

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: P534403

Luminaire Tested: **GALN-SA9D-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534403
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-SA9D-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 34097 lumens
Efficiency: N/A
Efficacy: 61.8 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

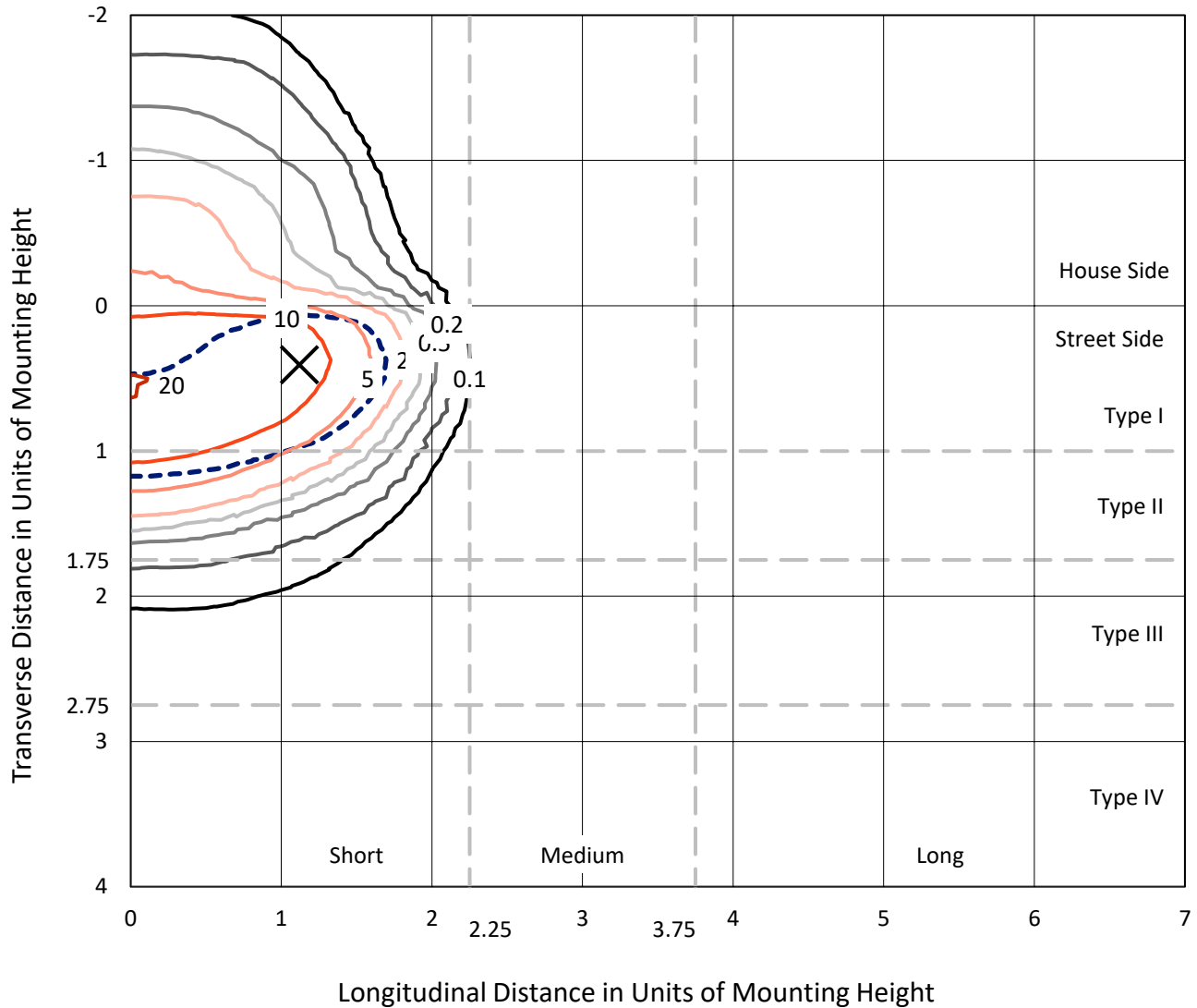
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

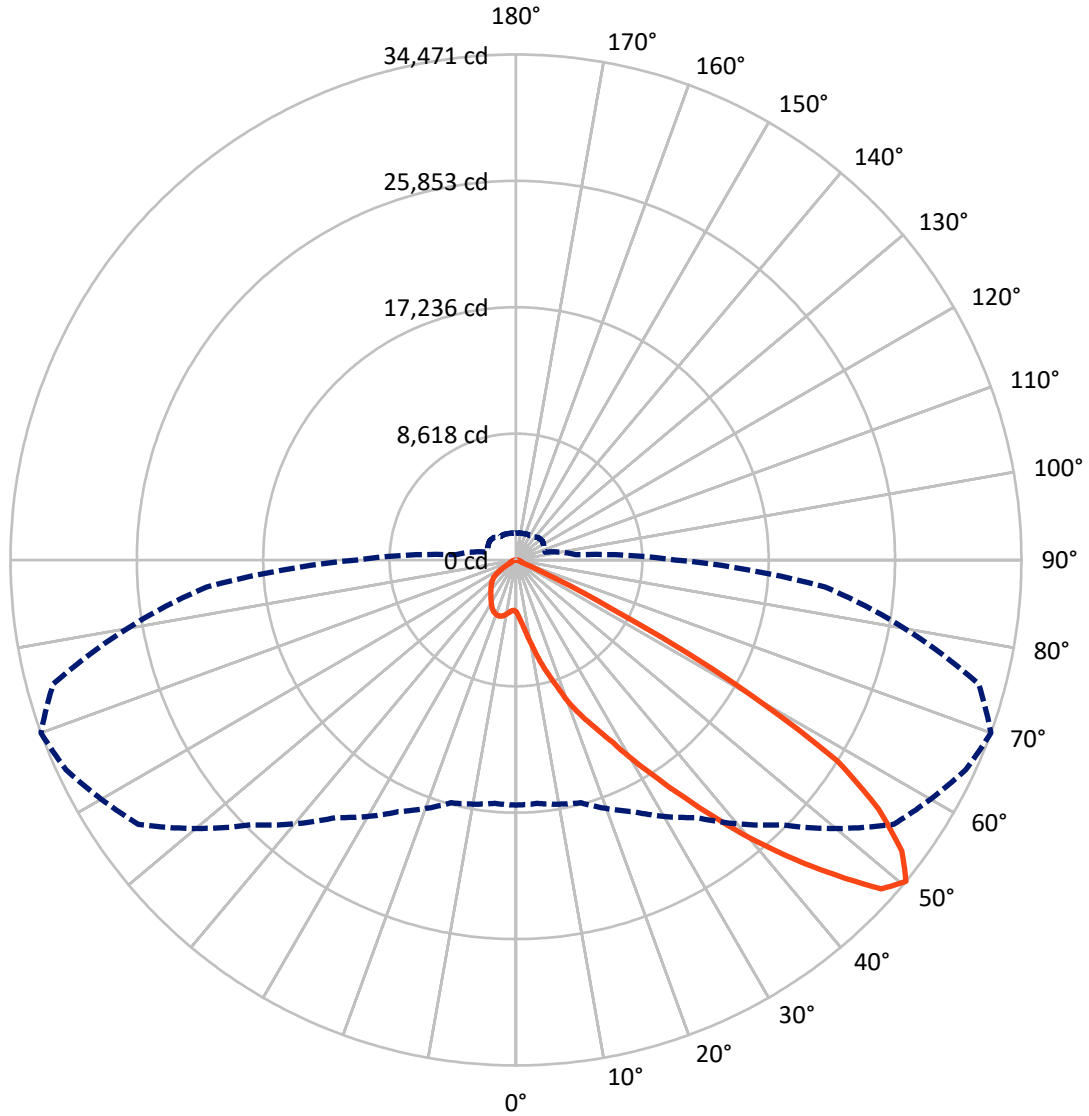
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 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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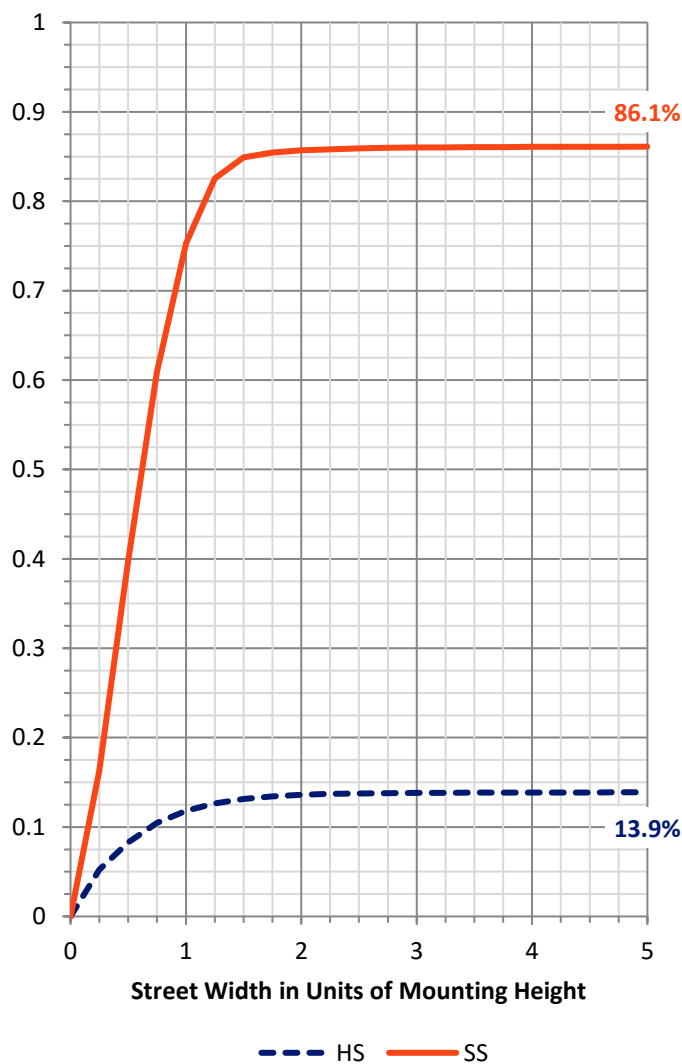
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4761.9	0.0	4761.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	29335.1	0.0	29335.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	34097.0	0.0	34097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.3	1.3
10°-20°	1986.6	5.8
20°-30°	4167.5	12.2
30°-40°	7183.4	21.1
40°-50°	10498.5	30.8
50°-60°	8176.6	24.0
60°-70°	1385.4	4.1
70°-80°	190.3	0.6
80°-90°	49.3	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°	34097.0	100.0
0°-180°	34097.0	100.0

Coefficient of Utilization



