

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: P532427

Luminaire Tested: **GALN-SA7D-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532427
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33197 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

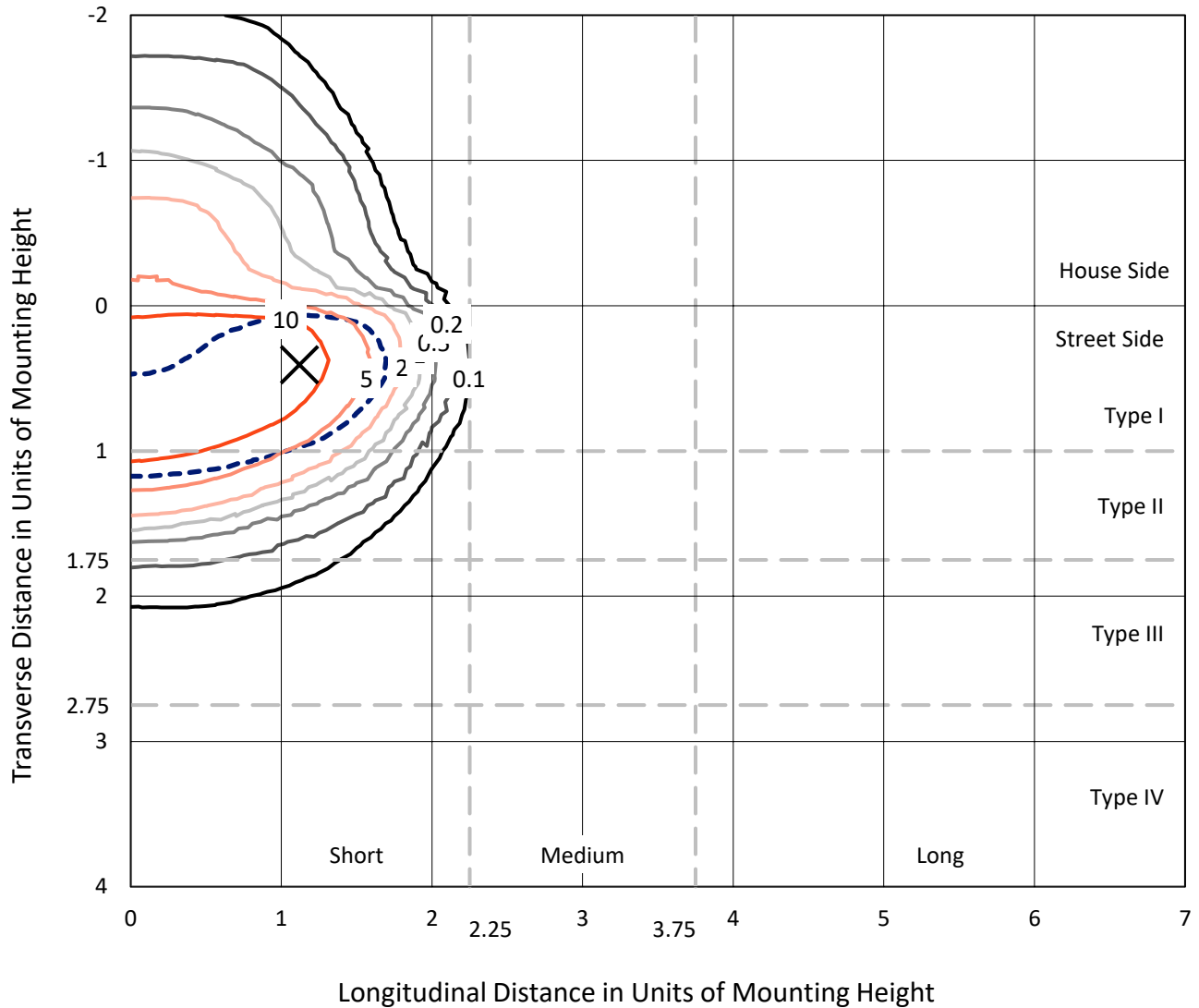
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

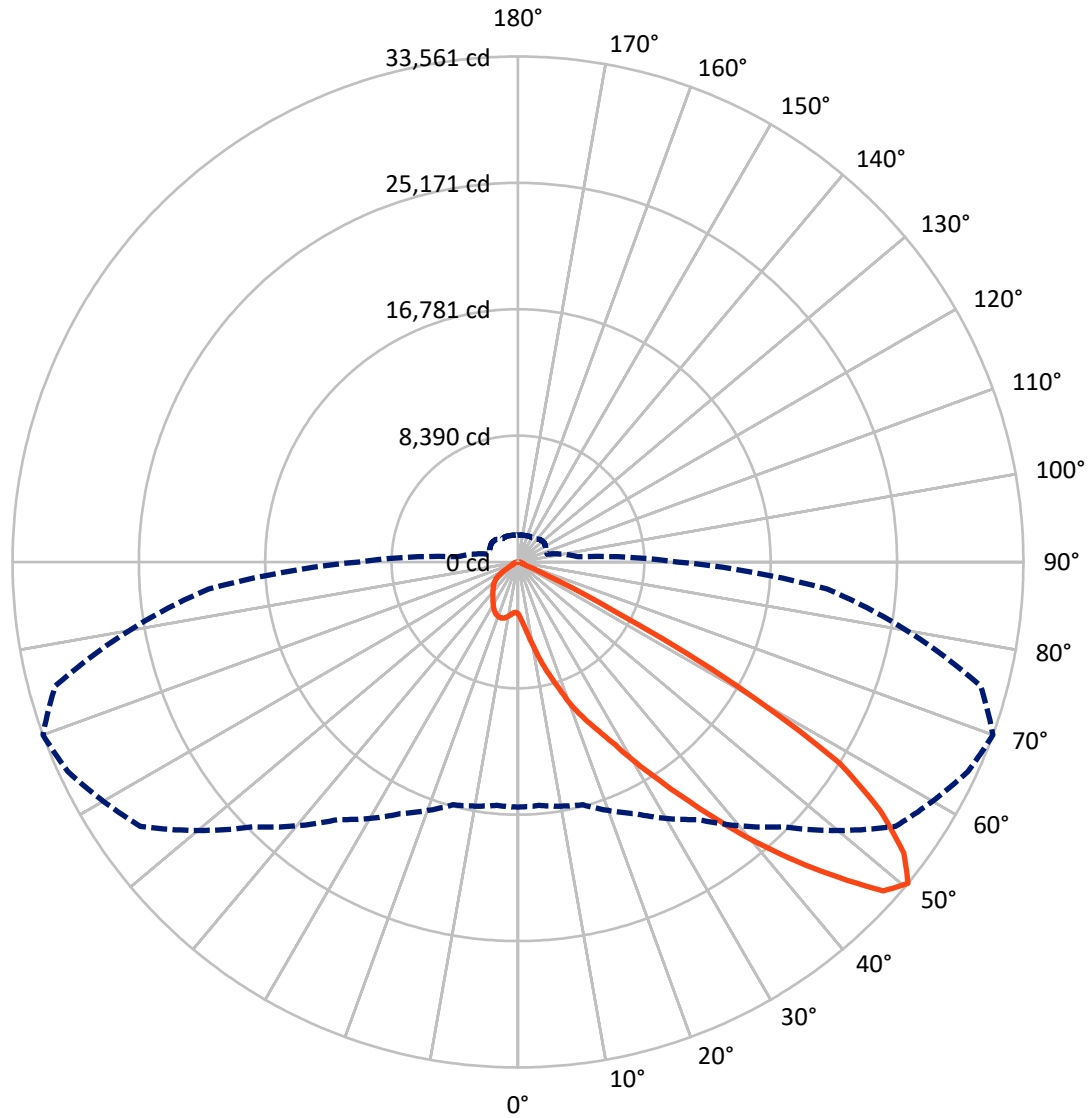
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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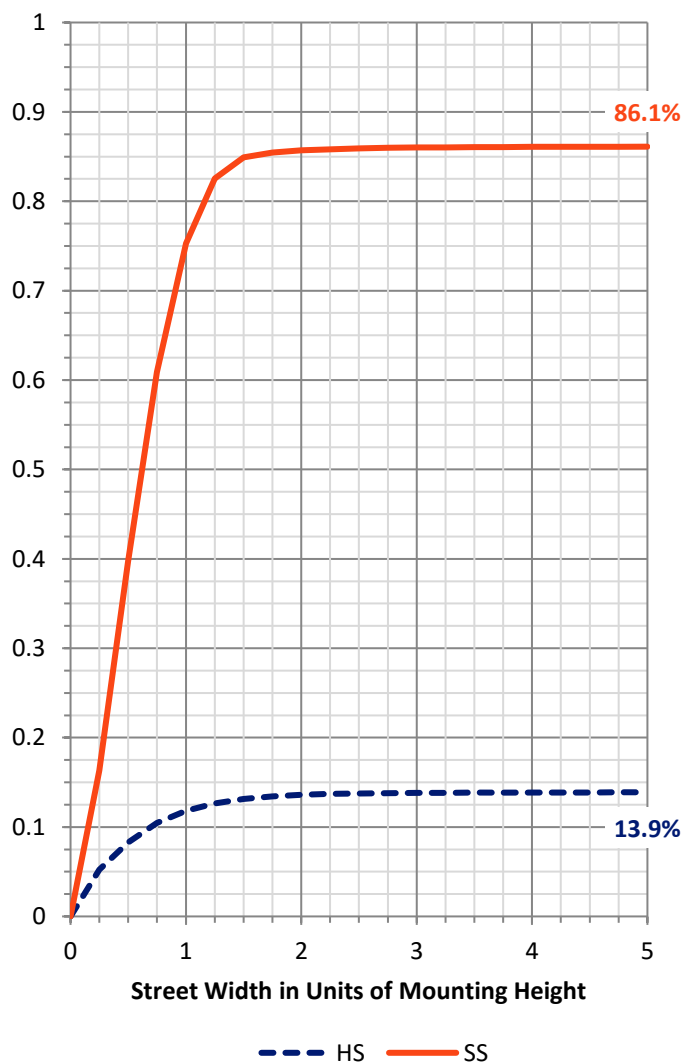
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4636.2	0.0	4636.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	28560.8	0.0	28560.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	33197.0	0.0	33197.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.1	1.3
10°-20°	1934.2	5.8
20°-30°	4057.5	12.2
30°-40°	6993.8	21.1
40°-50°	10221.4	30.8
50°-60°	7960.8	24.0
60°-70°	1348.8	4.1
70°-80°	185.3	0.6
80°-90°	48.0	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°	33197.0	100.0
0°-180°	33197.0	100.0

Coefficient of Utilization



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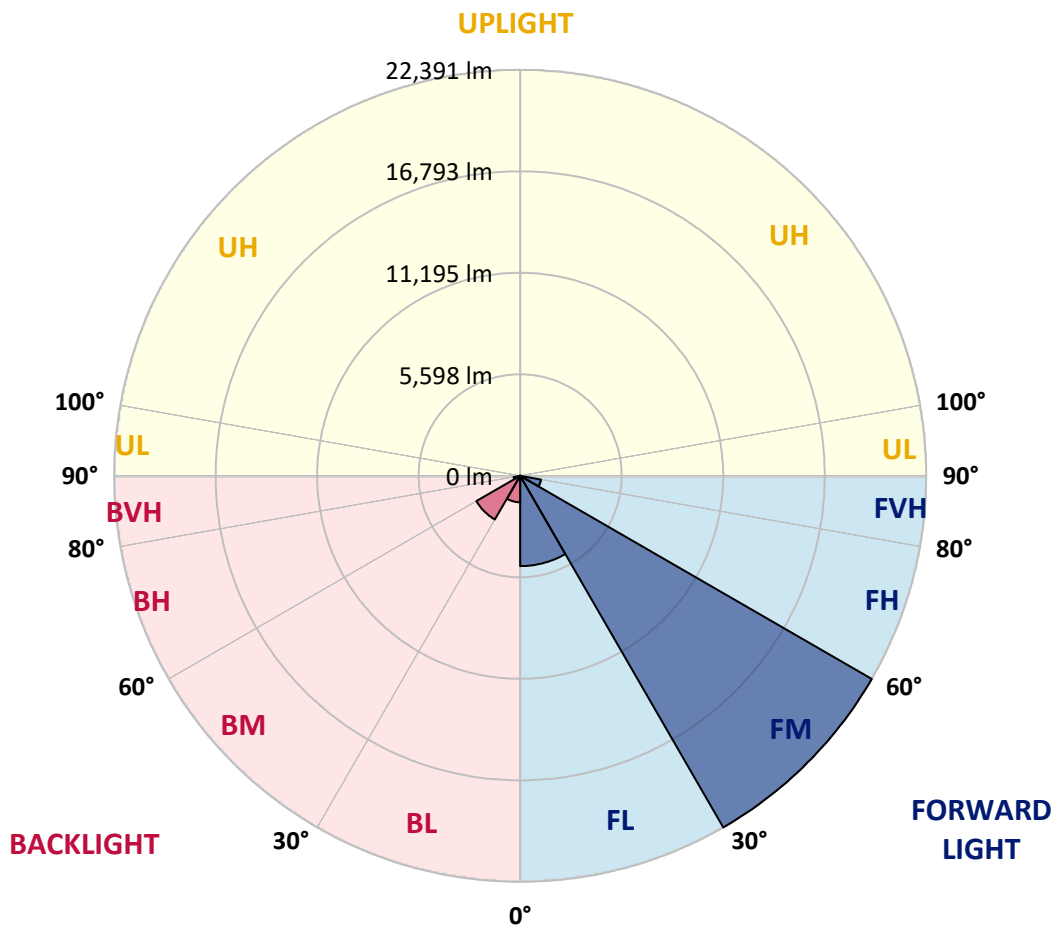
