

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: P647648

Luminaire Tested: **GALN-SA9D-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647648
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-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 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: 49549.8 lumens
Efficiency: N/A
Efficacy: 89.8 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

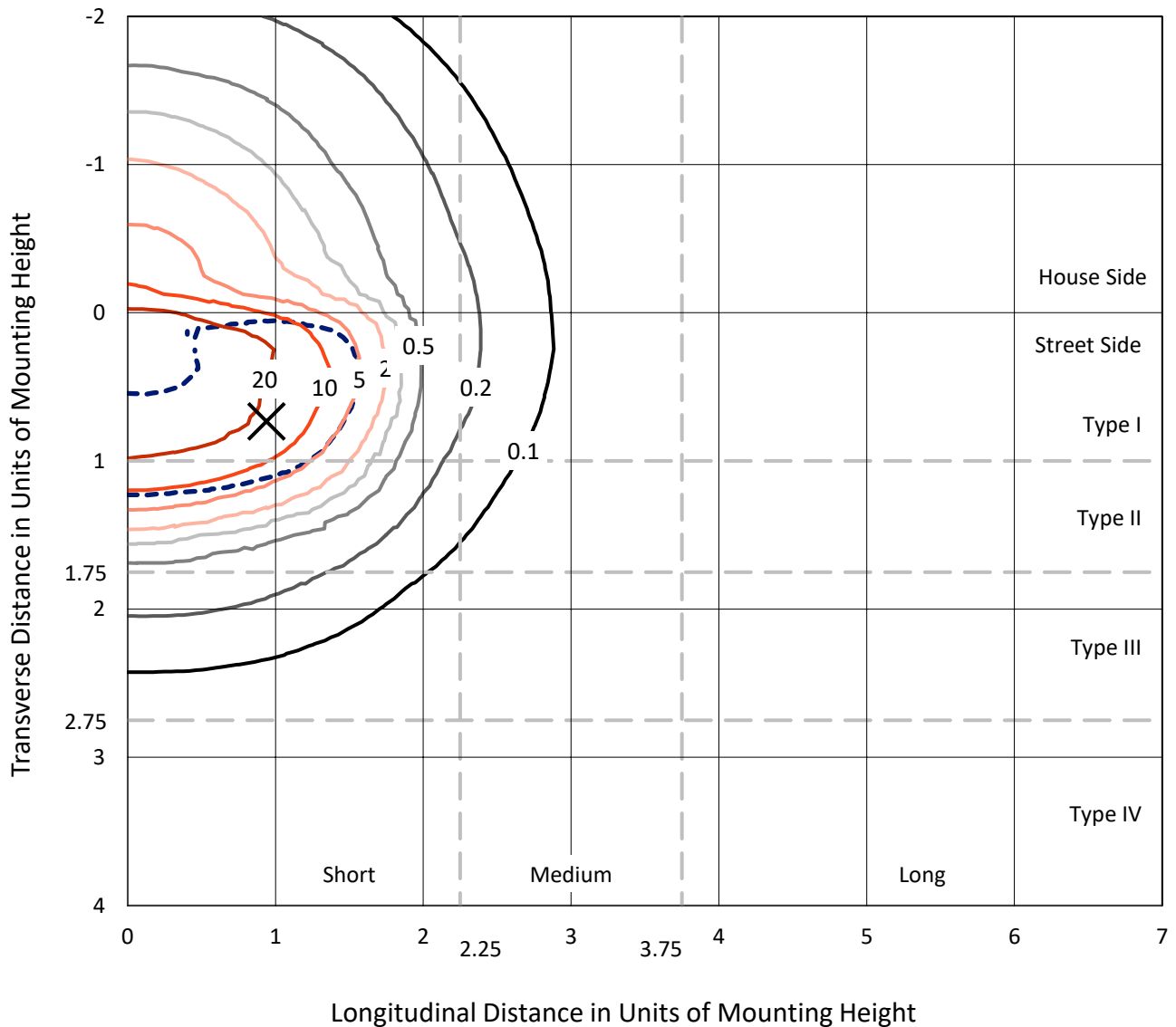
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

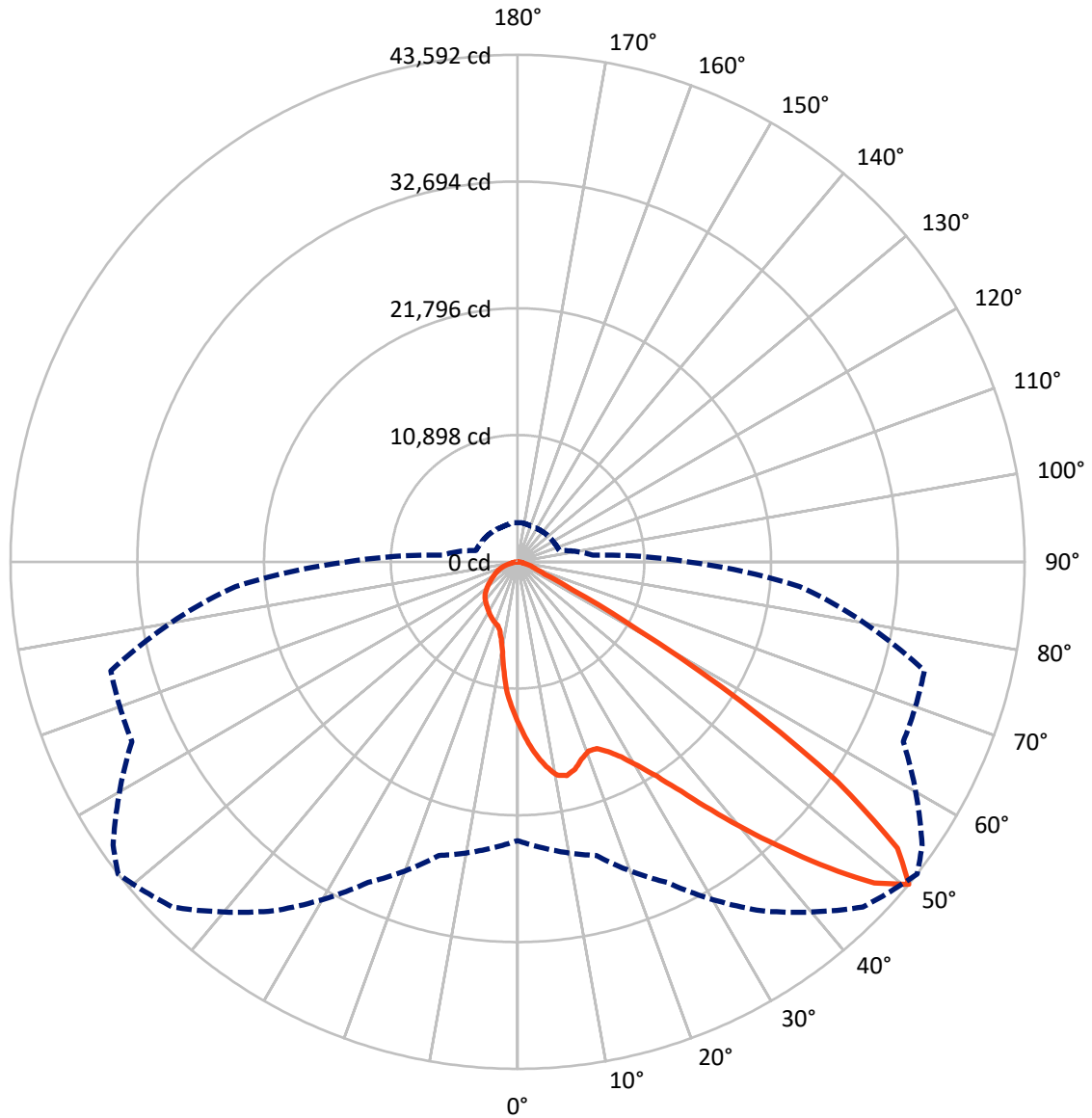
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 28.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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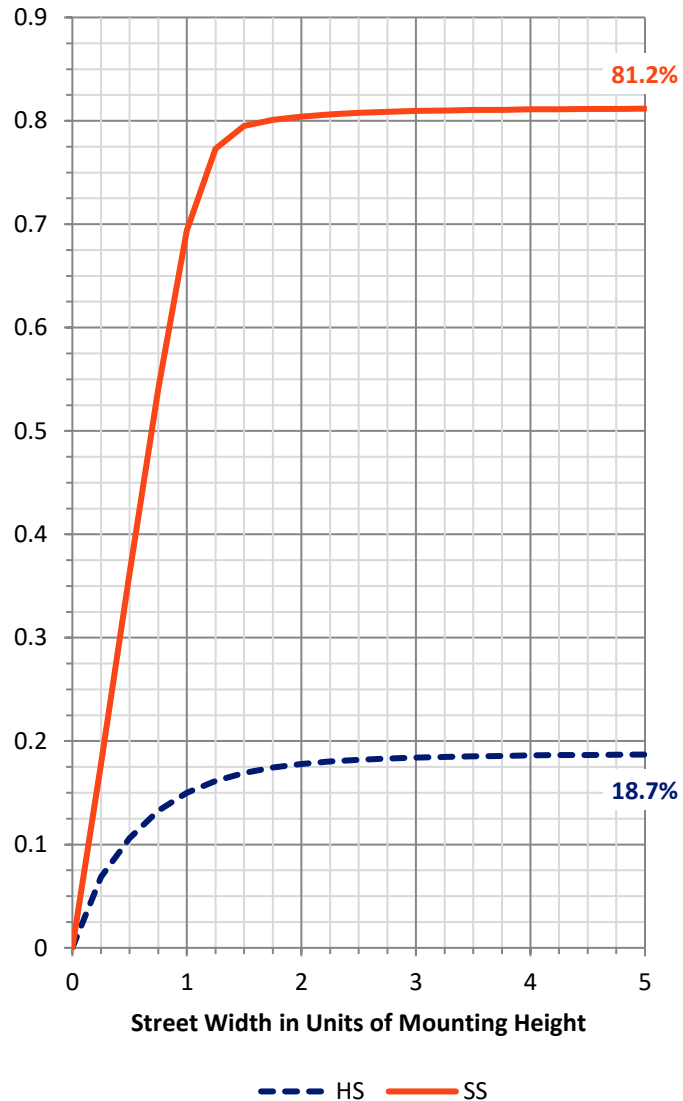
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9314.2	0.0	9314.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	40235.6	0.0	40235.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	49549.8	0.0	49549.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1287.4	2.6
10°-20°	3450.4	7.0
20°-30°	5812.1	11.7
30°-40°	9753.2	19.7
40°-50°	14920.1	30.1
50°-60°	10877.9	22.0
60°-70°	2420.9	4.9
70°-80°	873.2	1.8
80°-90°	154.6	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°	49549.8	100.0
0°-180°	49549.8	100.0

