

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: P531596

Luminaire Tested: **GALN-SA6D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29634 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

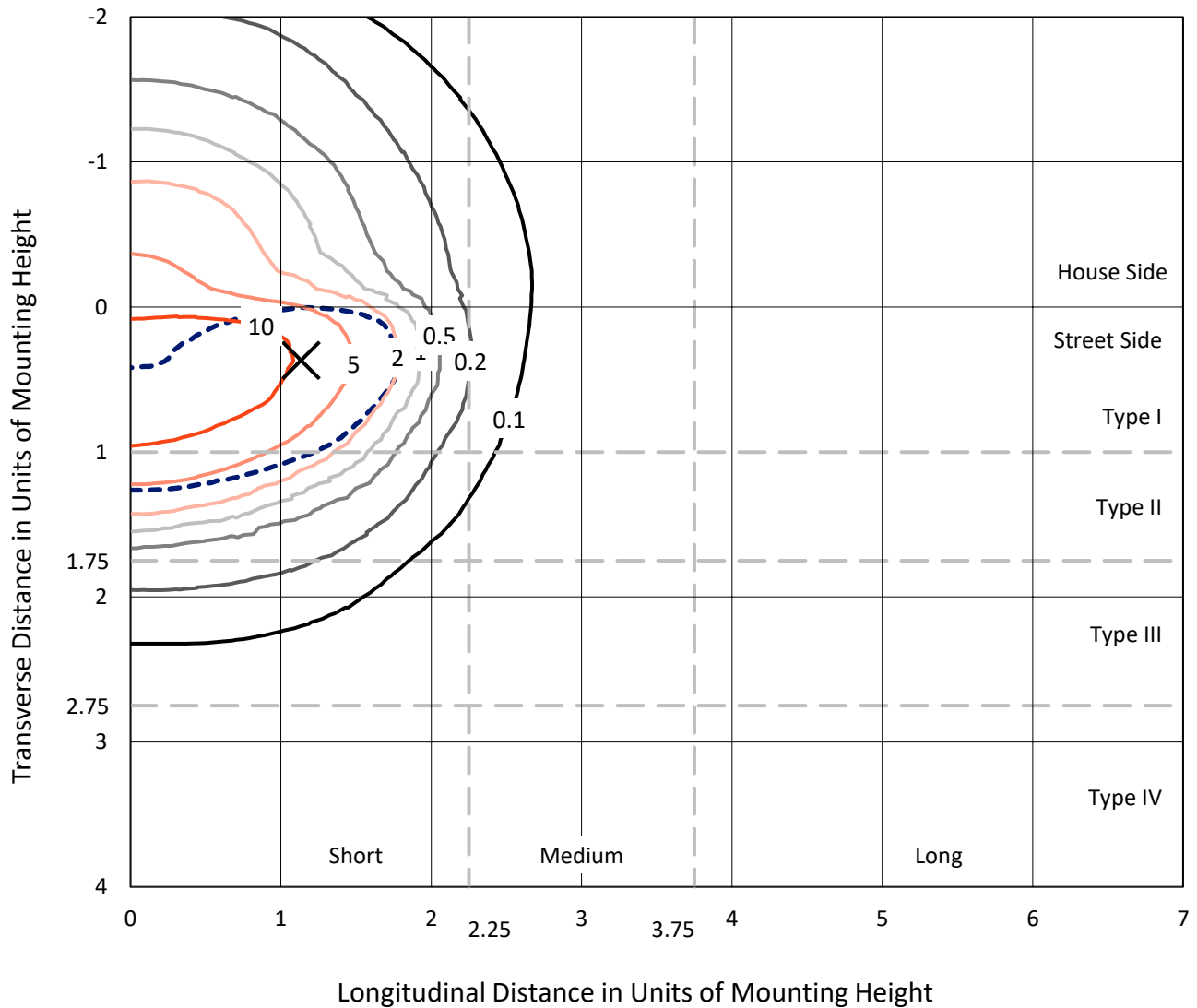
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

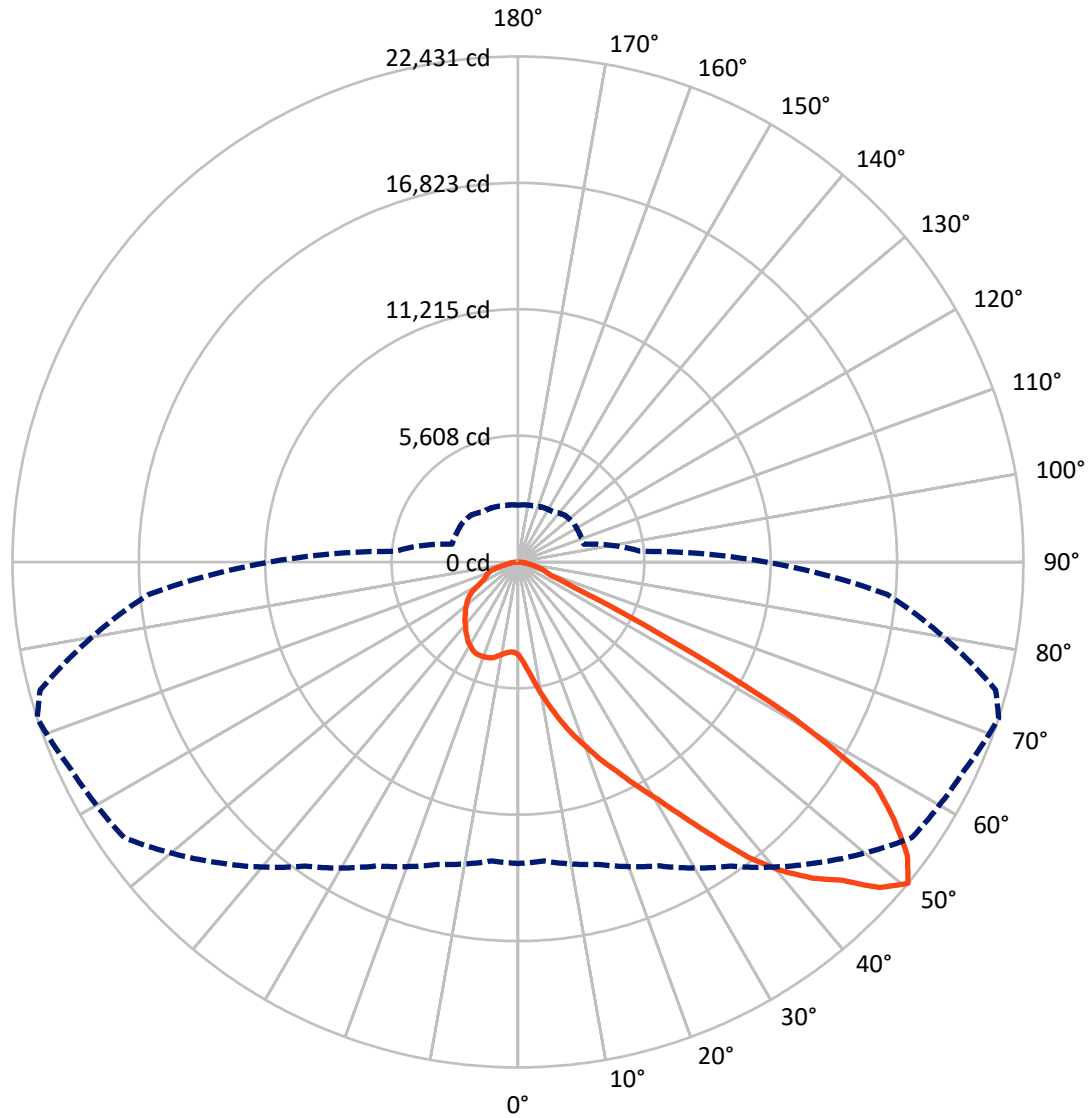
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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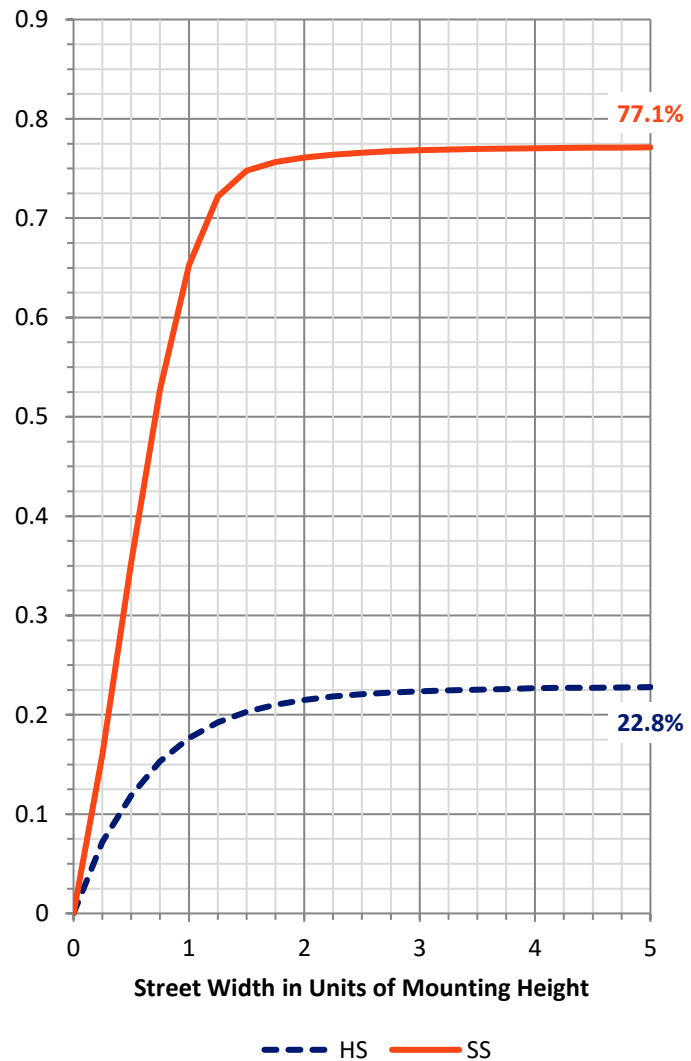
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6789.3	0.0	6789.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	22844.7	0.0	22844.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	29634.0	0.0	29634.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	485.2	1.6
10°-20°	1814.0	6.1
20°-30°	3517.2	11.9
30°-40°	5826.8	19.7
40°-50°	8152.9	27.5
50°-60°	6878.1	23.2
60°-70°	2096.4	7.1
70°-80°	735.5	2.5
80°-90°	127.9	0.4
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°	29634.0	100.0
0°-180°	29634.0	100.0



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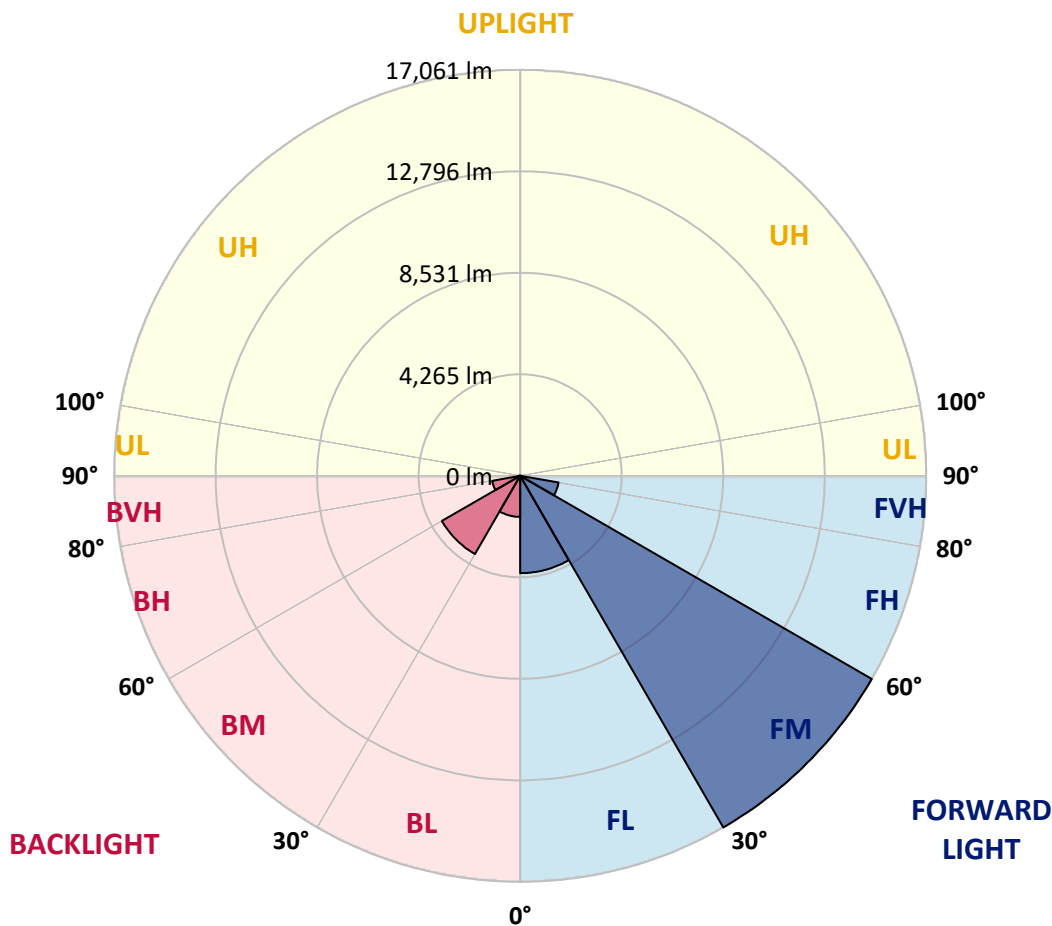
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4090.6	13.8			
FM (30°-60°)	17061.1	57.6			