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4979.9	15.0			
FM (30°-60°)	22390.8	67.4			
FH (60°-80°)	1167.9	3.5			G1/1800
FVH (80°-90°)	22.2	0.1			G1/100
BL (0°-30°)	1458.9	4.4	B3/2500		
BM (30°-60°)	2785.3	8.4	B3/5000		
BH (60°-80°)	366.2	1.1	B1/500		G1/500
BVH (80°-90°)	25.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6
2.5°	4502.9	4470.1	4399.2	4268.2	4213.6	4082.6	4006.2	3858.8	3766.0	3662.3	3547.7
5°	6342.2	6173.0	6069.3	5922.0	5490.8	5223.3	4781.2	4404.6	4230.0	4038.9	3777.0
7.5°	8241.6	8132.5	7990.5	7674.0	7379.2	6822.5	6063.9	5234.2	4879.5	4552.0	4033.5
10°	9813.5	9507.9	9491.5	9256.8	8934.8	8268.9	7357.4	6325.9	5692.7	5212.4	4399.2
12.5°	10910.6	10632.2	10757.8	10730.5	10430.3	9819.0	8765.6	7401.1	6740.7	5992.9	4775.8
15°	11909.4	11794.8	11756.6	11723.8	11603.8	11150.7	10206.5	8711.0	7755.9	6855.3	5201.5
17.5°	12886.4	12591.7	12733.6	12760.9	12749.9	12340.6	11456.4	9955.4	8831.1	7766.8	5649.1
20°	13754.2	13781.5	13590.5	13552.3	13519.5	13503.2	12640.8	11189.0	10151.9	8721.9	6233.1
22.5°	14867.7	14676.6	14845.8	14736.7	14523.8	14392.8	13732.4	12280.6	11298.1	9873.6	6828.0
25°	16183.0	16335.9	15937.4	15893.8	15659.1	15206.1	14611.1	13503.2	12400.6	10943.3	7472.0
