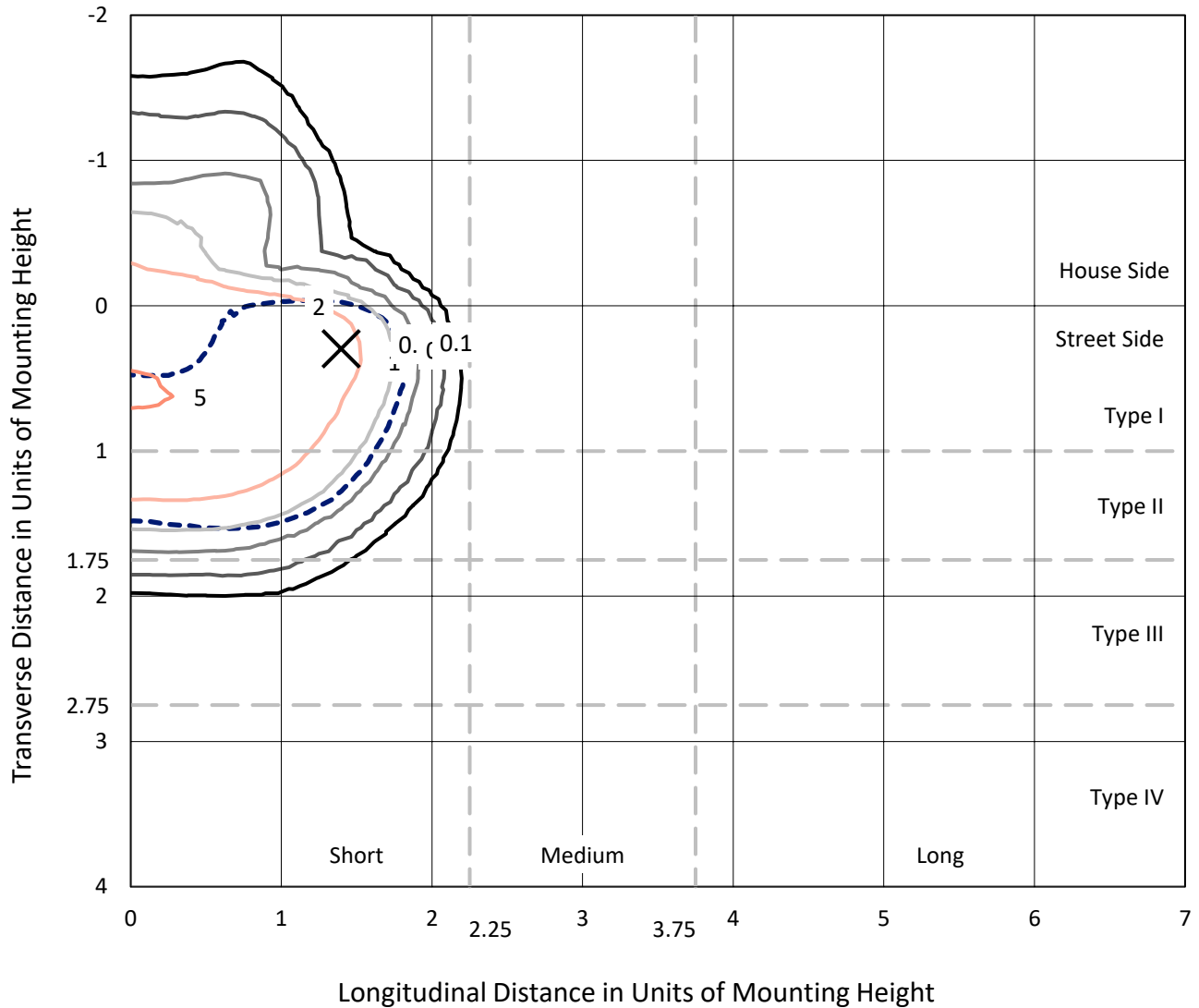
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

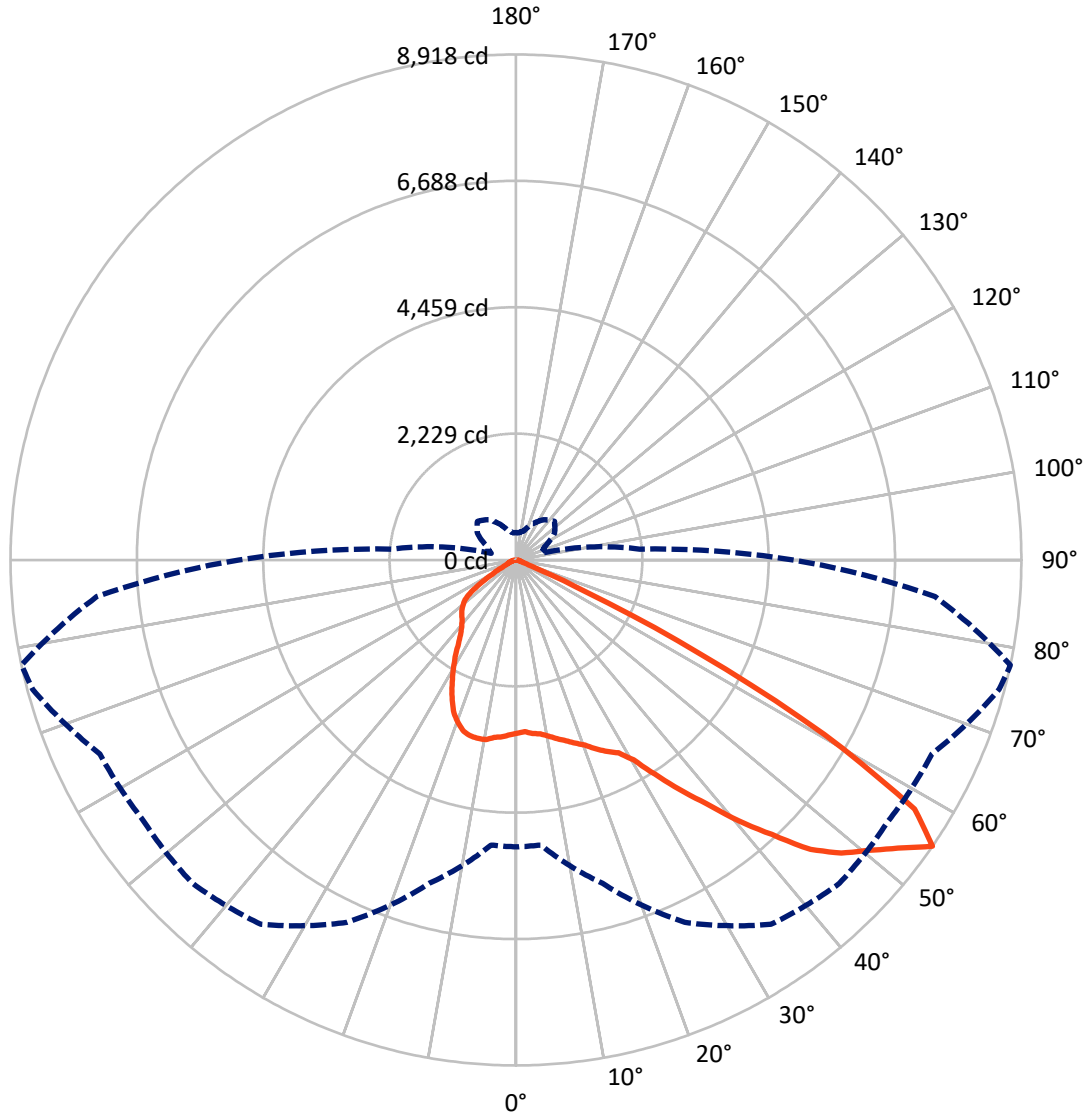
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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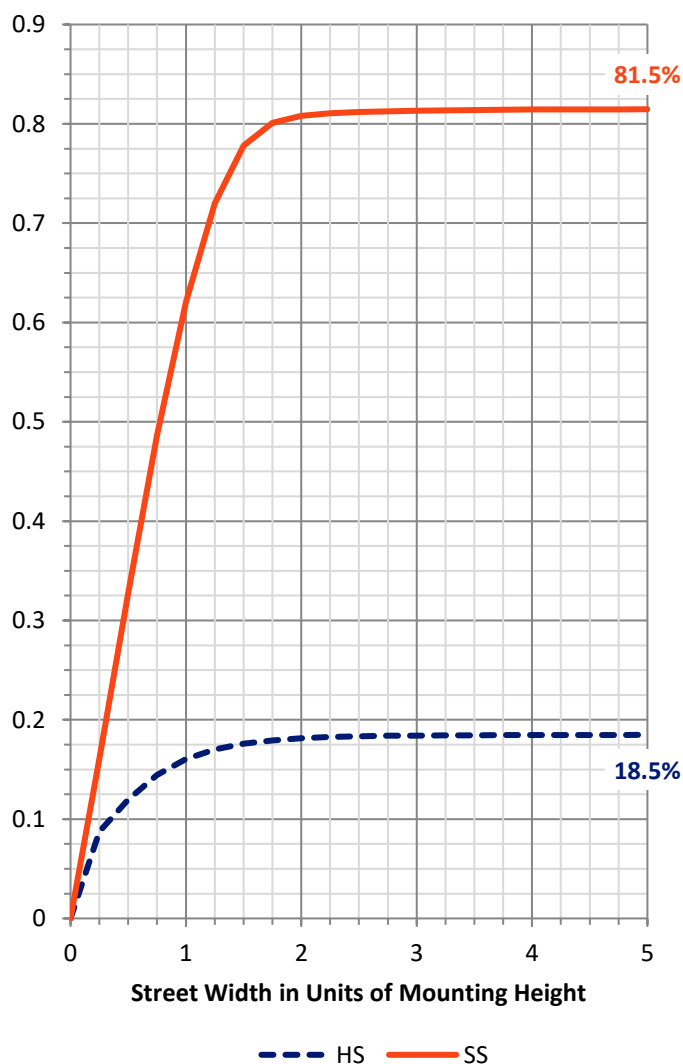
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2208.4	0.0	2208.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	9681.6	0.0	9681.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	11890.0	0.0	11890.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.6	2.3
10°-20°	721.4	6.1
20°-30°	1264.5	10.6
30°-40°	2084.9	17.5
40°-50°	3033.9	25.5
50°-60°	3437.7	28.9
60°-70°	982.9	8.3
70°-80°	76.3	0.6
80°-90°	15.9	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°	11890.0	100.0
0°-180°	11890.0	100.0

Coefficient of Utilization



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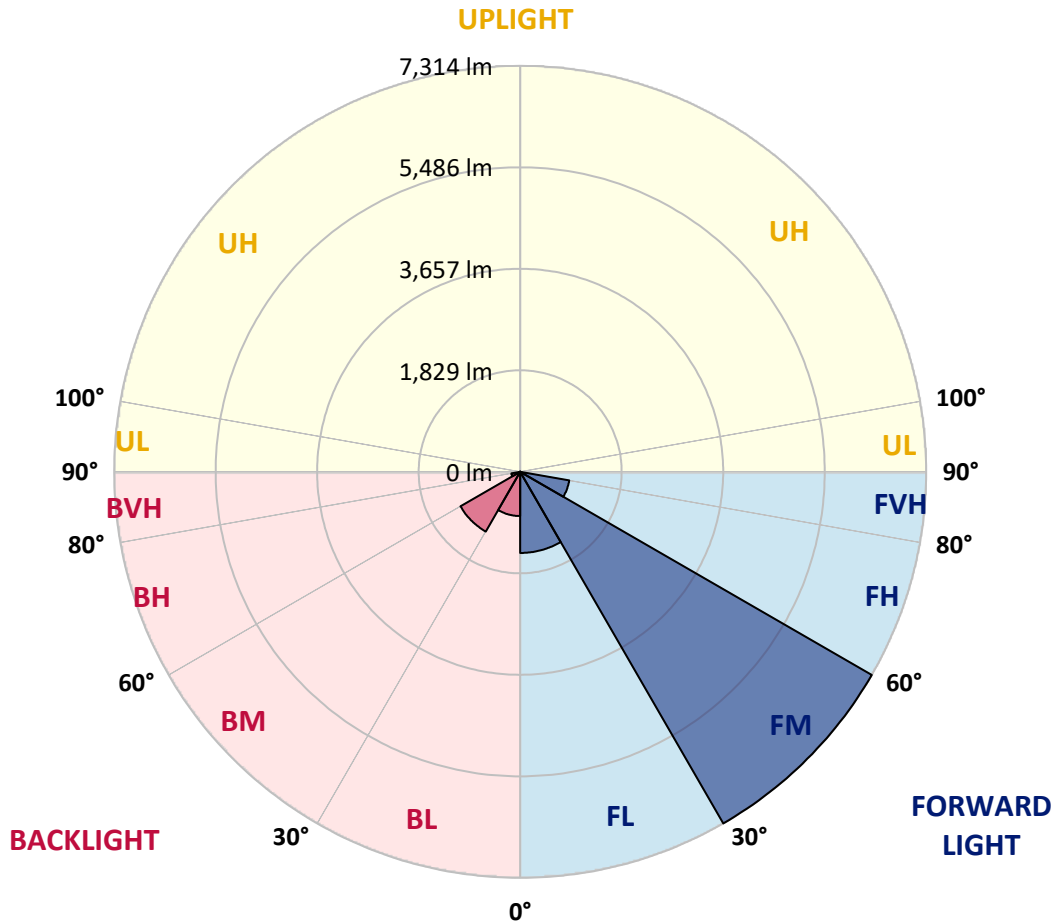
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1461.6	12.3			
FM (30°-60°)	7314.2	61.5			
FH (60°-80°)	898.0	7.6			G1/1800
FVH (80°-90°)	7.7	0.1			G0/10
BL (0°-30°)	796.8	6.7	B2/1000		