FH (60°-80°)	1635.8	5.5			G1/1800
FVH (80°-90°)	57.3	0.2			G1/100
BL (0°-30°)	1725.9	5.8	B3/2500		
BM (30°-60°)	3796.7	12.8	B3/5000		
BH (60°-80°)	1196.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	70.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3
2.5°	5306.1	5273.1	5174.0	5141.0	5023.7	4811.0	4737.7	4521.3	4429.7	4345.3	4246.3
5°	6710.5	6556.5	6545.5	6358.5	6087.1	5929.4	5460.1	5144.7	4855.0	4708.3	4437.0
7.5°	7605.2	7608.9	7608.9	7454.9	7238.5	6838.8	6417.1	5848.8	5412.4	5196.1	4734.0
10°	8456.0	8382.6	8342.3	8327.6	8180.9	7792.2	7341.2	6637.2	6039.4	5786.4	4957.7
12.5°	9057.3	8995.0	9086.7	9039.0	8932.7	8679.6	8254.3	7451.2	6703.2	6362.1	5317.1
15°	9343.4	9387.4	9460.7	9592.7	9545.0	9449.7	8980.3	8287.3	7418.2	7033.2	5636.1
17.5°	9783.4	9662.4	9750.4	9915.4	10047.4	10003.4	9735.7	8892.3	8125.9	7652.9	6065.1
20°	10091.4	10021.7	10065.7	10256.4	10355.4	10604.8	10465.4	9684.4	8804.3	8305.6	6571.2
22.5°	10971.5	10868.8	10725.8	10755.1	10791.8	10967.8	11000.8	10553.4	9592.7	9064.7	7051.5
25°	12056.9	11961.6	11792.9	11620.5	11514.2	11481.2	11594.9	11235.5	10348.1	9801.7	7568.6
27.5°	13252.3	13091.0	12984.6	12628.9	12342.9	12298.9	12243.9	12049.6	11242.8	10652.5	8151.6
