

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: P190914

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190914
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-06-LED-E1-AFL-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA 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: 19642.7 lumens
Efficiency: N/A
Efficacy: 101.8 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): 193
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

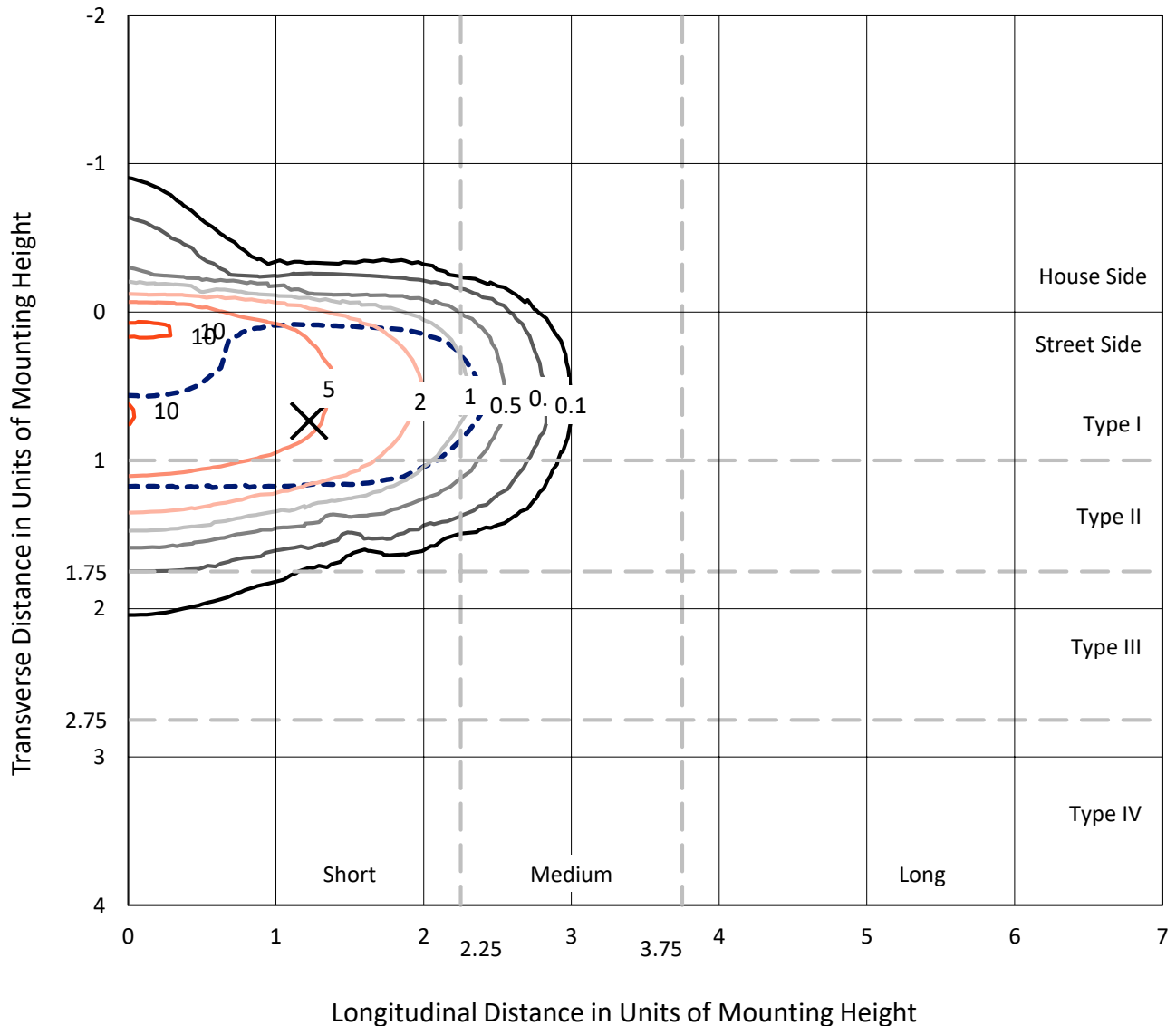


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Iso-Footcandle Lines of Horizontal Illumination

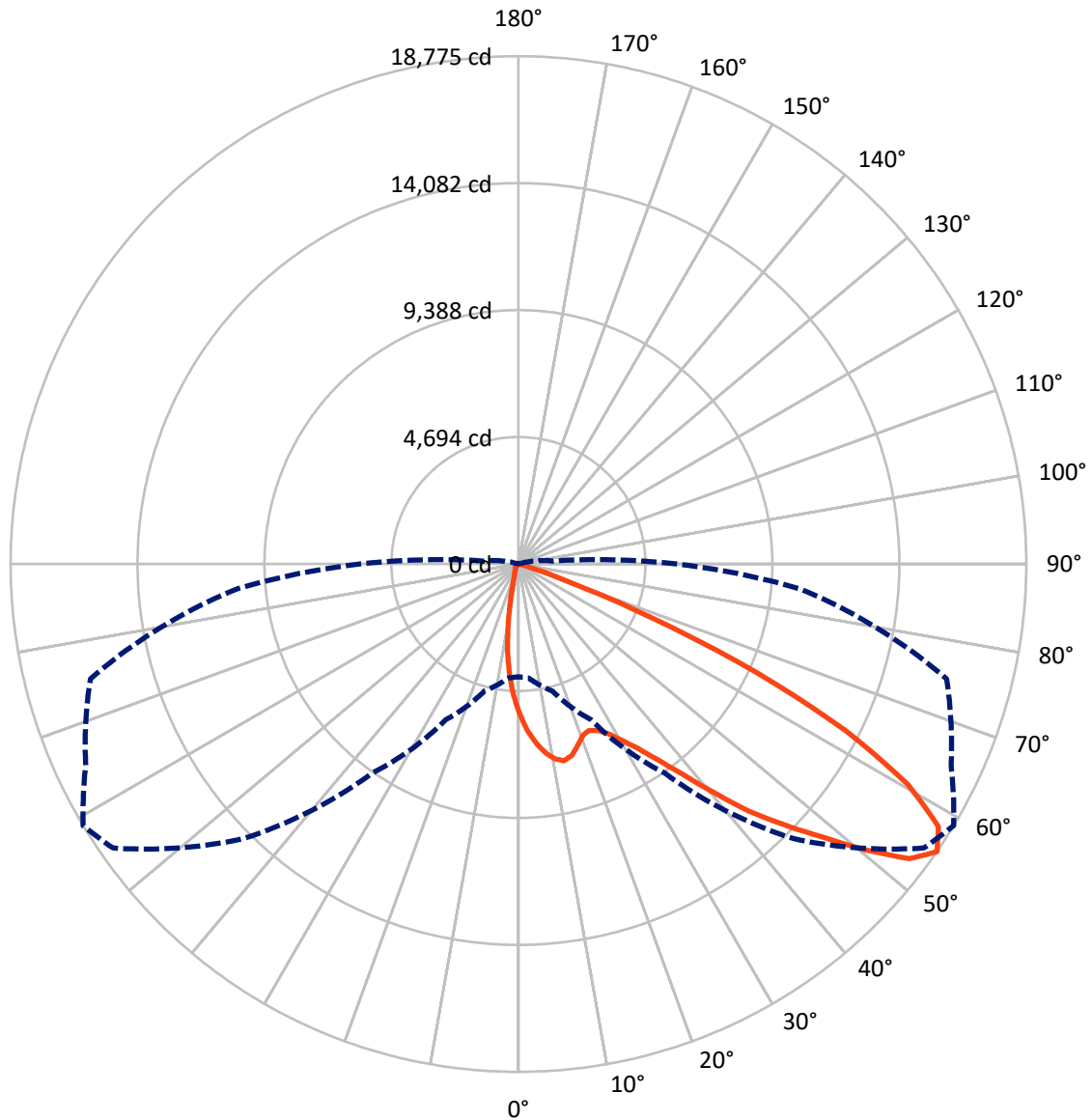
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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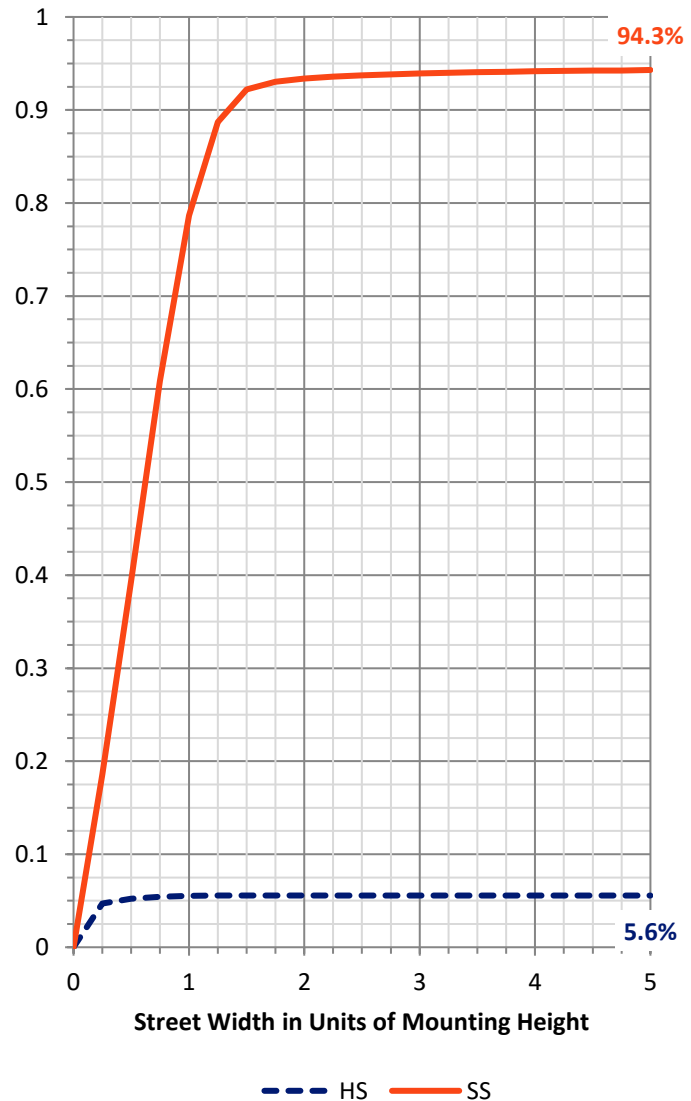
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1097.2	0.0	1097.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	18545.6	0.0	18545.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	19642.7	0.0	19642.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.1	2.4
10°-20°	1108.9	5.6
20°-30°	1886.9	9.6
30°-40°	3245.1	16.5
40°-50°	5010.0	25.5
50°-60°	5036.7	25.6
60°-70°	2582.8	13.1
70°-80°	279.9	1.4
80°-90°	29.3	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°	19642.7	100.0