BM (30°-60°)	1242.3	10.4	B2/2500		
BH (60°-80°)	161.2	1.4	B1/500		G1/500
BVH (80°-90°)	8.1	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°	55°	65°	75°	78°	85°
0°	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9
2.5°	2874.1	2901.7	2906.0	2940.0	2937.9	2995.3	3012.3	3014.4	3052.7	3033.5	3082.4
5°	2793.3	2778.4	2772.1	2831.6	2848.6	2899.6	2942.1	2967.6	3046.3	3073.9	3125.0
7.5°	2721.0	2721.0	2725.3	2778.4	2772.1	2838.0	2882.6	2961.3	3076.1	3099.4	3161.1
10°	2650.9	2625.4	2657.3	2712.5	2759.3	2789.1	2882.6	2957.0	3090.9	3159.0	3244.0
12.5°	2614.8	2627.5	2631.8	2672.2	2723.2	2812.5	2863.5	2986.8	3197.2	3237.6	3329.0
15°	2842.2	2816.7	2755.1	2718.9	2761.4	2804.0	2931.5	3056.9	3252.5	3309.9	3411.9
17.5°	3105.8	3084.6	3033.5	2935.8	2840.1	2918.7	3018.7	3133.5	3312.0	3397.1	3548.0
20°	3450.2	3416.2	3365.2	3173.8	3090.9	3005.9	3112.2	3248.2	3409.8	3486.3	3641.5
22.5°	3860.5	3860.5	3745.7	3514.0	3341.8	3261.0	3305.6	3384.3	3518.2	3622.4	3775.5
25°	4287.8	4275.0	4170.9	3930.6	3639.4	3543.7	3594.8	3650.0	3686.2	3743.6	3845.6
27.5°	4776.7	4702.3	4570.5	4304.8	4047.6	3862.6	3917.9	3869.0	3824.3	3854.1	4000.8
