

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: P532522

Luminaire Tested: **GALN-SA7D-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33573 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

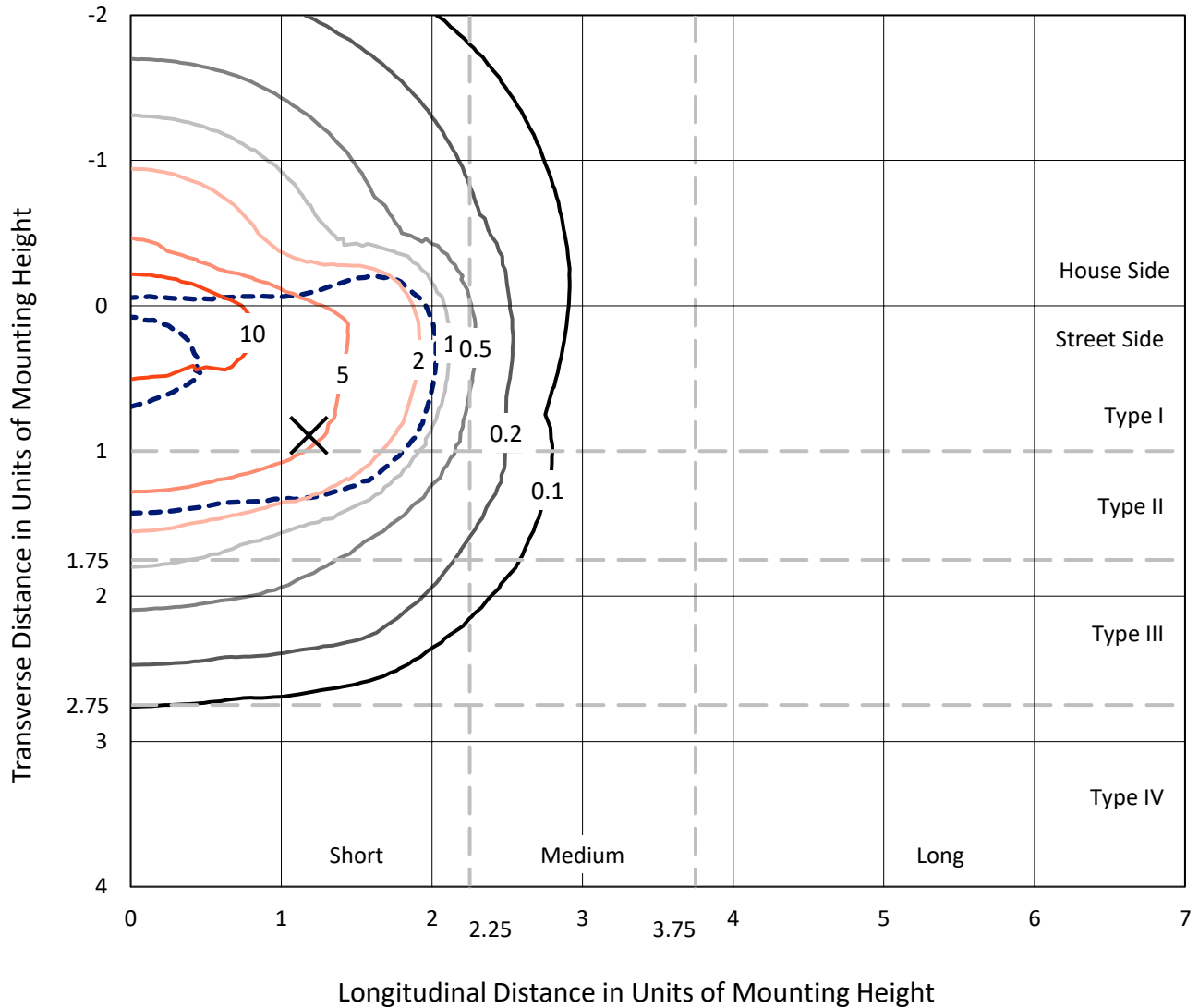
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

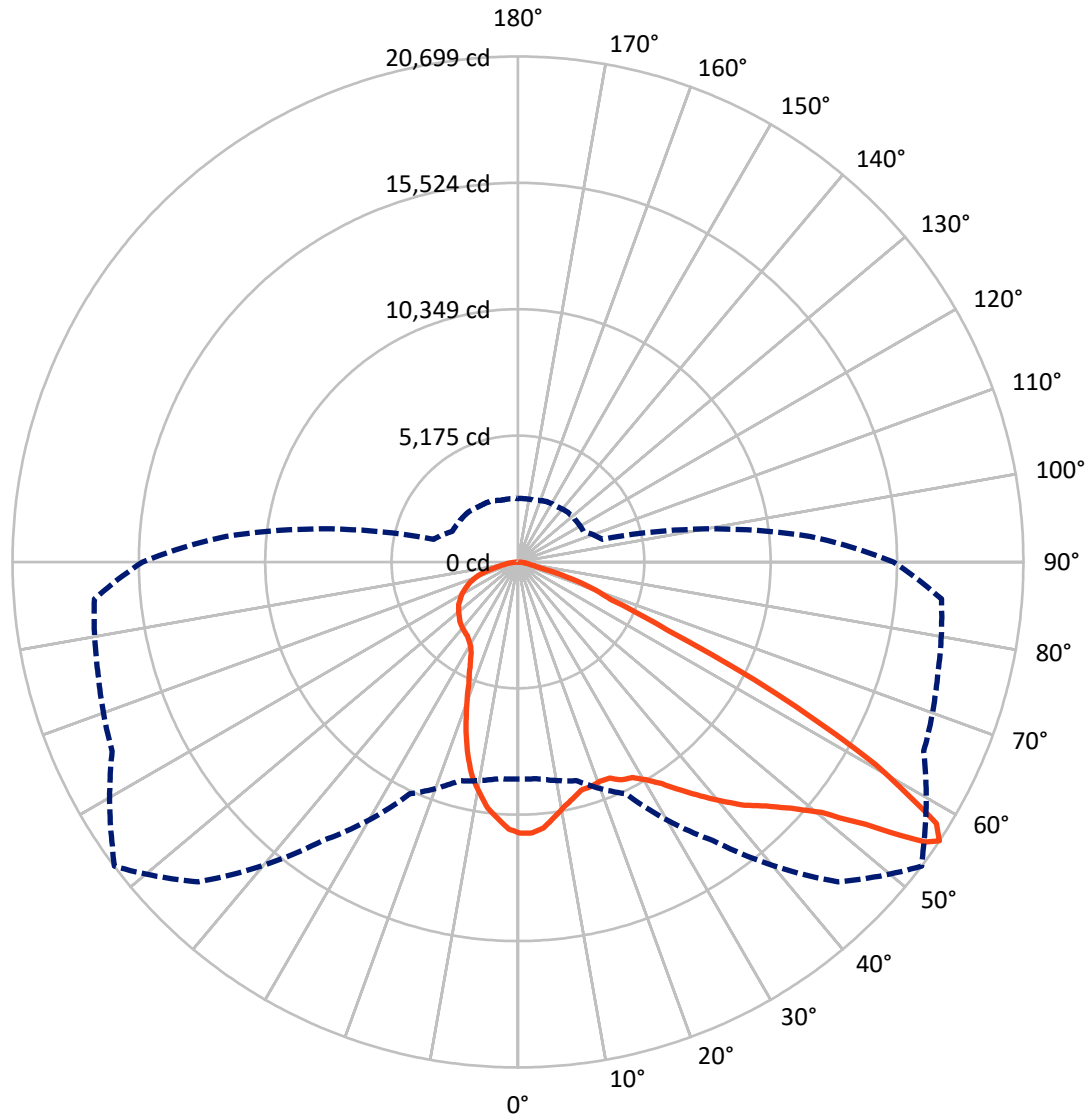
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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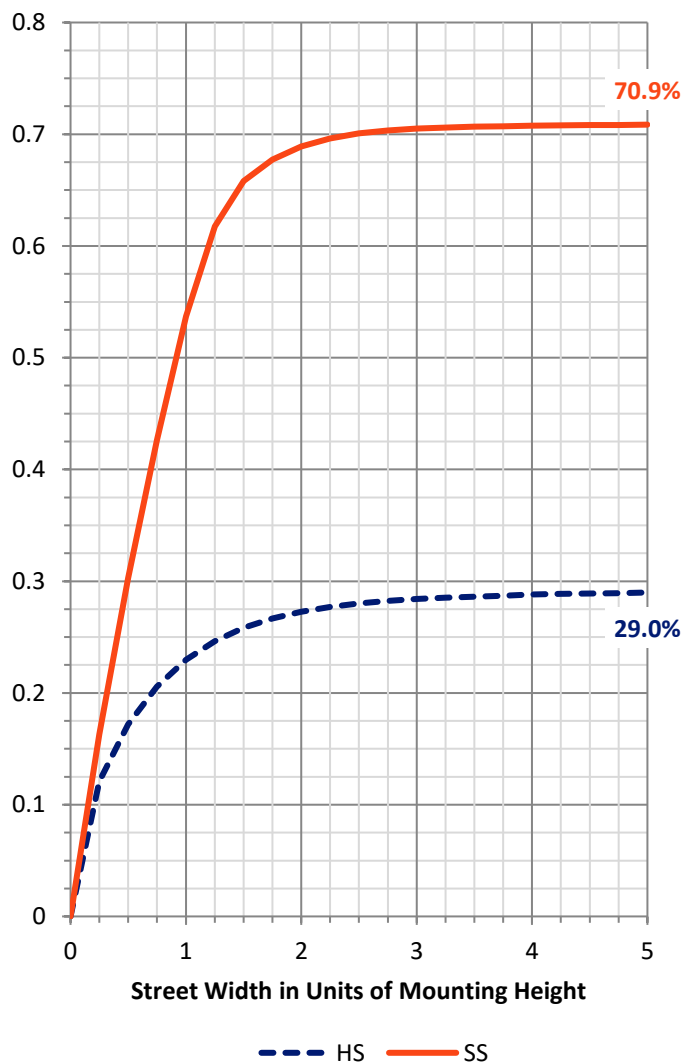
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9797.3	0.0	9797.3
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	23775.7	0.0	23775.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	33573.0	0.0	33573.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	983.3	2.9
10°-20°	2455.9	7.3
20°-30°	3621.4	10.8
30°-40°	5174.3	15.4
40°-50°	7121.7	21.2
50°-60°	8416.0	25.1
60°-70°	4485.1	13.4
70°-80°	1137.9	3.4
80°-90°	177.4	0.5
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°	33573.0	100.0
0°-180°	33573.0	100.0

Coefficient of Utilization

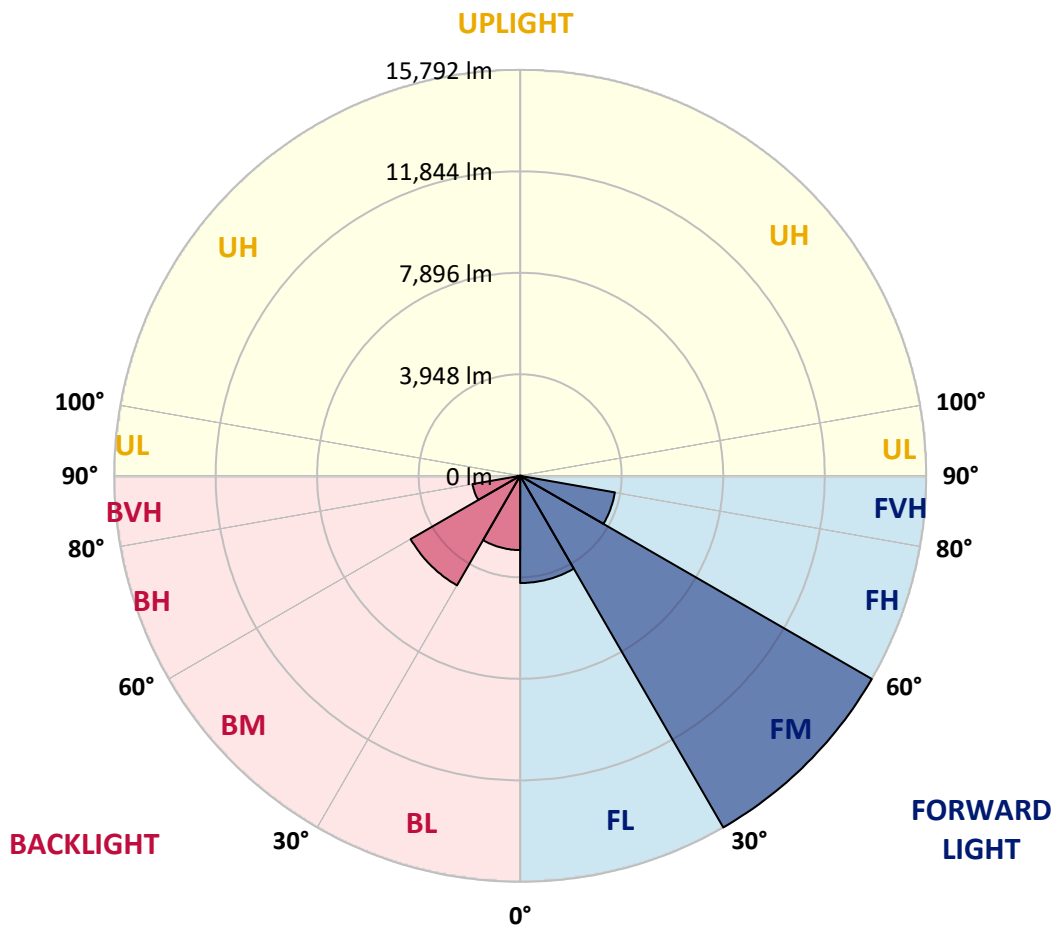


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4171.0	12.4			
FM (30°-60°)	15792.1	47.0			
FH (60°-80°)	3741.3	11.1			G2/5000
FVH (80°-90°)	71.3	0.2			G1/100