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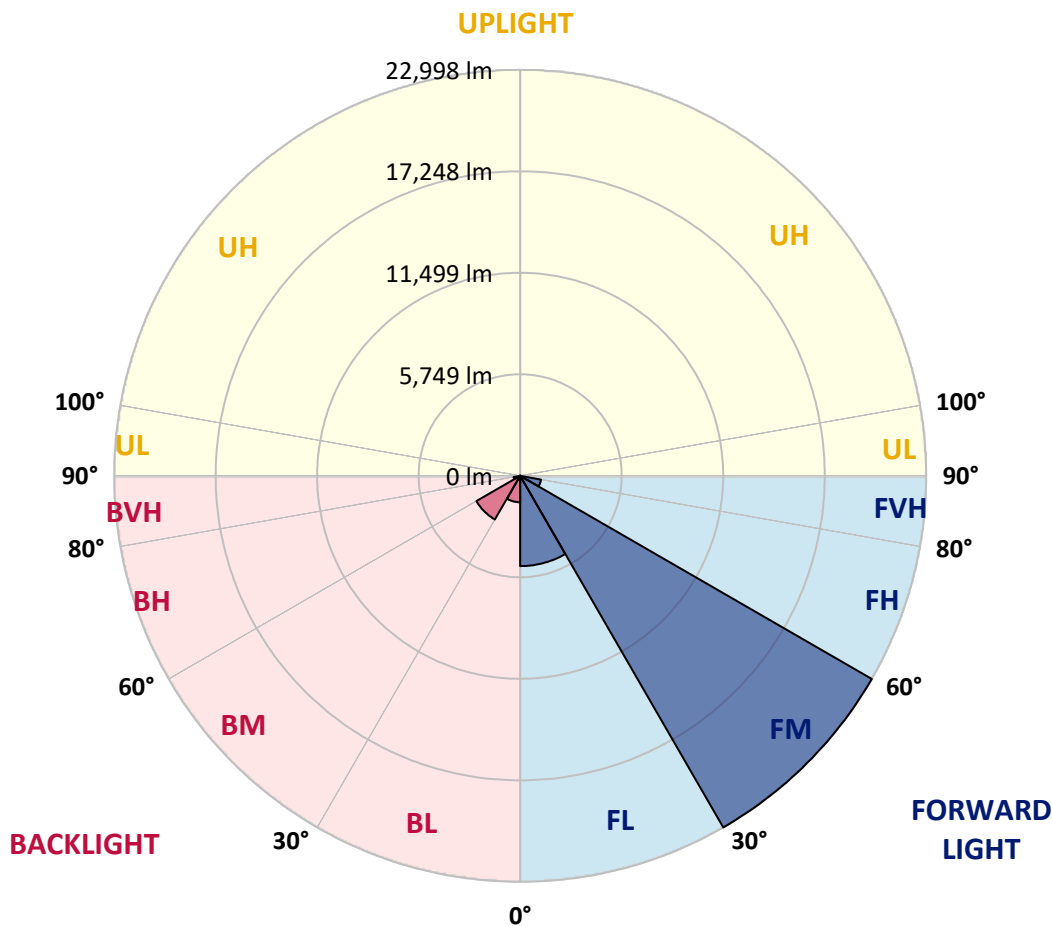
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5114.9	15.0			
FM (30°-60°)	22997.8	67.4			
FH (60°-80°)	1199.5	3.5			G1/1800
FVH (80°-90°)	22.8	0.1			G1/100
BL (0°-30°)	1498.4	4.4	B3/2500		
BM (30°-60°)	2860.8	8.4	B3/5000		
BH (60°-80°)	376.2	1.1	B1/500		G1/500
BVH (80°-90°)	26.5	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°	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8
2.5°	4624.9	4591.3	4518.4	4383.9	4327.8	4193.3	4114.8	3963.4	3868.1	3761.6	3643.9
5°	6514.2	6340.4	6233.9	6082.5	5639.6	5364.9	4910.9	4524.0	4344.6	4148.4	3879.3
7.5°	8465.1	8352.9	8207.2	7882.0	7579.3	7007.5	6228.3	5376.2	5011.8	4675.4	4142.8
10°	10079.6	9765.6	9748.8	9507.8	9177.0	8493.1	7556.9	6497.3	5847.1	5353.7	4518.4
12.5°	11206.4	10920.5	11049.4	11021.4	10713.1	10085.2	9003.2	7601.7	6923.4	6155.4	4905.2
15°	12232.3	12114.6	12075.3	12041.7	11918.3	11453.1	10483.2	8947.2	7966.1	7041.1	5342.5
17.5°	13235.8	12933.0	13078.8	13106.8	13095.6	12675.2	11767.0	10225.3	9070.5	7977.3	5802.2
20°	14127.1	14155.1	13958.9	13919.7	13886.1	13869.2	12983.5	11492.3	10427.2	8958.4	6402.0
22.5°	15270.7	15074.5	15248.3	15136.2	14917.6	14783.0	14104.7	12613.5	11604.4	10141.2	7013.1