0°-180°	19642.7	100.0

Coefficient of Utilization



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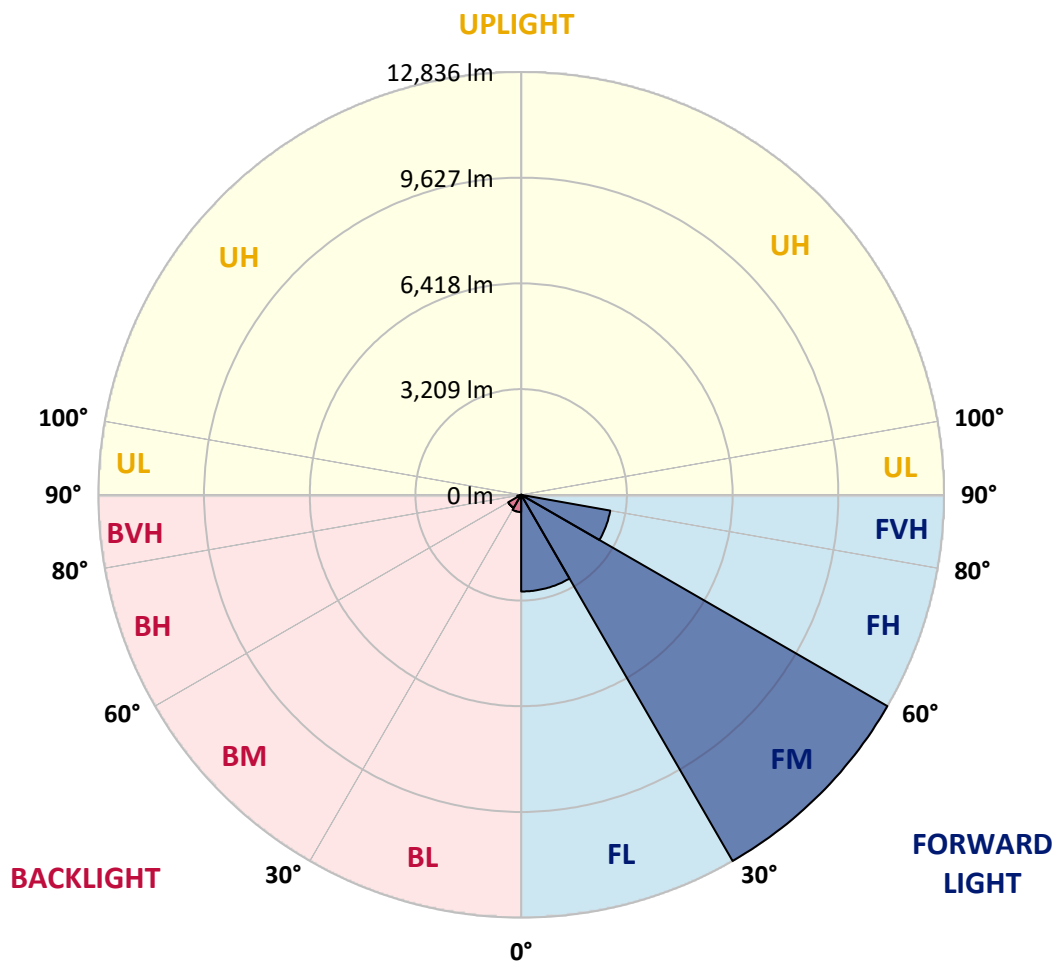
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2935.3	14.9			
FM	(30°-60°)	12836.4	65.3			
FH	(60°-80°)	2745.2	14.0			G2/5000
FVH	(80°-90°)	28.7	0.1			G1/100
BL	(0°-30°)	523.7	2.7	B2/1000		
BM	(30°-60°)	455.3	2.3	B1/1000		
BH	(60°-80°)	117.5	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°	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4
2.5°	6542.5	6472.9	6452.1	6438.1	6374.4	6294.4	6185.5	6134.4	6030.1	5862.0	5655.7
5°	7141.8	7129.0	7082.7	7057.1	6988.8	6875.2	6701.2	6617.9	6452.1	6169.2	5799.4
7.5°	6879.9	6959.7	7023.6	7130.2	7264.7	7260.0	7114.0	7027.1	6841.6	6468.3	5959.4
10°	5867.9	5932.7	6037.0	6279.4	6773.2	7209.0	7380.6	7318.0	7169.7	6743.0	6113.6
12.5°	5669.6	5662.6	5681.2	5752.0	6010.4	6631.8	7335.4	7461.7	7431.6	6994.5	6259.6
15°	5775.1	5767.0	5764.6	5789.0	5851.6	6113.6	6995.8	7358.6	7591.5	7227.6	6383.7
17.5°	6070.7	6035.9	6017.4	5997.7	5979.1	6044.0	6587.7	7069.9	7615.9	7431.6	6486.8
20°	6577.3	6519.3	6450.9	6339.6	6235.3	6202.9	6416.2	6773.2	7528.9	7586.9	6554.0
22.5°	7213.6	7139.5	7021.2	6818.4	6606.2	6483.4	6500.8	6679.3	7399.1	7756.1	6585.3
25°	7928.9	7833.9	7676.2	7394.5	7082.7	6864.7	6751.2	6813.8	7340.0	7954.4	6621.4