BL (0°-30°)	2889.6	8.6	B4/5000		
BM (30°-60°)	4919.9	14.7	B3/5000		
BH (60°-80°)	1881.7	5.6	B3/2500		G3/2500
BVH (80°-90°)	106.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3
2.5°	10969.5	10874.7	10930.7	10909.2	11085.7	11137.4	11111.6	11133.1	11232.2	11184.8	11085.7
5°	10250.2	10383.7	10409.6	10474.2	10577.5	10780.0	10939.3	10982.4	11029.7	11249.4	11227.9
7.5°	9595.6	9686.0	9638.6	9828.1	10052.1	10379.4	10573.2	10607.7	11042.7	11163.3	11253.7
10°	9182.1	9091.7	9307.0	9358.7	9612.8	9987.5	10220.1	10362.2	10758.4	11236.5	11292.5
12.5°	8798.8	8768.7	8897.9	9044.3	9328.6	9716.2	9953.0	10009.0	10620.6	11124.5	11387.2
15°	8514.6	8480.1	8609.3	8717.0	9048.6	9393.2	9694.6	9854.0	10469.9	11059.9	11305.4
17.5°	8290.6	8286.3	8359.5	8553.3	8893.6	9182.1	9668.8	9677.4	10392.3	11159.0	11374.3
20°	8277.7	8273.4	8286.3	8501.6	8811.7	9164.9	9587.0	9664.5	10392.3	11090.0	11378.6
22.5°	8385.4	8316.5	8394.0	8531.8	8755.8	9195.0	9617.1	9789.4	10642.1	11430.3	11572.4
25°	8557.6	8574.9	8617.9	8665.3	8794.5	9264.0	9884.1	10026.3	10935.0	11723.1	11839.4
27.5°	8872.0	8863.4	8880.6	8906.5	9018.5	9328.6	9991.8	10357.9	11546.6	12244.3	12128.0
30°	9332.9	9302.7	9371.6	9462.1	9358.7	9535.3	10349.3	10624.9	12115.1	12769.7	12451.0
32.5°	9750.6	9862.6	9991.8	10030.6	9905.7	9940.1	10823.0	11103.0	12588.8	13415.7	12847.2