25°	16621.8	16778.7	16369.5	16324.7	16083.6	15618.3	15007.3	13869.2	12736.8	11240.0	7674.6
27.5°	18286.8	18012.1	17905.6	17658.9	17221.6	17025.4	16307.8	15164.2	14104.7	12394.9	8313.7
30°	19716.3	19643.4	19110.8	18819.3	18438.1	18432.5	17429.0	16918.9	15887.4	14205.6	9193.8
32.5°	20882.3	20562.8	20366.6	20164.8	19856.4	19940.5	19094.0	18824.9	17787.8	15887.4	10230.9
35°	21661.6	21431.7	21314.0	21005.7	20916.0	21291.6	20938.4	20826.3	19974.2	18253.1	11447.4
37.5°	21908.2	21981.1	21958.7	21571.9	21762.5	22777.2	23231.2	22939.7	22491.3	20747.8	12764.9
40°	22126.9	22177.3	22065.2	22519.3	23063.1	24217.9	25860.5	25378.3	25210.2	23276.1	14598.0
42.5°	22250.2	22211.0	22211.0	22995.8	23819.9	26140.8	28400.0	28080.4	27951.5	25967.0	16717.1
45°	21717.6	21336.4	21745.7	22810.8	24470.2	27088.2	30429.3	30872.2	30687.2	29168.0	19194.9
47.5°	19727.5	19963.0	20192.8	21616.7	23679.7	26796.7	31673.9	33181.9	33523.9	31858.9	20820.7
50°	16717.1	16666.6	17143.1	18937.1	21442.9	25540.9	31432.8	33849.0	34471.3	32666.1	21162.6
52.5°	12159.4	12529.4	13045.2	14827.9	17799.0	22289.4	28321.5	32128.0	32957.7	31673.9	20938.4
55°	7080.4	6671.1	7831.6	9339.6	12142.6	16812.4	23943.2	28478.5	30014.5	29868.7	19806.0