Coefficient of Utilization

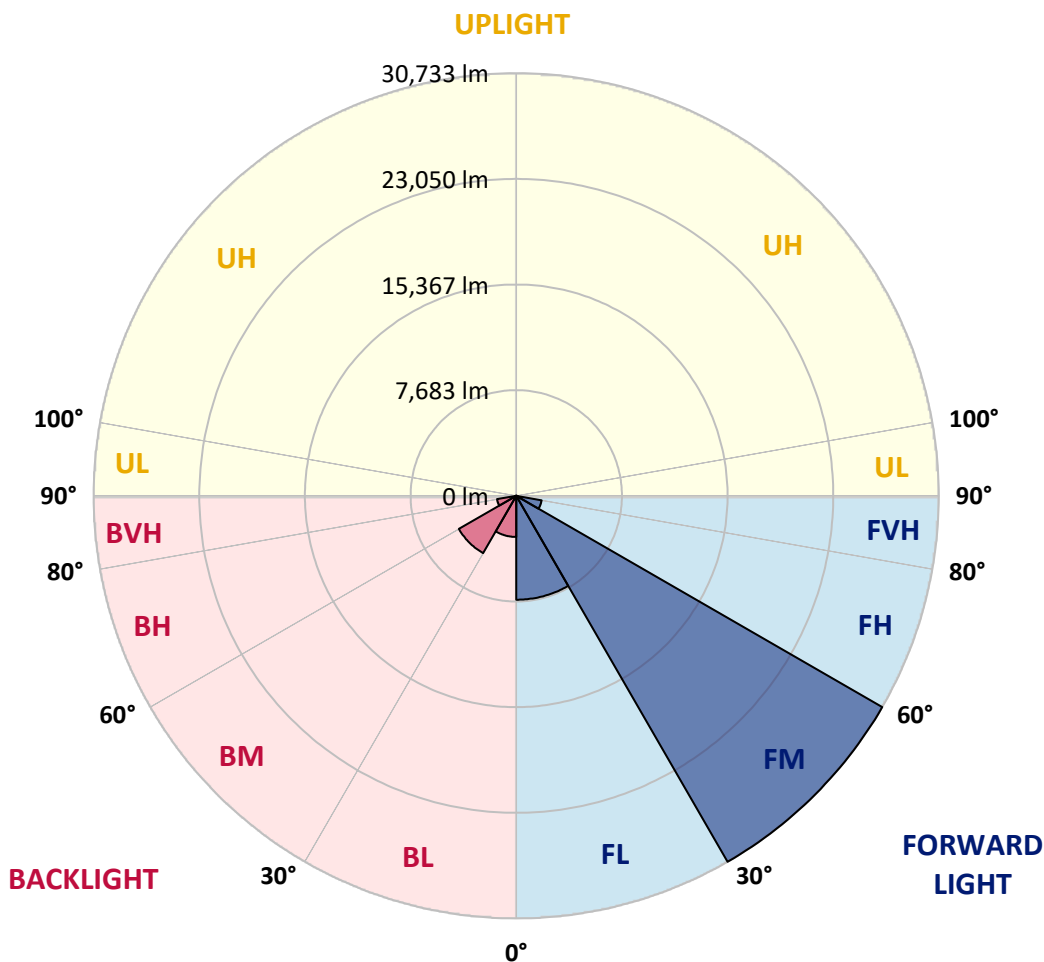


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7558.0	15.3			
FM (30°-60°)	30733.3	62.0			
FH (60°-80°)	1875.0	3.8			G2/5000
FVH (80°-90°)	69.3	0.1			G1/100
BL (0°-30°)	2991.9	6.0	B4/5000		
BM (30°-60°)	4817.9	9.7	B3/5000		
BH (60°-80°)	1419.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	85.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2
2.5°	16445.4	16128.9	16164.8	15937.9	15693.0	15621.4	15370.6	15131.7	14952.6	14570.4	14218.1
5°	17974.2	17878.6	17735.3	17556.1	17371.0	16917.2	16660.4	16361.8	15704.9	15113.8	14528.6
7.5°	18195.0	18177.2	18254.8	18254.8	18320.5	18147.3	17783.0	17574.0	16875.4	15914.0	14827.1
10°	16642.5	16696.2	17072.5	17562.1	18242.8	18714.6	18654.9	18601.1	17836.8	16523.0	15179.5
12.5°	15406.4	15287.0	15507.9	15925.9	16947.0	18087.6	18857.9	18863.9	18666.8	17496.4	15436.2
15°	14707.7	14791.3	14851.1	15048.1	15818.4	17138.1	18493.7	18893.7	19759.6	18183.1	15842.3
17.5°	15155.6	14875.0	14863.0	14910.7	15304.9	16296.1	17818.9	18505.6	20356.7	19066.9	16344.0
20°	15740.8	15734.9	15567.6	15507.9	15501.9	16385.7	17377.0	18308.5	20673.2	20213.5	16851.5
22.5°	16767.9	16767.9	16493.2	16361.8	16081.2	16803.7	17436.7	18069.7	21198.7	21001.6	17096.3