35°	10271.7	10362.2	10534.5	10655.1	10633.5	10530.2	11469.0	11839.4	13273.6	13889.5	13265.0
37.5°	10780.0	10887.6	11171.9	11529.3	11331.2	11283.9	12158.1	12463.9	13484.6	14143.6	13570.8
40°	11598.2	11593.9	12084.9	12270.1	12446.7	12364.9	12873.1	12976.4	13596.6	14087.6	13579.4
42.5°	12558.7	12498.4	12998.0	13286.5	13514.8	13523.4	13618.1	13583.7	13648.3	13803.3	13488.9
45°	13471.7	13600.9	14104.8	14621.6	14849.9	14875.7	14246.9	14182.3	13738.7	13721.5	13316.7
47.5°	14587.2	14617.3	15030.8	15711.3	16241.0	16060.1	15060.9	14918.8	14135.0	14268.5	13605.2
50°	14651.8	14875.7	15246.1	16047.2	17675.2	17627.8	16116.1	15849.1	14772.4	15043.7	14410.6
52.5°	13299.4	13247.8	13687.1	14996.3	17567.5	19186.9	17864.7	17227.3	16141.9	15935.2	15715.6
55°	10133.9	10254.5	10642.1	11964.3	15254.7	19208.4	20246.3	19725.2	17606.3	17253.1	16999.0
56°	8889.3	8906.5	9272.6	10478.5	13919.6	18523.6	20698.5	20276.5	18334.1	17795.8	17408.1
57.5°	7369.0	7269.9	7459.4	8118.3	11749.0	17076.5	20203.3	20616.7	19186.9	18381.5	17843.1
60°	5801.3	5779.7	5702.2	5822.8	7424.9	12864.5	16818.1	17748.4	19100.7	17830.2	17089.4
62.5°	4737.5	4629.8	4784.9	4957.1	5159.6	7980.5	11817.9	12364.9	15164.3	14234.0	12838.6
65°	3673.7	3622.0	3815.8	4375.7	4496.3	5069.1	6731.5	7153.6	8953.9	8794.5	7743.7