30°	5108.3	5155.1	4987.2	4732.1	4489.7	4283.5	4294.2	4251.6	4047.6	4090.1	4177.2
32.5°	5452.7	5482.5	5388.9	5248.6	5006.3	4766.1	4678.9	4642.8	4489.7	4508.9	4423.8
35°	5739.7	5797.1	5714.2	5652.5	5582.4	5388.9	5148.7	5265.7	5019.1	4972.3	4751.2
37.5°	6003.3	5986.3	6084.1	6020.3	6005.4	5869.4	5605.8	5629.2	5463.4	5452.7	5197.6
40°	6239.3	6243.5	6377.5	6407.2	6347.7	6105.3	5722.7	5907.6	6041.6	6054.3	5727.0
42.5°	6434.9	6492.2	6607.0	6847.3	6758.0	6354.1	5843.9	6045.8	6543.3	6621.9	6228.6
45°	6604.9	6721.8	6864.3	7079.0	7028.0	6707.0	6145.7	6330.7	7079.0	7285.2	6700.6
47.5°	6615.5	6768.6	6923.8	7242.7	7306.4	6896.2	6458.2	6781.4	7504.1	7727.3	7045.0
50°	6573.0	6653.8	6964.2	7310.7	7455.2	7204.4	6896.2	7159.8	7916.5	8056.8	7219.3
52.5°	6069.2	6130.9	6753.7	7374.5	7723.1	7553.0	7476.5	7687.0	8337.5	8441.6	7383.0
55°	5059.4	5048.8	5905.5	7053.5	7846.4	8069.6	8022.8	8097.2	8824.3	8917.8	7423.4
57.5°	3460.8	3654.3	4394.1	5873.6	7091.7	7948.4	7997.3	7874.0	8256.7	8292.8	6471.0
60°	1866.5	1947.2	2542.5	3920.0	5399.6	6477.4	6604.9	6381.7	6351.9	6249.9	4619.4
62.5°	741.9	782.3	1120.3	1940.9	2942.1	3937.0	4211.2	4119.8	3924.3	3656.4	2391.5