25°	18487.6	18207.0	17735.3	17412.8	17251.6	17508.3	18069.7	18637.0	21658.5	21837.6	17603.9
27.5°	20076.1	19634.2	19401.3	18845.9	18631.0	18481.7	18995.3	19568.5	22195.9	23139.5	17878.6
30°	21879.4	21801.9	21383.8	20667.3	20135.8	19861.1	20332.9	20900.1	23181.3	24471.1	18511.5
32.5°	25104.1	24399.5	23832.2	22954.3	22088.4	21503.3	21969.0	22345.3	24817.4	25862.4	19204.2
35°	28585.5	28358.5	27379.2	25796.7	24471.1	23945.6	24220.3	24500.9	26722.3	27988.3	20368.6
37.5°	32007.1	31696.5	30890.4	29558.8	27946.4	26877.6	27074.7	27403.0	28860.1	30854.6	21789.9
40°	34467.3	34085.2	33679.1	33482.0	31881.6	30418.7	30305.2	30388.8	31750.3	33541.8	23366.4
42.5°	34646.5	35118.3	35243.6	36037.8	35661.7	34461.3	33762.7	33780.6	34509.2	36199.0	24960.7
45°	34270.3	33834.4	34760.0	36927.5	38169.6	38730.9	37554.6	37405.3	36217.0	37739.7	25755.0
47.5°	30323.2	30442.6	32007.1	35434.7	39023.5	41531.6	41256.9	40761.3	37130.6	37685.9	25629.5
50°	23969.5	24692.1	26143.1	30412.7	36635.0	41973.5	43591.7	42445.2	36587.2	36205.1	24351.7
52.5°	15961.8	16260.3	17215.7	22727.4	29457.2	37518.8	40904.5	41167.3	36085.6	34264.3	22733.4
55°	7106.0	7082.2	8425.7	11871.3	18481.7	28549.6	33422.4	35022.7	34156.8	32287.7	21156.9
57.5°	3009.6	3111.2	3660.5	5129.5	9088.6	17227.7	22643.8	24047.1	26268.5	26513.3	16230.5