30°	14414.7	14286.4	14143.4	13575.0	13278.0	13230.3	12959.0	13014.0	12214.6	11558.2	8811.7
32.5°	15294.8	15305.8	14979.4	14550.4	14271.7	14018.7	13919.7	14077.4	13461.3	12933.3	9548.7
35°	16006.2	16039.2	15727.5	15338.8	15038.1	15214.1	15170.1	15243.5	14950.1	14304.7	10406.8
37.5°	16699.2	16534.2	16200.5	16013.5	15855.8	16145.5	16519.6	16581.9	16636.9	15877.8	11404.2
40°	16812.9	16827.6	16633.2	16765.2	16567.2	17003.6	17872.7	17792.0	18015.7	17352.0	12485.9
42.5°	16651.6	16684.6	16761.6	16948.6	17425.3	17949.7	19240.4	18910.4	19181.8	18591.4	13538.3
45°	16387.5	16251.9	16347.2	17058.6	17883.7	19049.7	20490.9	20234.2	20146.2	19651.1	14792.4
47.5°	15126.1	15265.5	15562.5	16438.9	17678.3	19240.4	21378.2	21319.6	21583.6	21235.2	15932.8
50°	13377.0	13322.0	13894.0	14880.4	16479.2	18866.4	21330.6	21862.3	22430.7	21946.6	16442.6
52.5°	10018.1	10311.4	10802.8	12027.6	14308.4	16827.6	20289.2	21176.6	21638.6	21535.9	16031.9
55°	6332.8	6420.8	6717.8	8173.6	10227.1	13505.3	17392.3	19449.4	20274.5	20659.5	15654.2
57.5°	3076.6	2911.5	3274.6	4444.3	5907.4	9083.0	13413.7	16941.3	18734.4	19431.1	14832.8
60°	1606.1	1668.5	1811.5	2229.5	3054.6	4715.7	8360.6	11290.5	14029.7	15100.5	11242.8
62.5°	1331.1	1353.1	1448.4	1657.5	2031.5	2713.5	4268.3	5504.1	7154.2	8118.6	6395.1