65°	352.9	378.4	557.0	907.7	1305.3	1641.1	1915.4	2000.4	1475.3	1328.6	788.7
67.5°	240.2	259.3	406.0	518.7	465.6	486.8	633.5	588.9	346.5	295.5	219.0
70°	182.8	195.6	325.3	352.9	208.3	146.7	163.7	153.1	142.4	144.6	142.4
72.5°	129.7	140.3	238.1	208.3	91.4	68.0	87.2	104.2	104.2	104.2	102.0
75°	78.7	89.3	138.2	80.8	36.1	36.1	55.3	70.2	74.4	76.5	72.3
77.5°	40.4	51.0	46.8	23.4	23.4	27.6	40.4	48.9	53.1	53.1	51.0
80°	8.5	8.5	8.5	12.8	23.4	29.8	40.4	44.6	51.0	51.0	46.8
82.5°	0.0	2.1	6.4	12.8	21.3	27.6	38.3	44.6	51.0	53.1	48.9
85°	0.0	2.1	4.3	8.5	14.9	17.0	14.9	12.8	12.8	12.8	12.8
87.5°	0.0	0.0	2.1	2.1	2.1	4.3	4.3	4.3	4.3	4.3	4.3
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°	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9
2.5°	3086.7	3093.1	3082.4	3080.3	3071.8	3097.3	3035.7	3020.8	3059.1	3022.9	3031.4
5°	3127.1	3142.0	3122.8	3090.9	3044.2	2971.9	2910.2	2829.5	2791.2	2763.6	2759.3
7.5°	3156.8	3167.5	3148.3	3046.3	2906.0	2723.2	2587.1	2487.2	2408.6	2385.2	2346.9
10°	3278.0	3280.1	3184.5	2959.1	2684.9	2444.7	2236.4	2083.3	2004.6	1955.8	1934.5
12.5°	3358.8	3354.5	3161.1	2786.9	2421.3	2102.4	1864.3	1679.4	1607.1	1583.7	1568.9