60°	2036.3	2048.2	2197.5	2567.8	3803.8	8091.4	11877.2	13561.2	15149.6	15042.1	8610.9
62.5°	1600.4	1642.2	1755.6	1904.9	2257.2	3672.4	5314.6	6252.1	6353.7	5344.4	3266.4
65°	1367.4	1373.5	1486.9	1612.3	1767.5	2137.8	2561.7	2609.5	2639.4	2543.8	2400.5
67.5°	1128.6	1140.5	1230.1	1373.5	1516.7	1636.2	1755.6	1815.3	1952.6	2221.4	2185.6
70°	895.8	913.6	991.3	1110.7	1242.1	1313.7	1463.0	1516.7	1642.2	1851.2	1934.8
72.5°	680.7	686.7	752.4	836.0	955.4	1027.1	1152.5	1212.2	1295.8	1474.9	1552.6
75°	489.7	507.5	555.4	597.1	615.0	662.8	782.3	847.9	967.4	1045.0	1050.9
77.5°	256.7	268.7	280.6	280.6	340.4	429.9	507.5	543.4	627.0	686.7	656.9
80°	101.5	107.5	137.3	185.1	238.9	310.5	364.3	382.2	453.8	489.7	507.5
82.5°	59.7	65.7	89.6	131.4	173.2	221.0	262.8	280.6	328.5	370.2	382.2
85°	29.8	35.9	53.7	83.6	113.5	137.3	131.4	125.4	125.4	119.4	125.4
87.5°	12.0	12.0	17.9	17.9	17.9	23.9	29.8	29.8	29.8	35.9	35.9
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°	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2	13967.2
2.5°	13985.2	13746.3	13525.4	13119.3	12677.4	12552.0	12038.5	11853.4	11722.0	11566.7	11518.9
5°	14056.8	13740.3	13029.7	12211.7	11560.8	10724.8	10175.4	9584.2	9154.3	9046.8	9016.9
7.5°	14206.1	13662.7	12438.6	11202.5	9870.8	8736.2	7870.4	7404.6	6992.6	6968.7	6926.9
10°	14373.3	13429.9	11793.6	9853.0	8151.0	7100.1	6580.6	6377.5	6276.0	6252.1	6240.2
