

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: P534390

Luminaire Tested: **GALN-SA9D-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
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-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46520 lumens
Efficiency: N/A
Efficacy: 84.3 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

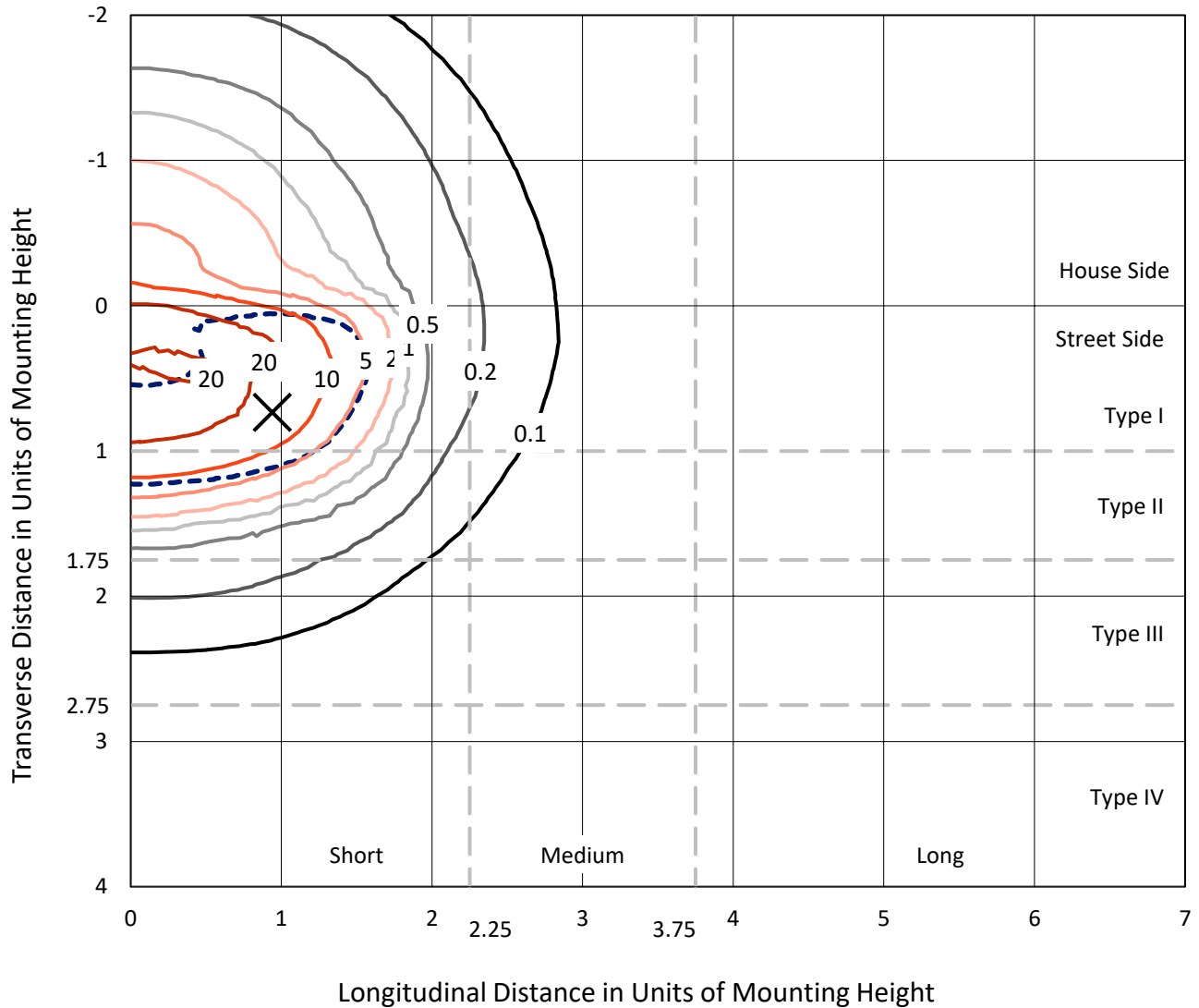
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P534390
 CATALOG NUMBER: GALN-SA9D-827-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