27.5°	17804.1	17536.6	17432.9	17192.8	16767.1	16576.0	15877.4	14764.0	13732.4	12067.7	8094.3
30°	19195.9	19124.9	18606.4	18322.6	17951.4	17946.0	16969.0	16472.3	15468.0	13830.6	8951.2
32.5°	20331.1	20020.0	19829.0	19632.5	19332.3	19414.2	18590.0	18328.0	17318.3	15468.0	9960.9
35°	21089.8	20866.0	20751.4	20451.2	20363.9	20729.6	20385.7	20276.6	19446.9	17771.3	11145.3
37.5°	21330.0	21400.9	21379.1	21002.5	21188.1	22176.0	22618.1	22334.2	21897.6	20200.1	12427.9
40°	21542.8	21591.9	21482.8	21924.9	22454.3	23578.7	25177.9	24708.5	24544.7	22661.7	14212.7
42.5°	21662.9	21624.7	21624.7	22388.8	23191.1	25450.8	27650.4	27339.2	27213.7	25281.6	16275.8
45°	21144.4	20773.2	21171.7	22208.7	23824.3	26373.2	29626.2	30057.3	29877.2	28398.1	18688.3
47.5°	19206.8	19436.0	19659.8	21046.1	23054.7	26089.4	30837.8	32306.0	32639.0	31018.0	20271.1
50°	16275.8	16226.7	16690.6	18437.2	20876.9	24866.8	30603.1	32955.6	33561.4	31803.9	20604.0
52.5°	11838.5	12198.7	12700.8	14436.5	17329.2	21701.1	27573.9	31279.9	32087.7	30837.8	20385.7
55°	6893.5	6495.0	7624.9	9093.1	11822.1	16368.6	23311.2	27726.8	29222.3	29080.4	19283.2
57.5°	2761.8	2674.4	3062.0	4126.3	6167.6	10146.5	16952.6	22781.8	25177.9	26635.2	16947.2
60°	1211.7	1184.4	1391.8	1681.1	2521.6	4677.5	9273.2	14169.0	16668.8	18611.9	11663.8