27.5°	8695.1	8589.6	8383.3	7999.6	7646.0	7351.6	7119.7	7111.7	7440.8	8214.1	6679.3
30°	9454.4	9438.2	9169.2	8763.5	8295.2	7937.0	7603.2	7560.2	7722.6	8573.4	6794.0
32.5°	10467.5	10345.8	10016.6	9599.3	9059.0	8629.0	8233.7	8134.1	8155.0	8991.8	6971.4
35°	11744.9	11611.6	11147.9	10571.8	9967.9	9460.1	9023.1	8887.5	8836.6	9676.9	7270.4
37.5°	12570.3	12568.0	12277.0	11690.5	11042.4	10482.6	10007.3	9848.5	9745.3	10504.6	7734.1
40°	12592.3	12646.8	12685.0	12679.3	12217.9	11702.0	11280.1	11084.2	10844.2	11610.5	8333.5
42.5°	11916.5	12056.8	12394.1	12966.7	13240.3	13035.2	12679.3	12486.9	12129.8	12794.0	9063.8
45°	11003.1	11100.4	11690.5	12745.4	13794.4	14356.6	14085.3	13741.1	13270.4	14028.5	9718.6
47.5°	10593.9	10611.3	10992.6	12150.6	13836.1	15439.3	15603.9	15044.0	14306.8	15023.2	10231.0
50°	9370.9	9402.2	9928.5	11120.1	13347.0	15950.5	17129.4	16598.5	15436.9	15789.3	10417.6
52.5°	7063.0	7107.1	7774.7	9426.6	12002.3	15732.6	18221.3	18092.7	16675.0	16163.7	10428.1
55°	4167.3	4225.3	4862.8	6345.5	9440.5	14346.2	18302.5	18775.4	17652.1	16385.2	10411.9
57.5°	1946.3	1986.9	2352.0	3268.9	5871.3	11338.1	17080.7	18307.1	18191.2	16502.2	10526.7
60°	1034.0	1045.6	1133.7	1415.4	2653.4	7189.3	14696.2	16531.3	17699.7	16664.6	10666.9