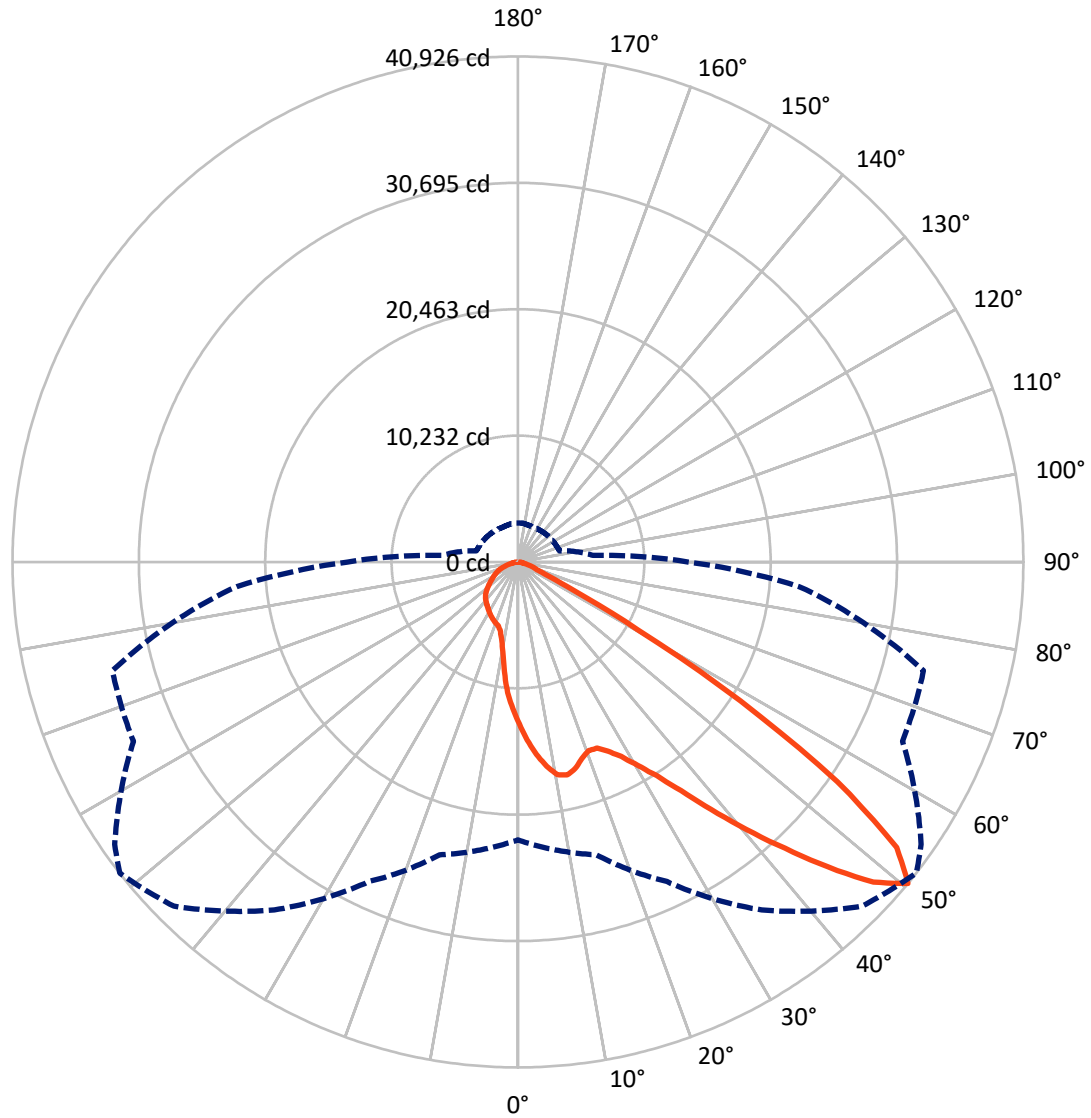
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.8 fc
 Type II - Short - N/A

REPORT NUMBER: P534390
CATALOG NUMBER: GALN-SA9D-827-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P534390
 CATALOG NUMBER: GALN-SA9D-827-U-AFL-GRSWH