62.5°	873.3	862.4	966.1	1069.8	1331.8	2035.8	3897.0	5709.1	7117.3	8596.4	5223.3
65°	704.1	731.4	802.3	856.9	982.4	1129.8	1375.4	1588.3	1948.5	2019.5	1151.6
67.5°	573.1	594.9	660.4	720.5	742.3	611.3	633.1	556.7	556.7	496.7	398.4
70°	420.3	425.7	502.1	573.1	458.5	245.6	431.2	431.2	387.5	371.1	338.4
72.5°	311.1	316.6	376.6	354.8	180.1	152.8	316.6	349.3	316.6	300.2	272.9
75°	229.2	234.7	196.5	81.9	76.4	98.2	185.6	240.2	229.2	223.8	207.4
77.5°	43.7	32.7	27.3	38.2	54.6	81.9	120.1	147.4	152.8	163.7	152.8
80°	5.5	5.5	16.4	32.7	60.0	87.3	125.5	141.9	147.4	152.8	141.9
82.5°	0.0	5.5	16.4	32.7	60.0	81.9	109.2	125.5	136.5	141.9	136.5
85°	0.0	5.5	10.9	27.3	49.1	60.0	54.6	38.2	32.7	38.2	27.3
87.5°	0.0	0.0	5.5	5.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9
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°	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6	3438.6
2.5°	3482.2	3460.4	3384.0	3302.1	3231.2	3263.9	3231.2	3203.9	3214.8	3203.9	3192.9
5°	3673.3	3575.0	3411.3	3340.3	3280.3	3274.8	3258.4	3253.0	3258.4	3258.4	3209.3
7.5°	3853.4	3695.1	3520.4	3444.0	3373.1	3378.5	3340.3	3340.3	3334.9	3307.6	3296.6
10°	4126.3	3913.4	3689.6	3553.2	3465.8	3449.5	3411.3	3373.1	3373.1	3373.1	3318.5
