

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: P190923

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-AFL-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20128.6 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 210
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: 25 FT

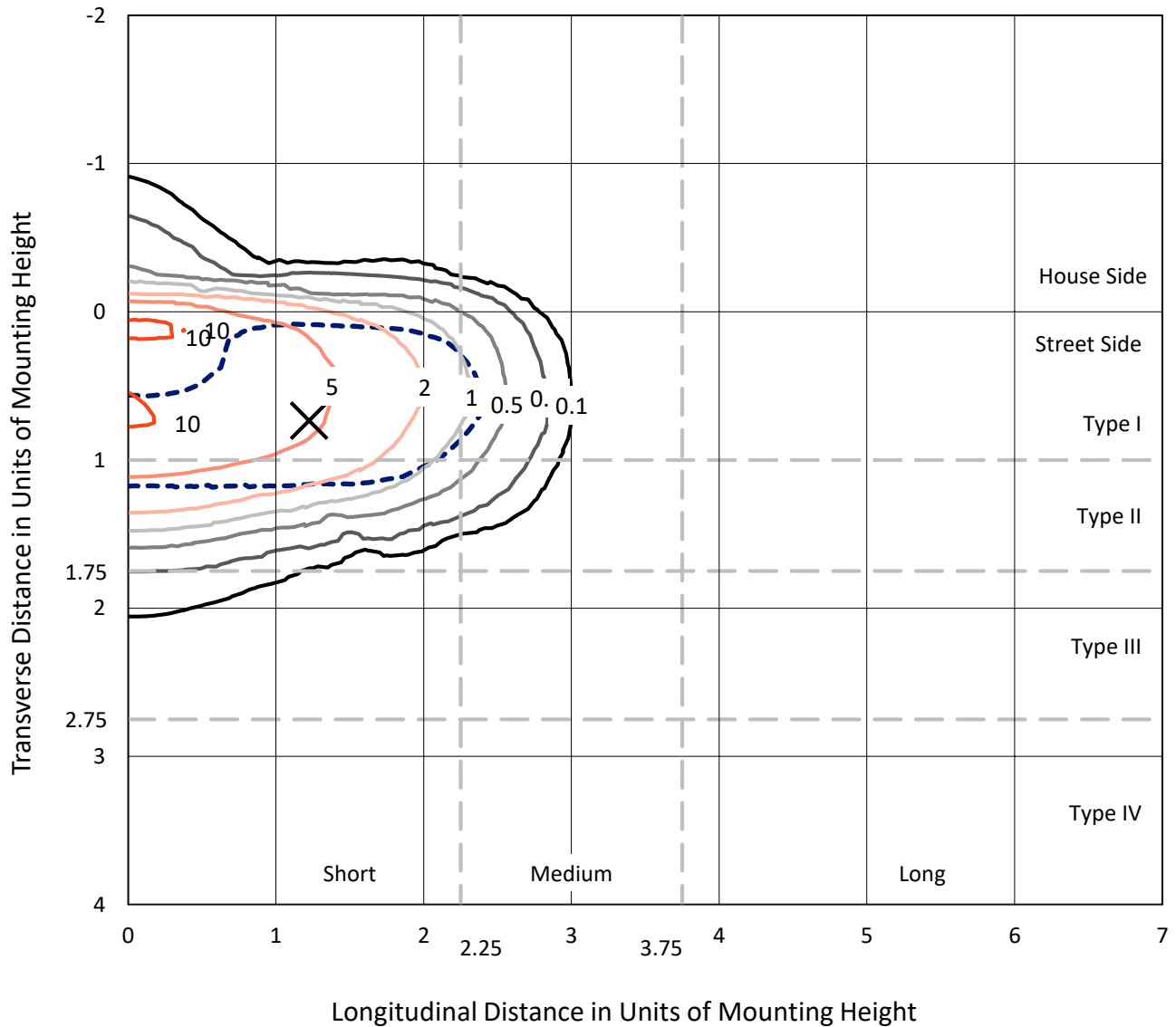


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

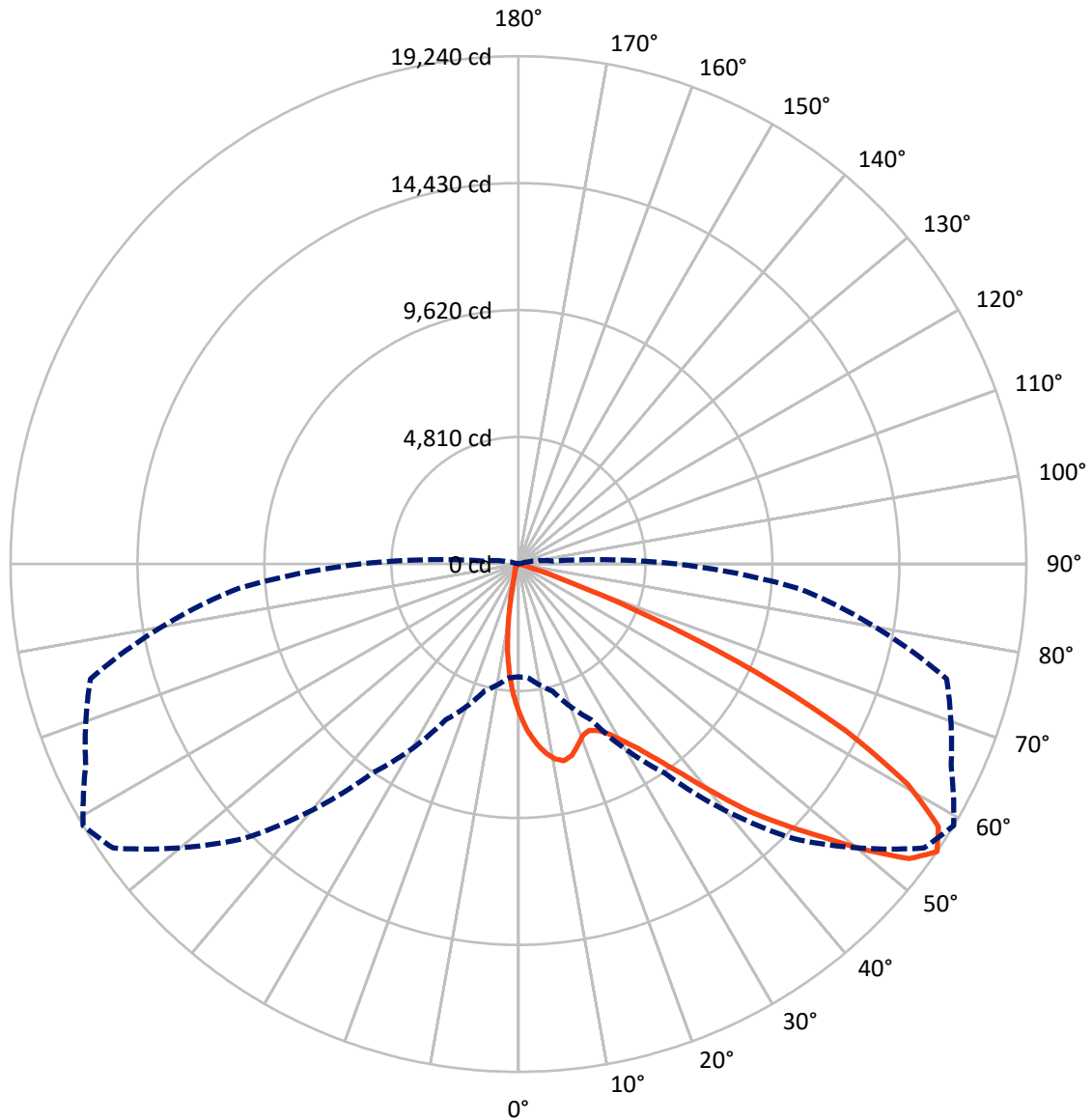


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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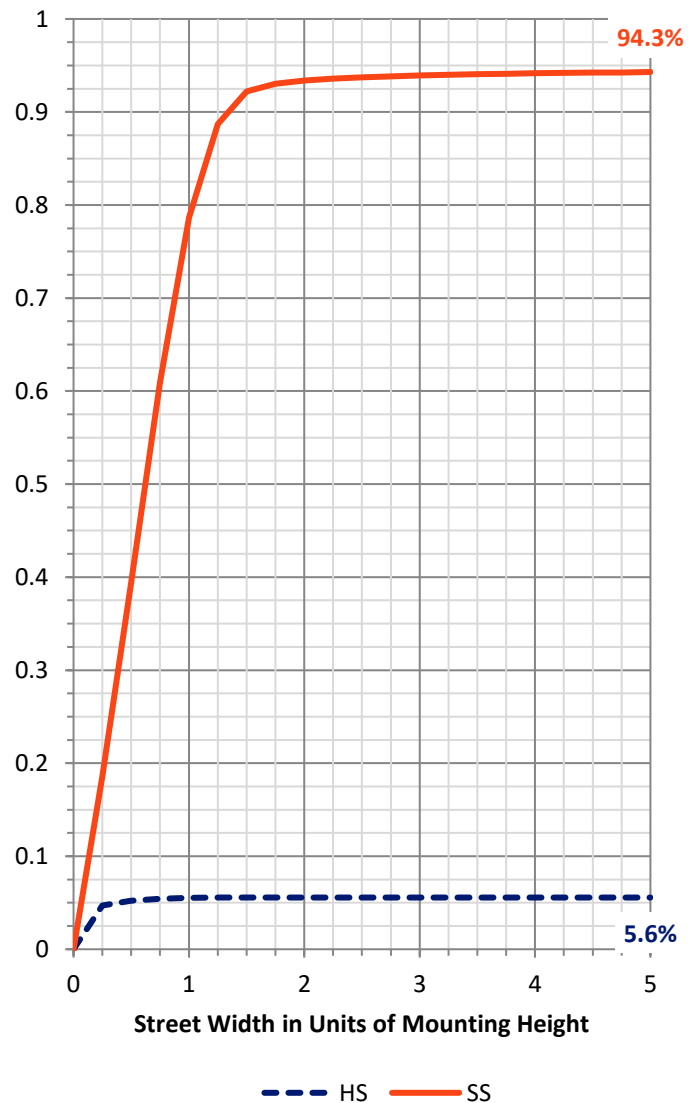
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1124.3	0.0	1124.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	19004.3	0.0	19004.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	20128.6	0.0	20128.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.6	2.4
10°-20°	1136.3	5.6
20°-30°	1933.6	9.6
30°-40°	3325.3	16.5
40°-50°	5134.0	25.5
50°-60°	5161.3	25.6
60°-70°	2646.7	13.1
70°-80°	286.8	1.4
80°-90°	30.0	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°	20128.6	100.0
0°-180°	20128.6	100.0

Coefficient of Utilization



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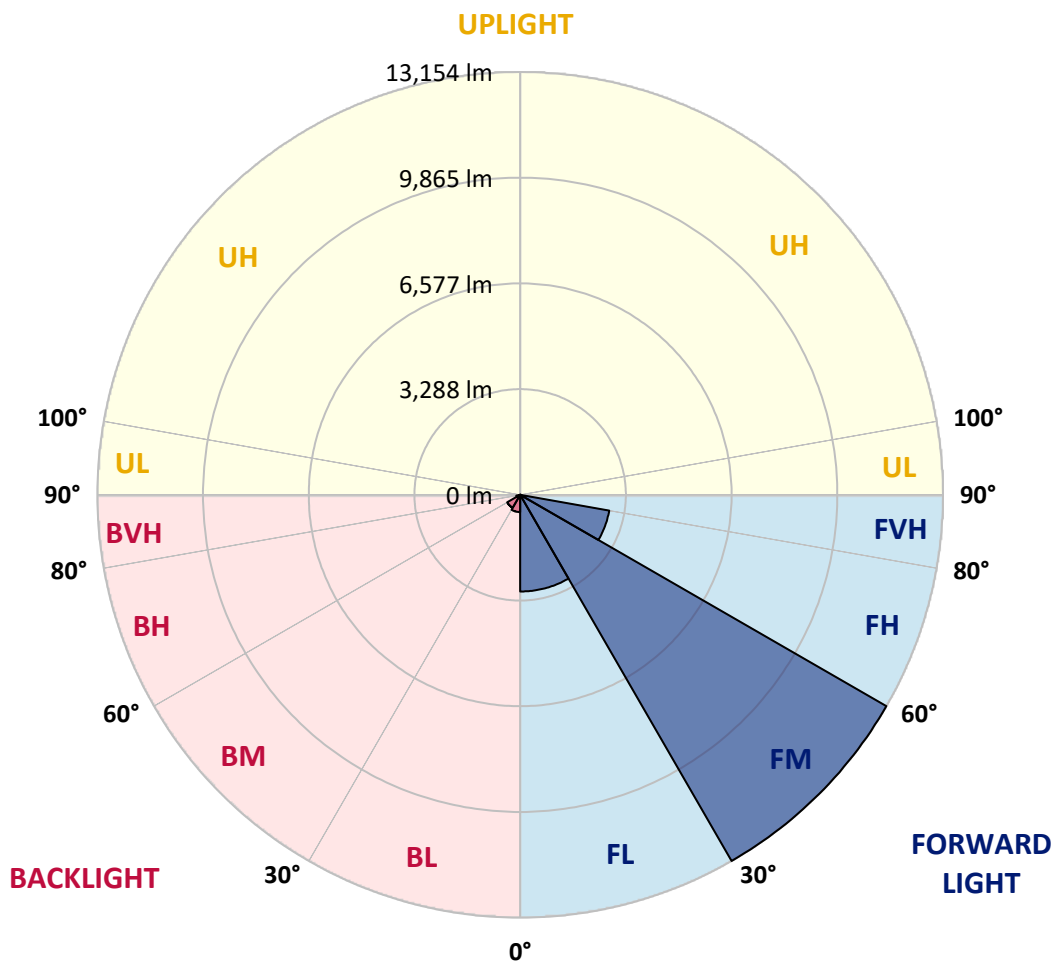
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3007.9	14.9			
FM	(30°-60°)	13154.0	65.3			