15°	3460.8	3437.4	3105.8	2610.5	2081.2	1736.8	1522.1	1394.5	1388.2	1373.3	1388.2
17.5°	3541.6	3475.7	3025.0	2289.5	1755.9	1430.7	1290.4	1298.9	1315.9	1330.8	1332.9
20°	3673.4	3537.4	2840.1	2008.9	1454.1	1226.6	1224.5	1262.7	1305.3	1322.3	1339.3
22.5°	3773.3	3562.9	2642.4	1709.2	1207.5	1143.7	1179.8	1237.2	1269.1	1286.1	1311.6
25°	3809.5	3492.7	2378.8	1409.4	1088.4	1105.4	1160.7	1199.0	1239.4	1258.5	1247.9
27.5°	3845.6	3456.6	2064.2	1160.7	1024.6	1079.9	1126.7	1164.9	1177.7	1203.2	1220.2
30°	3932.8	3331.2	1781.4	1003.4	992.8	1062.9	1096.9	1109.7	1143.7	1158.6	1158.6
32.5°	4002.9	3282.3	1481.7	929.0	988.5	1071.4	1075.7	1075.7	1079.9	1069.3	1065.0
35°	4147.5	3114.3	1213.8	884.3	986.4	1073.5	1084.2	1048.0	950.2	912.0	901.3
37.5°	4326.0	3005.9	1016.1	873.7	1001.3	1099.0	1116.1	980.0	852.5	790.8	780.2
40°	4542.9	2929.4	886.5	869.5	1035.3	1158.6	1107.6	926.9	761.0	671.8	667.5
42.5°	4795.8	2859.2	799.3	867.3	1077.8	1220.2	1099.0	882.2	667.5	608.0	616.5
45°	4997.8	2821.0	739.8	852.5	1092.7	1256.4	1105.4	803.6	629.2	591.0	595.2
47.5°	5155.1	2740.2	690.9	826.9	1090.5	1269.1	1048.0	771.7	610.1	620.7	631.4