12.5°	14510.6	13382.1	11071.1	8539.2	6932.8	6299.9	6144.7	6126.7	6168.6	6180.5	6204.3
15°	14570.4	13191.0	10199.3	7362.8	6174.5	5941.6	6007.3	6079.0	6108.8	6186.4	6126.7
17.5°	14683.8	12946.1	9124.4	6431.2	5750.5	5792.3	5905.8	5989.4	6037.2	6090.9	6013.3
20°	14743.6	12725.2	8115.2	5875.9	5601.3	5678.9	5834.1	5899.8	5959.5	5983.5	5893.9
22.5°	14689.8	12271.3	7225.4	5428.1	5457.9	5559.5	5696.8	5768.4	5732.6	5637.1	5583.3
25°	14546.5	11632.4	6299.9	5141.4	5254.9	5434.0	5541.5	5487.8	5422.1	5368.3	5350.5
27.5°	14540.5	10850.2	5631.1	4878.7	5081.7	5326.5	5290.7	5243.0	5272.8	5231.0	5183.2
30°	14570.4	10091.8	5081.7	4729.4	4956.3	5075.7	5117.5	5069.8	5105.6	5028.0	5051.8
32.5°	14415.1	9351.3	4723.4	4556.2	4807.1	4801.0	4938.4	4974.2	4890.6	4729.4	4753.3
35°	14480.8	8754.2	4418.9	4478.6	4639.8	4639.8	4747.3	4705.5	4484.6	4389.0	4412.9
37.5°	14934.6	8169.0	4269.6	4371.1	4478.6	4526.4	4490.6	4311.4	4257.6	4257.6	4269.6
40°	15364.6	7667.4	4180.0	4347.2	4329.3	4359.2	4096.4	4114.4	4114.4	4120.3	4090.5
42.5°	15746.8	7327.0	4108.4	4203.9	4233.8	4078.5	3917.3	3899.3	3941.2	3935.2	3911.3
45°	15884.1	7046.4	4006.8	4042.7	4066.6	3809.8	3732.2	3696.3	3744.1	3762.0	3785.9
47.5°	15358.6	6813.4	3893.4	3821.7	3774.0	3606.7	3505.3	3439.6	3499.3	3600.8	3624.7