FH	(60°-80°)	2813.1	14.0			G2/5000
FVH	(80°-90°)	29.4	0.1			G1/100
BL	(0°-30°)	536.6	2.7	B2/1000		
BM	(30°-60°)	466.6	2.3	B1/1000		
BH	(60°-80°)	120.5	0.6	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1
2.5°	6704.3	6633.0	6611.6	6597.4	6532.1	6450.1	6338.5	6286.2	6179.3	6007.1	5795.6
5°	7318.5	7305.4	7257.8	7231.8	7161.7	7045.3	6867.1	6781.6	6611.6	6321.8	5942.9
7.5°	7050.0	7131.9	7197.3	7306.5	7444.3	7439.6	7290.0	7200.9	7010.8	6628.3	6106.8
10°	6013.0	6079.5	6186.4	6434.7	6940.7	7387.3	7563.2	7499.0	7346.9	6909.8	6264.9
12.5°	5809.8	5802.7	5821.7	5894.2	6159.1	6795.8	7516.8	7646.4	7615.5	7167.6	6414.5
15°	5918.0	5909.7	5907.2	5932.2	5996.3	6264.9	7168.7	7540.6	7779.3	7406.4	6541.6
17.5°	6220.9	6185.3	6166.2	6146.0	6127.1	6193.6	6750.7	7244.8	7804.3	7615.5	6647.3
20°	6739.9	6680.6	6610.5	6496.5	6389.6	6356.3	6574.8	6940.7	7715.2	7774.6	6716.2
22.5°	7392.1	7316.0	7194.9	6987.1	6769.7	6643.8	6661.6	6844.5	7582.1	7948.0	6748.3
25°	8125.0	8027.6	7866.1	7577.4	7257.8	7034.5	6918.1	6982.3	7521.6	8151.2	6785.1
27.5°	8910.2	8802.1	8590.6	8197.5	7835.2	7533.4	7295.9	7287.6	7625.0	8417.2	6844.5
30°	9688.3	9671.6	9396.0	8980.3	8500.4	8133.4	7791.2	7747.3	7913.5	8785.5	6962.1
32.5°	10726.5	10601.8	10264.4	9836.7	9283.2	8842.5	8437.4	8335.3	8356.7	9214.3	7143.9
35°	12035.4	11898.9	11423.7	10833.4	10214.5	9694.2	9246.4	9107.3	9055.2	9916.3	7450.4