67.5°	2528.1	2536.7	2704.7	3557.4	4169.0	4117.3	4121.6	4341.3	4672.9	3471.3	3023.4
70°	1602.1	1597.8	1688.3	2291.2	3355.0	3389.5	3217.2	3152.6	2988.9	1808.9	1916.5
72.5°	1029.3	999.2	1046.6	1266.2	1735.6	2007.0	2067.3	2106.0	1731.3	1421.2	1541.8
75°	581.4	551.3	534.0	590.0	684.8	792.5	870.0	895.8	1003.5	1076.7	1141.3
77.5°	176.6	159.4	193.8	258.4	340.2	456.5	555.6	572.8	676.2	762.3	826.9
80°	77.5	86.1	120.6	172.3	241.2	323.0	391.9	417.8	486.7	551.3	568.5
82.5°	47.4	51.7	81.8	116.3	168.0	228.3	279.9	288.6	357.5	409.1	422.1
85°	17.2	21.5	43.1	68.9	107.7	146.4	146.4	159.4	146.4	146.4	159.4
87.5°	0.0	0.0	4.3	8.6	8.6	12.9	17.2	17.2	21.5	25.8	30.1
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°	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3	11107.3
2.5°	11137.4	11115.9	11081.4	10956.5	10943.6	10904.9	10689.5	10655.1	10689.5	10586.1	10594.8
5°	11115.9	11180.5	10922.1	10797.2	10564.6	10396.6	10202.8	10103.8	9927.2	9815.2	9940.1
7.5°	11210.6	11184.8	10861.8	10590.5	10241.6	9815.2	9475.0	9281.2	8971.1	8885.0	8949.6
10°	11176.2	11038.4	10659.4	10301.9	9643.0	9268.3	8717.0	8182.9	7890.1	7739.3	7717.8
12.5°	11128.8	11090.0	10456.9	9841.1	9147.7	8359.5	7584.3	7080.4	6602.3	6395.6	6425.8