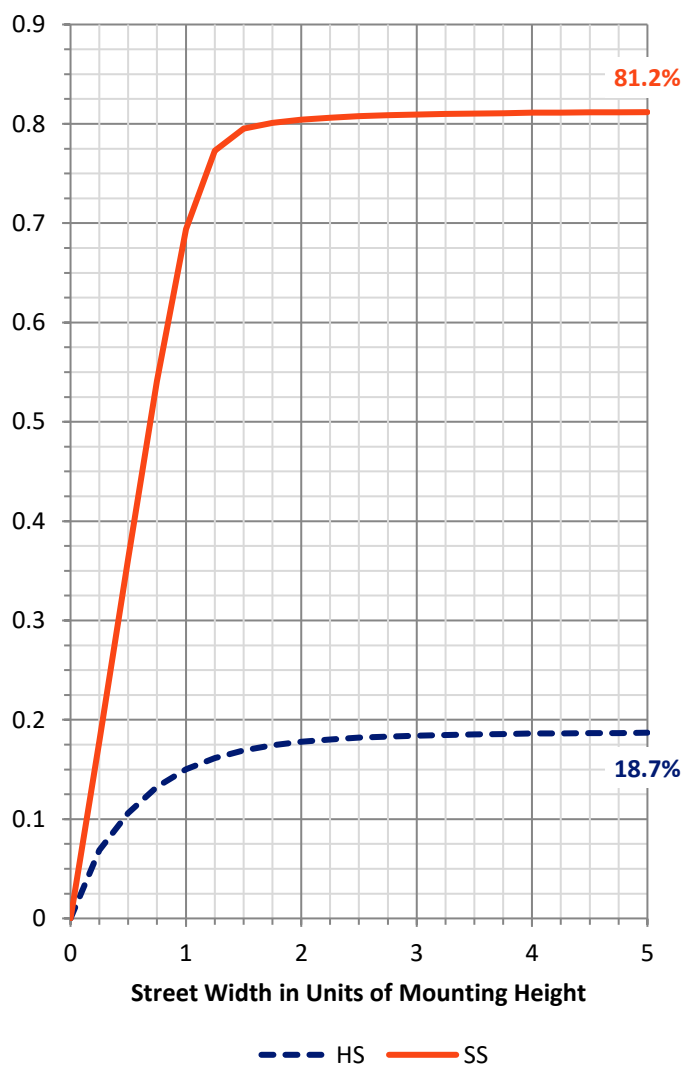
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8744.7	0.0	8744.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	37775.3	0.0	37775.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	46520.0	0.0	46520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1208.6	2.6
10°-20°	3239.5	7.0
20°-30°	5456.7	11.7
30°-40°	9156.9	19.7
40°-50°	14007.8	30.1
50°-60°	10212.8	22.0
60°-70°	2272.9	4.9
70°-80°	819.8	1.8
80°-90°	145.1	0.3
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°	46520.0	100.0
0°-180°	46520.0	100.0