37.5°	12881.2	12878.8	12580.7	11979.7	11315.7	10741.9	10254.9	10092.1	9986.5	10764.4	7925.4
40°	12903.8	12959.7	12998.8	12992.9	12520.1	11991.5	11559.1	11358.4	11112.5	11897.6	8539.6
42.5°	12211.3	12355.0	12700.7	13287.5	13567.8	13357.6	12992.9	12795.7	12429.9	13110.5	9288.0
45°	11275.3	11375.0	11979.7	13060.6	14135.6	14711.8	14433.7	14081.0	13598.7	14375.5	9959.0
47.5°	10856.0	10873.8	11264.5	12451.3	14178.4	15821.2	15989.8	15416.2	14660.6	15394.8	10484.1
50°	9602.7	9634.8	10174.1	11395.3	13677.2	16345.0	17553.1	17009.1	15818.8	16179.9	10675.4
52.5°	7237.7	7282.8	7967.0	9659.7	12299.1	16121.7	18672.1	18540.3	17087.5	16563.6	10686.1
55°	4270.4	4329.7	4983.1	6502.4	9674.0	14701.0	18755.3	19239.9	18088.8	16790.5	10669.4
57.5°	1994.4	2036.0	2410.2	3349.8	6016.6	11618.6	17503.2	18760.0	18641.2	16910.5	10787.0
60°	1059.6	1071.4	1161.8	1450.3	2719.0	7367.2	15059.8	16940.2	18137.5	17076.8	10930.7
62.5°	810.1	813.7	808.9	843.4	1142.7	3270.2	11383.3	13926.6	16109.8	16952.0	10771.6
65°	702.1	708.0	674.7	666.4	732.9	1166.5	6762.5	9927.0	12659.1	15268.9	9687.0
67.5°	629.5	632.0	591.6	557.1	569.0	630.8	2668.0	5434.5	8379.2	11192.1	7021.5
70°	579.7	577.4	533.4	478.7	463.3	431.2	848.1	1992.1	4004.3	5675.6	3265.5
72.5°	513.1	514.3	493.0	421.7	384.8	301.7	393.2	580.8	1195.0	1546.6	765.0