65°	1129.4	1140.4	1243.1	1382.4	1620.8	1910.5	2196.5	2299.2	2783.2	2856.5	2273.5
67.5°	942.4	953.4	1063.4	1195.4	1349.4	1426.4	1499.8	1492.4	1547.4	1525.4	1521.8
70°	726.1	737.1	850.7	990.1	1067.1	1023.1	1250.4	1301.8	1323.8	1342.1	1371.4
72.5°	524.4	546.4	634.4	733.4	693.1	795.7	1030.4	1107.4	1136.8	1147.8	1184.4
75°	381.4	388.7	410.7	381.4	440.0	553.7	726.1	821.4	858.1	869.1	924.1
77.5°	168.7	172.3	176.0	220.0	282.4	344.7	432.7	509.7	561.0	575.7	590.4
80°	88.0	91.7	113.7	150.3	201.7	253.0	315.4	359.4	392.4	396.0	410.7
82.5°	55.0	58.7	80.7	106.3	143.0	187.0	231.0	267.7	293.4	297.0	300.7
85°	25.7	33.0	47.7	66.0	95.3	121.0	124.7	106.3	113.7	117.3	110.0
87.5°	7.3	11.0	14.7	11.0	14.7	14.7	18.3	22.0	22.0	22.0	25.7
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°	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3	4125.3
2.5°	4191.3	4158.3	4030.0	3982.3	3857.6	3879.6	3813.6	3809.9	3795.3	3791.6	3787.9
5°	4294.0	4191.3	4037.3	3920.0	3850.3	3843.0	3795.3	3795.3	3809.9	3820.9	3795.3
7.5°	4462.7	4345.3	4085.0	3975.0	3912.6	3901.6	3868.6	3843.0	3876.0	3865.0	3835.6
10°	4657.0	4451.7	4176.6	4081.3	3978.6	3953.0	3953.0	3964.0	3909.0	3927.3	3898.0
12.5°	4873.4	4598.3	4294.0	4184.0	4063.0	4048.3	4041.0	3960.3	3989.6	3975.0	3901.6