Coefficient of Utilization



REPORT NUMBER: P534390

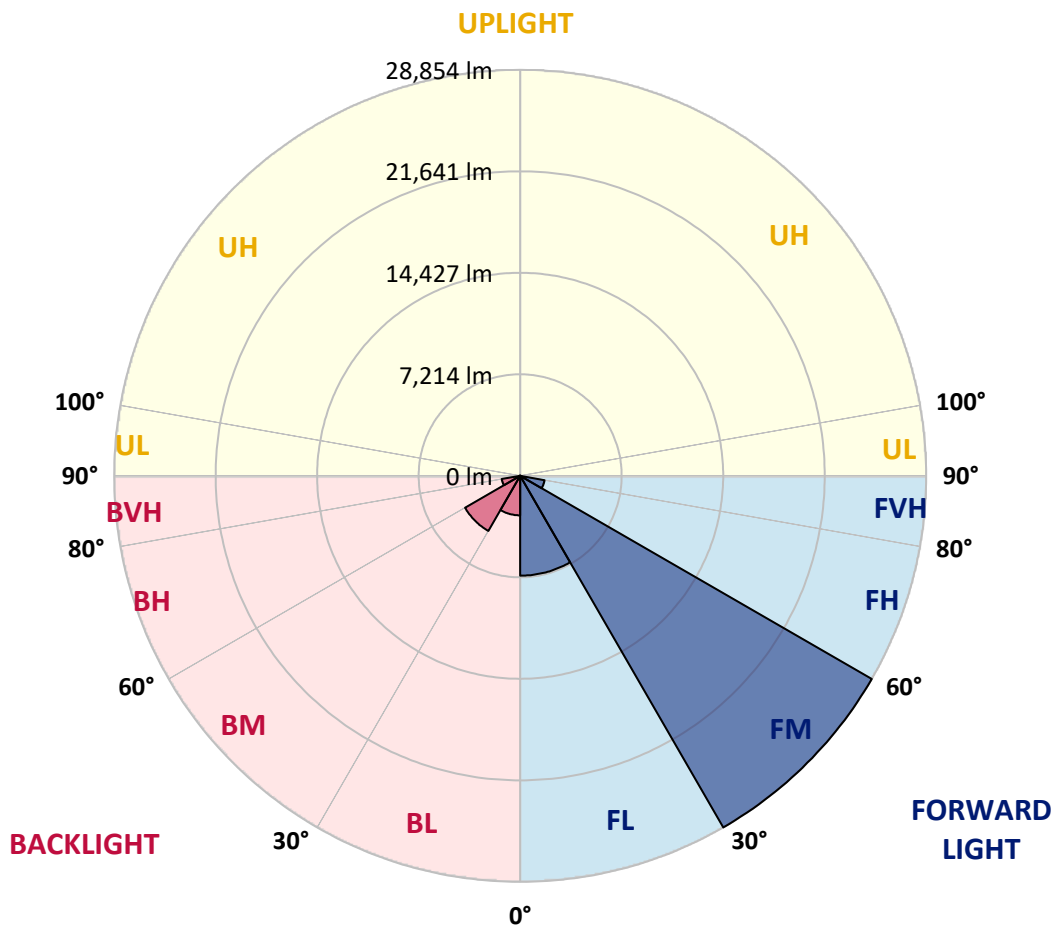
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7095.9	15.3			
FM (30°-60°)	28854.1	62.0			
FH (60°-80°)	1760.4	3.8			G1/1800
FVH (80°-90°)	65.0	0.1			G1/100
BL (0°-30°)	2809.0	6.0	B4/5000		
BM (30°-60°)	4523.3	9.7	B3/5000		
BH (60°-80°)	1332.3	2.9	B3/2500		G3/2500
BVH (80°-90°)	80.1	0.2			G1/100
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