75°	454.9	449.0	422.9	377.8	317.1	198.4	194.8	258.9	368.3	365.9	165.1
77.5°	329.1	323.2	331.4	310.1	243.5	128.3	97.4	124.7	149.7	145.0	46.3
80°	241.1	237.5	213.8	257.8	215.0	87.9	60.6	66.5	77.2	65.4	14.2
82.5°	165.1	163.9	150.9	142.5	122.3	53.5	38.1	41.5	49.9	36.8	7.2
85°	26.1	29.7	109.3	86.7	72.4	23.7	26.1	28.5	33.2	20.2	2.4
87.5°	0.0	0.0	51.0	45.1	14.2	9.5	15.4	16.7	16.7	10.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1	5666.1
2.5°	5687.5	5568.7	5349.0	5122.1	4911.8	4661.2	4488.9	4359.5	4209.9	4169.4	4257.3
5°	5726.7	5502.2	5029.4	4515.1	4031.7	3495.9	3086.0	2761.8	2468.4	2368.6	2458.9
7.5°	5788.5	5454.7	4683.8	3836.8	2995.8	2159.6	1587.0	1210.5	970.5	899.2	937.2
10°	5850.3	5385.8	4283.4	3033.8	1884.0	1051.3	684.3	546.5	495.3	484.7	490.6
12.5°	5901.3	5293.2	3795.2	2157.2	1007.3	563.0	447.8	425.2	418.1	418.1	420.5
15°	5932.2	5153.0	3216.8	1372.0	579.7	425.2	390.8	383.7	383.7	384.8	387.3
17.5°	5928.6	4974.8	2583.6	830.3	433.5	376.5	356.4	350.5	349.2	351.6	352.8
20°	5884.7	4742.0	1948.1	547.6	377.8	343.3	323.2	312.4	311.2	313.6	316.0
22.5°	5801.6	4454.5	1393.4	421.7	340.9	311.2	286.3	276.8	276.8	279.2	281.5
25°	5700.6	4102.9	952.7	357.5	307.7	276.8	253.0	244.7	247.0	253.0	254.2
27.5°	5574.7	3707.4	647.4	306.5	267.3	242.3	224.5	218.6	224.5	232.8	235.2
30°	5466.5	3295.1	462.1	264.9	226.9	209.1	198.4	198.4	206.7	222.1	225.7