15°	5148.4	4767.0	4444.3	4257.3	4154.6	4088.6	3993.3	3978.6	3960.3	3923.6	3890.6
17.5°	5445.4	4950.4	4514.0	4279.3	4125.3	4077.6	4004.3	3927.3	3872.3	3879.6	3854.0
20°	5698.4	5119.0	4539.7	4301.3	4103.3	4011.6	3898.0	3850.3	3791.6	3787.9	3784.3
22.5°	5999.1	5346.4	4576.3	4242.6	4037.3	3942.0	3865.0	3780.6	3740.3	3688.9	3714.6
25°	6358.5	5434.4	4583.7	4209.6	3989.6	3820.9	3780.6	3688.9	3674.3	3600.9	3615.6
27.5°	6618.8	5482.1	4525.0	4107.0	3879.6	3751.3	3677.9	3611.9	3586.3	3531.3	3516.6
30°	6967.2	5555.4	4400.3	3978.6	3769.6	3626.6	3582.6	3567.9	3494.6	3435.9	3428.6
32.5°	7363.2	5603.1	4319.7	3846.6	3655.9	3545.9	3567.9	3498.3	3406.6	3355.2	3340.6
35°	7678.6	5621.4	4118.0	3696.3	3578.9	3509.3	3483.6	3468.9	3336.9	3289.2	3252.6
37.5°	8158.9	5581.1	3949.3	3589.9	3494.6	3468.9	3446.9	3347.9	3197.6	3127.9	3076.6
40°	8720.0	5570.1	3732.9	3439.6	3413.9	3443.3	3377.3	3223.2	3014.2	2937.2	2900.5
42.5°	9259.0	5647.1	3597.3	3358.9	3325.9	3336.9	3245.2	3014.2	2911.5	2867.5	2808.9
45°	10161.1	5808.4	3373.6	3234.2	3219.6	3212.2	3102.2	2860.2	2801.5	2746.5	2735.5
47.5°	10975.1	5702.1	3230.6	3105.9	3120.6	3080.2	2845.5	2768.5	2702.5	2647.5	2629.2
50°	11022.8	5449.1	3028.9	3006.9	3010.6	2940.9	2717.2	2665.9	2581.5	2544.9	2519.2