15°	11184.8	10857.5	10077.9	9298.4	8376.8	7343.1	6507.6	5857.3	5525.6	5392.1	5392.1
17.5°	11159.0	10745.5	9897.1	8691.1	7524.0	6300.9	5383.5	4991.6	4853.8	4853.8	4892.5
20°	11171.9	10818.7	9531.0	8083.9	6516.2	5306.0	4638.4	4496.3	4556.6	4578.1	4599.7
22.5°	11245.1	10577.5	9173.5	7416.3	5581.6	4539.4	4212.1	4216.4	4324.0	4440.3	4418.8
25°	11335.5	10482.8	8738.5	6753.1	4866.7	4164.7	4061.3	4048.4	4130.2	4190.5	4199.1
27.5°	11258.0	10319.1	8294.9	5926.2	4281.0	3914.9	3893.4	3902.0	3927.8	4048.4	4009.6
30°	11512.1	10366.5	7739.3	5232.8	3958.0	3833.1	3807.2	3794.3	3833.1	3867.5	3837.4
32.5°	11826.5	10198.5	7325.9	4565.2	3798.6	3772.8	3721.1	3703.9	3725.4	3690.9	3708.2
35°	11964.3	10168.4	6787.5	4087.2	3673.7	3652.2	3622.0	3617.7	3622.0	3591.9	3566.0
37.5°	12041.9	10310.5	6171.7	3867.5	3596.2	3617.7	3548.8	3540.2	3462.7	3479.9	3492.8
40°	12175.4	10090.9	5672.1	3656.5	3548.8	3505.7	3445.5	3432.5	3380.8	3350.7	3380.8
42.5°	11981.6	10026.3	5181.1	3566.0	3479.9	3432.5	3389.5	3316.2	3299.0	3273.2	3256.0
45°	11826.5	9655.9	4741.8	3454.1	3398.1	3372.2	3290.4	3212.9	3148.3	3174.1	3135.4
47.5°	11942.8	9526.7	4306.8	3359.3	3286.1	3256.0	3174.1	3113.8	3049.2	3019.1	3010.5
50°	12407.9	9767.9	3940.7	3290.4	3191.3	3174.1	3066.5	2997.5	2937.2	2915.7	2924.3