32.5°	5383.4	2896.0	356.4	234.1	197.2	181.8	175.8	181.8	194.8	210.2	213.8
35°	5372.7	2567.0	301.7	209.1	175.8	160.4	157.9	168.7	181.8	193.6	196.0
37.5°	5454.7	2262.9	272.0	188.8	156.8	142.5	140.1	153.2	166.3	180.6	184.1
40°	5610.3	2024.1	250.6	169.9	141.4	125.9	121.1	130.6	148.5	167.5	172.3
42.5°	5812.2	1827.0	226.9	150.9	125.9	104.5	98.6	109.3	128.3	148.5	154.5
45°	6004.7	1657.1	200.7	129.5	105.7	80.8	78.4	92.7	102.2	122.3	127.2
47.5°	6110.4	1507.4	178.2	105.7	81.9	65.4	65.4	68.9	78.4	102.2	106.9
50°	6074.8	1387.4	154.5	78.4	57.0	49.9	49.9	48.7	62.9	81.9	85.5
52.5°	6003.5	1318.6	133.1	60.6	39.2	35.6	32.1	35.6	44.0	52.3	53.5
55°	5992.8	1306.6	111.7	48.7	27.3	23.7	17.8	17.8	17.8	16.7	14.2
57.5°	6075.9	1325.6	93.8	39.2	20.2	15.4	9.5	0.0	0.0	0.0	0.0
60°	6161.4	1345.9	80.8	27.3	14.2	8.3	1.2	0.0	0.0	0.0	0.0
62.5°	6018.9	1300.7	67.7	16.7	10.7	3.6	0.0	0.0	0.0	0.0	0.0
65°	5287.2	1107.1	53.5	11.9	7.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3760.8	741.2	35.6	7.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1716.5	310.1	22.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	367.0	96.3	15.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	74.9	70.1	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.7	110.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.2	79.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)