62.5°	790.5	794.0	789.4	823.1	1115.1	3191.3	11108.5	13590.4	15721.0	16542.9	10511.5
65°	685.1	690.9	658.4	650.3	715.2	1138.3	6599.3	9687.3	12353.6	14900.3	9453.2
67.5°	614.4	616.7	577.3	543.7	555.3	615.5	2603.5	5303.3	8177.0	10921.9	6852.0
70°	565.7	563.3	520.5	467.2	452.0	420.7	827.7	1944.0	3907.7	5538.7	3186.6
72.5°	500.7	502.0	481.1	411.5	375.6	294.4	383.7	566.8	1166.2	1509.3	746.5
75°	444.0	438.1	412.7	368.7	309.5	193.5	190.1	252.7	359.4	357.0	161.1
77.5°	321.1	315.3	323.5	302.6	237.6	125.2	95.0	121.7	146.1	141.4	45.2
80°	235.3	231.8	208.7	251.5	209.8	85.8	59.1	65.0	75.4	63.7	13.9
82.5°	161.1	160.0	147.2	139.1	119.4	52.2	37.1	40.6	48.7	35.9	7.0
85°	25.5	28.9	106.7	84.6	70.7	23.2	25.5	27.8	32.4	19.7	2.4
87.5°	0.0	0.0	49.8	44.1	13.9	9.3	15.0	16.3	16.3	10.4	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°	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4	5529.4
2.5°	5550.2	5434.3	5219.8	4998.4	4793.2	4548.7	4380.6	4254.2	4108.2	4068.8	4154.5
5°	5588.5	5369.4	4908.0	4406.1	3934.3	3411.5	3011.6	2695.2	2408.8	2311.5	2399.5
7.5°	5648.7	5323.0	4570.6	3744.2	2923.5	2107.4	1548.6	1181.2	947.0	877.5	914.6
10°	5709.0	5255.8	4180.1	2960.6	1838.4	1025.9	667.7	533.3	483.3	472.9	478.7
12.5°	5758.9	5165.4	3703.6	2105.1	983.0	549.4	437.0	415.0	408.1	408.1	410.3
15°	5789.0	5028.6	3139.1	1338.8	565.7	415.0	381.4	374.4	374.4	375.6	377.9