52.5°	10773.5	5034.7	2841.9	2849.2	2860.2	2746.5	2559.5	2522.9	2453.2	2401.8	2387.2
55°	10073.1	4389.3	2658.5	2687.9	2717.2	2500.9	2442.2	2350.5	2295.5	2222.2	2225.8
57.5°	8874.0	3534.9	2401.8	2449.5	2511.9	2273.5	2229.5	2115.8	2035.2	1976.5	1969.1
60°	5947.8	2515.5	2016.8	2035.2	2174.5	2079.2	2075.5	1961.8	1851.8	1800.5	1771.1
62.5°	3509.3	1921.5	1741.8	1723.5	1719.8	1774.8	1866.5	1826.1	1683.1	1584.1	1613.5
65°	1837.1	1661.1	1620.8	1558.4	1521.8	1507.1	1576.8	1595.1	1499.8	1393.4	1386.1
67.5°	1543.8	1543.8	1510.8	1488.8	1437.4	1375.1	1331.1	1272.4	1257.8	1228.4	1191.8
70°	1404.4	1441.1	1430.1	1378.8	1334.8	1265.1	1151.4	1056.1	964.4	931.4	953.4
72.5°	1224.8	1261.4	1261.4	1235.8	1177.1	1070.7	960.7	850.7	773.7	715.1	707.7
75°	942.4	960.7	1004.7	975.4	898.4	832.4	718.7	605.0	531.7	476.7	465.7
77.5°	601.4	630.7	630.7	627.0	572.0	509.7	436.4	355.7	300.7	260.4	249.4
80°	399.7	418.0	432.7	418.0	381.4	333.7	278.7	223.7	183.3	150.3	143.0
82.5°	293.4	315.4	326.4	311.7	275.0	238.4	198.0	157.7	117.3	91.7	84.3
85°	113.7	117.3	132.0	157.7	154.0	150.3	121.0	88.0	66.0	47.7	44.0
87.5°	29.3	25.7	29.3	29.3	25.7	22.0	22.0	22.0	22.0	11.0	14.7
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)