50°	5159.4	2631.8	629.2	771.7	1058.7	1245.7	982.1	741.9	605.9	650.5	671.8
52.5°	5102.0	2478.7	563.3	693.0	984.3	1164.9	922.6	729.2	586.7	582.5	608.0
55°	4897.9	2191.7	452.8	561.2	831.2	960.9	869.5	705.8	529.3	480.4	484.7
57.5°	3958.3	1571.0	333.8	401.8	588.9	703.6	784.4	695.1	476.2	408.2	410.3
60°	2451.1	890.7	244.5	274.2	363.5	427.3	635.6	646.2	425.2	344.4	340.1
62.5°	1258.5	440.0	189.2	193.4	223.2	250.8	435.8	542.1	384.8	327.4	327.4
65°	420.9	216.8	165.8	148.8	148.8	155.2	263.6	376.3	325.3	274.2	274.2
67.5°	180.7	161.6	144.6	129.7	119.0	112.7	148.8	219.0	242.3	208.3	199.8
70°	140.3	136.1	125.4	108.4	93.5	85.0	87.2	112.7	138.2	133.9	129.7
72.5°	104.2	104.2	99.9	85.0	72.3	61.6	57.4	59.5	65.9	68.0	70.2
75°	72.3	74.4	74.4	65.9	53.1	44.6	38.3	31.9	25.5	21.3	19.1
77.5°	48.9	51.0	55.3	48.9	40.4	29.8	23.4	17.0	10.6	4.3	4.3
80°	42.5	48.9	53.1	48.9	42.5	31.9	23.4	12.8	6.4	0.0	0.0
82.5°	44.6	48.9	55.3	46.8	40.4	29.8	23.4	14.9	6.4	2.1	0.0
85°	10.6	10.6	12.8	14.9	19.1	21.3	17.0	10.6	6.4	2.1	0.0
87.5°	4.3	4.3	4.3	4.3	4.3	2.1	2.1	2.1	2.1	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)