57.5°	2836.6	2746.9	3145.0	4238.1	6334.8	10421.5	17412.2	23399.4	25860.5	27357.3	17406.6
60°	1244.5	1216.5	1429.5	1726.6	2590.0	4804.3	9524.6	14553.2	17120.7	19116.4	11980.0
62.5°	897.0	885.7	992.3	1098.8	1367.9	2091.0	4002.7	5863.9	7310.2	8829.4	5364.9
65°	723.2	751.2	824.1	880.1	1009.1	1160.4	1412.7	1631.3	2001.3	2074.2	1182.9
67.5°	588.6	611.1	678.3	740.0	762.4	627.9	650.3	571.8	571.8	510.1	409.2
70°	431.7	437.3	515.8	588.6	470.9	252.3	442.9	442.9	398.0	381.2	347.6
72.5°	319.5	325.1	386.8	364.4	185.0	157.0	325.1	358.8	325.1	308.3	280.3
75°	235.5	241.1	201.8	84.1	78.5	100.9	190.6	246.7	235.5	229.8	213.0
77.5°	44.8	33.6	28.0	39.2	56.1	84.1	123.3	151.4	157.0	168.2	157.0
80°	5.6	5.6	16.8	33.6	61.7	89.7	128.9	145.8	151.4	157.0	145.8
82.5°	0.0	5.6	16.8	33.6	61.7	84.1	112.1	128.9	140.1	145.8	140.1
85°	0.0	5.6	11.2	28.0	50.5	61.7	56.1	39.2	33.6	39.2	28.0
87.5°	0.0	0.0	5.6	5.6	11.2	11.2	11.2	11.2	11.2	11.2	11.2
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°	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8	3531.8
2.5°	3576.6	3554.2	3475.7	3391.6	3318.7	3352.4	3318.7	3290.7	3301.9	3290.7	3279.5
5°	3772.8	3671.9	3503.7	3430.9	3369.2	3363.6	3346.8	3341.2	3346.8	3346.8	3296.3
7.5°	3957.8	3795.3	3615.9	3537.4	3464.5	3470.1	3430.9	3430.9	3425.3	3397.2	3386.0