REPORT NUMBER: P534390

CATALOG NUMBER: GALN-SA9D-827-U-AFL-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2
2.5°	15439.8	15142.7	15176.3	14963.3	14733.4	14666.2	14430.7	14206.5	14038.3	13679.5	13348.7
5°	16875.1	16785.4	16650.8	16482.6	16308.8	15882.7	15641.7	15361.4	14744.7	14189.6	13640.2
7.5°	17082.5	17065.7	17138.6	17138.6	17200.2	17037.7	16695.7	16499.4	15843.5	14940.9	13920.5
10°	15624.9	15675.3	16028.5	16488.2	17127.4	17570.3	17514.2	17463.7	16746.1	15512.7	14251.3
12.5°	14464.3	14352.2	14559.7	14952.1	15910.8	16981.6	17704.8	17710.4	17525.4	16426.6	14492.4
15°	13808.4	13886.9	13943.0	14128.0	14851.2	16090.2	17362.8	17738.4	18551.4	17071.3	14873.6
17.5°	14228.9	13965.4	13954.2	13999.0	14369.0	15299.7	16729.3	17374.0	19112.0	17901.0	15344.5
20°	14778.3	14772.7	14615.7	14559.7	14554.0	15383.8	16314.4	17189.0	19409.1	18977.4	15821.1
22.5°	15742.6	15742.6	15484.7	15361.4	15097.9	15776.2	16370.5	16964.8	19902.5	19717.5	16050.9
25°	17357.2	17093.7	16650.8	16348.1	16196.7	16437.8	16964.8	17497.4	20334.2	20502.4	16527.5
27.5°	18848.5	18433.6	18215.0	17693.6	17491.8	17351.6	17833.8	18372.0	20838.7	21724.5	16785.4
30°	20541.6	20468.7	20076.3	19403.5	18904.6	18646.7	19089.6	19622.2	21763.8	22974.8	17379.6
32.5°	23569.0	22907.5	22374.9	21550.8	20737.8	20188.4	20625.7	20978.9	23299.9	24281.0	18030.0
35°	26837.5	26624.5	25705.0	24219.4	22974.8	22481.4	22739.3	23002.8	25088.3	26276.9	19123.2
37.5°	30050.0	29758.4	29001.6	27751.4	26237.6	25234.1	25419.1	25727.5	27095.4	28967.9	20457.5
40°	32359.8	32001.0	31619.7	31434.7	29932.2	28558.7	28452.1	28530.6	29808.9	31490.8	21937.6
42.5°	32528.0	32970.9	33088.6	33834.2	33481.0	32354.2	31698.2	31715.0	32399.0	33985.6	23434.5
45°	32174.8	31765.5	32634.5	34669.6	35835.7	36362.7	35258.2	35118.1	34002.4	35432.0	24180.1
47.5°	28469.0	28581.1	30050.0	33268.0	36637.4	38992.1	38734.2	38268.8	34860.2	35381.6	24062.4
50°	22503.8	23182.2	24544.5	28553.1	34394.9	39406.9	40926.2	39849.8	34350.0	33991.2	22862.6
52.5°	14985.7	15266.0	16163.1	21337.7	27656.0	35224.6	38403.4	38650.1	33879.1	32169.1	21343.3
55°	6671.5	6649.1	7910.5	11145.4	17351.6	26803.9	31378.7	32881.2	32068.2	30313.5	19863.2
57.5°	2825.6	2920.9	3436.7	4815.8	8532.8	16174.3	21259.2	22576.7	24662.3	24892.1	15238.0
60°	1911.8	1923.0	2063.1	2410.7	3571.2	7596.6	11151.0	12732.0	14223.3	14122.4	8084.3
62.5°	1502.5	1541.7	1648.3	1788.4	2119.2	3447.9	4989.6	5869.8	5965.1	5017.7	3066.7
65°	1283.9	1289.5	1396.0	1513.7	1659.5	2007.1	2405.1	2450.0	2478.0	2388.3	2253.7
67.5°	1059.6	1070.8	1154.9	1289.5	1424.0	1536.1	1648.3	1704.3	1833.3	2085.6	2051.9
70°	841.0	857.8	930.7	1042.8	1166.1	1233.4	1373.6	1424.0	1541.7	1738.0	1816.5
72.5°	639.1	644.7	706.4	784.9	897.0	964.3	1082.0	1138.1	1216.6	1384.8	1457.6
75°	459.7	476.5	521.4	560.6	577.5	622.3	734.4	796.1	908.2	981.1	986.7
77.5°	241.1	252.3	263.5	263.5	319.6	403.7	476.5	510.2	588.7	644.7	616.7
80°	95.3	100.9	128.9	173.8	224.3	291.5	342.0	358.8	426.1	459.7	476.5
82.5°	56.1	61.7	84.1	123.3	162.6	207.4	246.7	263.5	308.3	347.6	358.8
85°	28.0	33.6	50.5	78.5	106.5	128.9	123.3	117.7	117.7	112.1	117.7
87.5°	11.2	11.2	16.8	16.8	16.8	22.4	28.0	28.0	28.0	33.6	33.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P534390