50°	14683.8	6508.9	3714.2	3576.9	3475.4	3403.7	3332.1	3266.4	3308.2	3379.8	3362.0
52.5°	13686.6	6031.2	3487.3	3344.0	3170.8	3188.8	3123.1	3087.2	3111.2	3111.2	3093.2
55°	12265.4	4956.3	3105.1	3003.7	2860.3	2908.1	2920.0	2872.3	2824.5	2866.3	2830.5
57.5°	8372.0	3499.3	2770.7	2770.7	2627.4	2693.1	2687.2	2573.7	2460.3	2472.2	2448.3
60°	4842.9	2788.7	2555.8	2531.9	2382.6	2436.4	2448.3	2370.7	2197.5	2209.5	2185.6
62.5°	2752.9	2382.6	2233.4	2197.5	2167.7	2215.4	2215.4	2113.9	1964.6	1976.5	1952.6
65°	2340.8	2209.5	1994.5	1988.5	1976.5	1988.5	1940.7	1833.2	1701.9	1648.1	1654.1
67.5°	2125.8	2042.2	1833.2	1779.5	1743.7	1737.7	1648.1	1546.6	1486.9	1439.2	1433.1
70°	1863.1	1797.4	1642.2	1570.5	1534.7	1451.1	1361.5	1295.8	1212.2	1188.4	1212.2
72.5°	1474.9	1469.0	1409.2	1331.6	1254.0	1188.4	1110.7	1021.1	943.5	925.6	883.8
75°	1021.1	1033.1	1045.0	1033.1	967.4	883.8	794.2	722.6	627.0	573.2	561.3
77.5°	668.8	686.7	704.6	680.7	638.9	561.3	501.6	412.0	340.4	298.6	292.6
80°	489.7	513.6	525.5	507.5	459.8	400.1	334.4	262.8	209.0	173.2	173.2
82.5°	376.2	400.1	412.0	382.2	334.4	286.7	238.9	185.1	143.3	113.5	107.5
85°	131.4	125.4	149.3	155.3	185.1	173.2	143.3	107.5	83.6	59.7	53.7
87.5°	35.9	35.9	41.8	41.8	35.9	29.8	29.8	29.8	23.9	17.9	17.9
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)