52.5°	13519.1	10426.8	3690.9	3148.3	3100.9	3023.4	2963.1	2877.0	2838.2	2769.3	2812.3
55°	14927.4	11499.2	3626.3	3014.8	2988.9	2920.0	2838.2	2773.6	2700.4	2644.4	2631.5
56°	15379.6	12011.7	3574.7	2963.1	2920.0	2881.3	2773.6	2734.8	2618.5	2605.6	2597.0
57.5°	15745.7	12463.9	3583.3	2864.0	2821.0	2786.5	2721.9	2627.2	2549.6	2502.3	2523.8
60°	14918.8	11667.2	3419.6	2713.3	2704.7	2640.1	2549.6	2506.6	2411.8	2355.8	2342.9
62.5°	11090.0	7920.2	2773.6	2519.5	2515.2	2446.3	2342.9	2295.5	2278.3	2200.8	2200.8
65°	6387.0	4965.8	2398.9	2360.1	2325.7	2256.8	2153.4	2114.6	2071.6	2045.7	2024.2
67.5°	2726.2	2575.5	2179.2	2174.9	2136.2	2050.0	1946.7	1886.4	1830.4	1778.7	1804.6
70°	1976.8	2007.0	1968.2	1946.7	1899.3	1791.6	1701.2	1628.0	1541.8	1507.4	1533.2
72.5°	1567.7	1632.3	1688.3	1692.6	1636.6	1511.7	1412.6	1313.6	1218.8	1171.5	1193.0
75°	1188.7	1231.7	1287.7	1300.7	1218.8	1132.7	1037.9	934.6	861.4	805.4	814.0
77.5°	857.1	848.4	900.1	891.5	852.7	792.5	706.3	611.6	529.7	478.1	482.4
80°	585.7	598.6	628.8	624.5	577.1	538.4	473.7	396.2	335.9	292.9	284.2
82.5°	409.1	430.7	456.5	435.0	396.2	357.5	310.1	254.1	206.7	172.3	163.7
85°	146.4	168.0	193.8	206.7	219.6	211.0	176.6	142.1	103.4	86.1	81.8
87.5°	30.1	34.5	38.8	38.8	38.8	34.5	30.1	30.1	25.8	12.9	12.9
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)