12.5°	4426.5	4159.0	3853.4	3695.1	3591.4	3509.5	3449.5	3438.6	3378.5	3367.6	3340.3
15°	4688.4	4350.0	3962.5	3744.2	3613.2	3504.1	3411.3	3351.2	3323.9	3307.6	3285.7
17.5°	4945.0	4513.8	4022.6	3744.2	3602.3	3476.8	3378.5	3323.9	3258.4	3269.4	3225.7
20°	5288.8	4688.4	4038.9	3673.3	3498.6	3378.5	3247.5	3220.2	3182.0	3149.3	3160.2
22.5°	5621.8	4814.0	3989.8	3585.9	3334.9	3192.9	3127.4	3094.7	3078.3	3051.0	3012.8
25°	5922.0	4950.4	3913.4	3427.6	3160.2	3056.5	2996.5	2991.0	2952.8	2952.8	2881.8
27.5°	6227.6	4999.6	3782.4	3242.1	3007.4	2947.3	2920.0	2909.1	2892.8	2854.5	2805.4
30°	6576.9	5015.9	3591.4	3051.0	2870.9	2805.4	2843.6	2870.9	2800.0	2729.0	2750.8
32.5°	6866.2	4977.7	3362.1	2870.9	2772.7	2739.9	2816.3	2843.6	2761.8	2685.3	2647.1
35°	7215.5	4884.9	3138.4	2729.0	2674.4	2739.9	2805.4	2805.4	2641.7	2548.9	2527.1
37.5°	7744.9	4781.2	2931.0	2608.9	2570.7	2707.2	2794.5	2734.5	2477.9	2363.3	2336.0
40°	8312.6	4715.7	2729.0	2488.9	2516.1	2652.6	2701.7	2516.1	2254.2	2183.2	2161.4
42.5°	9136.7	4584.7	2548.9	2385.2	2467.0	2576.2	2576.2	2243.2	2145.0	2106.8	2101.3
45°	10162.8	4492.0	2390.6	2297.8	2396.1	2423.4	2336.0	2101.3	2030.4	2019.5	2024.9
47.5°	10665.0	4311.8	2226.9	2194.1	2265.1	2270.5	2041.3	1986.7	1926.7	1910.3	1899.4