10°	4238.1	4019.5	3789.7	3649.5	3559.8	3543.0	3503.7	3464.5	3464.5	3464.5	3408.4
12.5°	4546.5	4271.8	3957.8	3795.3	3688.7	3604.7	3543.0	3531.8	3470.1	3458.9	3430.9
15°	4815.6	4468.0	4070.0	3845.7	3711.2	3599.0	3503.7	3442.1	3414.1	3397.2	3374.8
17.5°	5079.0	4636.2	4131.6	3845.7	3700.0	3571.0	3470.1	3414.1	3346.8	3358.0	3313.1
20°	5432.2	4815.6	4148.4	3772.8	3593.4	3470.1	3335.6	3307.5	3268.3	3234.7	3245.9
22.5°	5774.2	4944.5	4098.0	3683.1	3425.3	3279.5	3212.2	3178.6	3161.8	3133.8	3094.5
25°	6082.5	5084.6	4019.5	3520.6	3245.9	3139.4	3077.7	3072.1	3032.8	3032.8	2960.0
27.5°	6396.4	5135.1	3885.0	3330.0	3088.9	3027.2	2999.2	2988.0	2971.2	2931.9	2881.5
30°	6755.2	5151.9	3688.7	3133.8	2948.8	2881.5	2920.7	2948.8	2875.9	2803.0	2825.4
32.5°	7052.3	5112.7	3453.3	2948.8	2847.8	2814.2	2892.7	2920.7	2836.6	2758.2	2718.9
35°	7411.1	5017.4	3223.4	2803.0	2746.9	2814.2	2881.5	2881.5	2713.3	2618.0	2595.6
37.5°	7954.9	4910.9	3010.4	2679.7	2640.4	2780.6	2870.3	2808.6	2545.1	2427.4	2399.4
40°	8537.9	4843.6	2803.0	2556.3	2584.4	2724.5	2775.0	2584.4	2315.3	2242.4	2220.0
42.5°	9384.4	4709.0	2618.0	2449.8	2533.9	2646.0	2646.0	2304.1	2203.2	2163.9	2158.3
45°	10438.4	4613.7	2455.4	2360.1	2461.0	2489.1	2399.4	2158.3	2085.4	2074.2	2079.8