CATALOG NUMBER: GALN-SA9D-827-U-AFL-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2	13113.2
2.5°	13130.0	12905.8	12698.3	12317.1	11902.2	11784.5	11302.4	11128.6	11005.2	10859.5	10814.6
5°	13197.3	12900.2	12233.0	11465.0	10853.9	10069.0	9553.2	8998.2	8594.5	8493.6	8465.6
7.5°	13337.5	12827.3	11678.0	10517.5	9267.3	8202.1	7389.1	6951.9	6565.0	6542.6	6503.3
10°	13494.4	12608.6	11072.5	9250.5	7652.6	6665.9	6178.2	5987.6	5892.3	5869.8	5858.6
12.5°	13623.4	12563.8	10394.1	8017.1	6509.0	5914.7	5768.9	5752.1	5791.3	5802.6	5825.0
15°	13679.5	12384.4	9575.6	6912.6	5797.0	5578.3	5640.0	5707.2	5735.3	5808.2	5752.1
17.5°	13786.0	12154.5	8566.5	6038.0	5398.9	5438.1	5544.7	5623.2	5668.0	5718.5	5645.6
20°	13842.0	11947.1	7619.0	5516.6	5258.7	5331.6	5477.4	5539.1	5595.1	5617.5	5533.5
22.5°	13791.6	11521.0	6783.7	5096.2	5124.2	5219.5	5348.4	5415.7	5382.1	5292.4	5241.9
25°	13657.0	10921.1	5914.7	4827.1	4933.6	5101.8	5202.7	5152.2	5090.6	5040.1	5023.3
27.5°	13651.4	10186.7	5286.8	4580.4	4771.0	5000.9	4967.2	4922.4	4950.4	4911.1	4866.3
30°	13679.5	9474.7	4771.0	4440.2	4653.3	4765.4	4804.6	4759.8	4793.4	4720.5	4743.0
32.5°	13533.7	8779.5	4434.6	4277.6	4513.1	4507.5	4636.4	4670.1	4591.6	4440.2	4462.6
35°	13595.4	8218.9	4148.7	4204.8	4356.1	4356.1	4457.0	4417.8	4210.4	4120.7	4143.1
37.5°	14021.4	7669.5	4008.5	4103.8	4204.8	4249.6	4216.0	4047.8	3997.3	3997.3	4008.5
40°	14425.1	7198.5	3924.4	4081.4	4064.6	4092.6	3845.9	3862.8	3862.8	3868.4	3840.3
42.5°	14783.9	6879.0	3857.2	3946.9	3974.9	3829.1	3677.8	3660.9	3700.2	3694.6	3672.1
45°	14912.9	6615.5	3761.9	3795.5	3817.9	3576.8	3504.0	3470.3	3515.2	3532.0	3554.4
47.5°	14419.5	6396.8	3655.3	3588.1	3543.2	3386.2	3290.9	3229.2	3285.3	3380.6	3403.0
50°	13786.0	6110.9	3487.1	3358.2	3262.9	3195.6	3128.3	3066.7	3105.9	3173.2	3156.4
52.5°	12849.7	5662.4	3274.1	3139.5	2977.0	2993.8	2932.1	2898.5	2920.9	2920.9	2904.1
55°	11515.4	4653.3	2915.3	2820.0	2685.4	2730.3	2741.5	2696.6	2651.8	2691.0	2657.4
57.5°	7860.1	3285.3	2601.3	2601.3	2466.8	2528.5	2522.9	2416.3	2309.8	2321.0	2298.6
60°	4546.7	2618.2	2399.5	2377.1	2236.9	2287.4	2298.6	2225.7	2063.1	2074.3	2051.9
62.5°	2584.5	2236.9	2096.8	2063.1	2035.1	2080.0	2080.0	1984.6	1844.5	1855.7	1833.3
65°	2197.7	2074.3	1872.5	1866.9	1855.7	1866.9	1822.1	1721.1	1597.8	1547.3	1553.0
67.5°	1995.9	1917.4	1721.1	1670.7	1637.0	1631.4	1547.3	1452.0	1396.0	1351.1	1345.5
70°	1749.2	1687.5	1541.7	1474.5	1440.8	1362.3	1278.2	1216.6	1138.1	1115.7	1138.1
72.5°	1384.8	1379.2	1323.1	1250.2	1177.3	1115.7	1042.8	958.7	885.8	869.0	829.7
75°	958.7	969.9	981.1	969.9	908.2	829.7	745.6	678.4	588.7	538.2	527.0
77.5°	627.9	644.7	661.5	639.1	599.9	527.0	470.9	386.8	319.6	280.3	274.7
80°	459.7	482.1	493.4	476.5	431.7	375.6	314.0	246.7	196.2	162.6	162.6
82.5°	353.2	375.6	386.8	358.8	314.0	269.1	224.3	173.8	134.6	106.5	100.9
85°	123.3	117.7	140.2	145.8	173.8	162.6	134.6	100.9	78.5	56.1	50.5
87.5°	33.6	33.6	39.2	39.2	33.6	28.0	28.0	28.0	22.4	16.8	16.8
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)