50°	10588.6	3989.8	2014.0	2057.7	2155.9	2101.3	1861.2	1872.1	1817.5	1812.1	1784.8
52.5°	10053.7	3482.2	1801.1	1904.9	2014.0	1855.7	1713.8	1702.9	1702.9	1631.9	1604.7
55°	8913.0	2805.4	1544.6	1675.6	1806.6	1561.0	1522.8	1511.9	1484.6	1419.1	1402.7
57.5°	7057.2	2057.7	1162.6	1304.5	1533.7	1326.3	1320.8	1271.7	1200.8	1151.6	1151.6
60°	4197.2	1184.4	731.4	796.9	1015.2	1075.2	1195.3	1173.5	1053.4	977.0	955.2
62.5°	1915.8	611.3	463.9	474.8	545.8	698.6	938.8	1086.1	916.9	786.0	775.0
65°	644.0	453.0	382.1	365.7	376.6	420.3	562.2	769.6	731.4	605.8	584.0
67.5°	393.0	403.9	360.2	332.9	332.9	327.5	322.0	349.3	431.2	420.3	425.7
70°	338.4	371.1	332.9	300.2	289.3	272.9	229.2	191.0	163.7	191.0	201.9
72.5°	272.9	294.7	283.8	256.5	229.2	207.4	163.7	125.5	92.8	81.9	81.9
75°	201.9	218.3	229.2	196.5	174.7	147.4	120.1	81.9	49.1	32.7	32.7
77.5°	147.4	163.7	169.2	152.8	131.0	103.7	76.4	54.6	27.3	10.9	10.9
80°	125.5	147.4	163.7	152.8	136.5	98.2	71.0	38.2	21.8	5.5	5.5
82.5°	120.1	147.4	163.7	147.4	131.0	92.8	71.0	43.7	16.4	5.5	5.5
85°	27.3	38.2	49.1	60.0	71.0	71.0	54.6	32.7	16.4	5.5	5.5
87.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	5.5	5.5	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)