47.5°	10954.1	4428.7	2287.2	2253.6	2326.5	2332.1	2096.6	2040.6	1978.9	1962.1	1950.9
50°	10875.6	4098.0	2068.6	2113.5	2214.4	2158.3	1911.6	1922.9	1866.8	1861.2	1833.2
52.5°	10326.2	3576.6	1850.0	1956.5	2068.6	1906.0	1760.3	1749.1	1749.1	1676.2	1648.2
55°	9154.6	2881.5	1586.5	1721.0	1855.6	1603.3	1564.1	1552.9	1524.8	1457.6	1440.7
57.5°	7248.6	2113.5	1194.1	1339.8	1575.3	1362.3	1356.7	1306.2	1233.3	1182.9	1182.9
60°	4311.0	1216.5	751.2	818.5	1042.7	1104.4	1227.7	1205.3	1082.0	1003.5	981.0
62.5°	1967.7	627.9	476.5	487.7	560.6	717.6	964.2	1115.6	941.8	807.3	796.1
65°	661.5	465.3	392.4	375.6	386.8	431.7	577.4	790.4	751.2	622.3	599.8
67.5°	403.6	414.8	370.0	342.0	342.0	336.4	330.8	358.8	442.9	431.7	437.3
70°	347.6	381.2	342.0	308.3	297.1	280.3	235.5	196.2	168.2	196.2	207.4
72.5°	280.3	302.7	291.5	263.5	235.5	213.0	168.2	128.9	95.3	84.1	84.1
75°	207.4	224.2	235.5	201.8	179.4	151.4	123.3	84.1	50.5	33.6	33.6
77.5°	151.4	168.2	173.8	157.0	134.5	106.5	78.5	56.1	28.0	11.2	11.2
80°	128.9	151.4	168.2	157.0	140.1	100.9	72.9	39.2	22.4	5.6	5.6
82.5°	123.3	151.4	168.2	151.4	134.5	95.3	72.9	44.8	16.8	5.6	5.6
85°	28.0	39.2	50.5	61.7	72.9	72.9	56.1	33.6	16.8	5.6	5.6
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	5.6	5.6	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)