17.5°	5785.5	4854.7	2521.3	810.3	423.1	367.4	347.8	342.0	340.8	343.1	344.3
20°	5742.6	4627.5	1901.1	534.4	368.7	335.0	315.3	304.8	303.7	306.1	308.3
22.5°	5661.5	4346.9	1359.7	411.5	332.7	303.7	279.4	270.1	270.1	272.4	274.8
25°	5563.0	4003.8	929.7	348.9	300.2	270.1	246.9	238.8	241.1	246.9	248.1
27.5°	5440.1	3617.9	631.8	299.1	260.9	236.5	219.1	213.3	219.1	227.2	229.6
30°	5334.6	3215.6	450.9	258.5	221.4	204.0	193.5	193.5	201.7	216.8	220.2
32.5°	5253.5	2826.1	347.8	228.3	192.4	177.4	171.5	177.4	190.1	205.2	208.7
35°	5243.0	2505.0	294.4	204.0	171.5	156.5	154.2	164.6	177.4	188.9	191.3
37.5°	5323.0	2208.2	265.5	184.3	153.0	139.1	136.8	149.6	162.2	176.2	179.6
40°	5474.8	1975.2	244.6	165.7	137.9	122.9	118.3	127.6	144.8	163.5	168.1
42.5°	5672.0	1782.8	221.4	147.2	122.9	102.0	96.3	106.7	125.2	144.8	150.7
45°	5859.8	1617.1	195.9	126.3	103.2	78.9	76.5	90.4	99.7	119.4	124.1
47.5°	5962.9	1471.0	173.9	103.2	80.0	63.7	63.7	67.2	76.5	99.7	104.3
50°	5928.1	1354.0	150.7	76.5	55.6	48.7	48.7	47.6	61.5	80.0	83.5
52.5°	5858.5	1286.7	129.8	59.1	38.3	34.8	31.3	34.8	42.9	51.0	52.2
55°	5848.1	1275.1	108.9	47.6	26.7	23.2	17.4	17.4	17.4	16.3	13.9
57.5°	5929.2	1293.6	91.6	38.3	19.7	15.0	9.3	0.0	0.0	0.0	0.0
60°	6012.7	1313.4	78.9	26.7	13.9	8.1	1.1	0.0	0.0	0.0	0.0
62.5°	5873.6	1269.3	66.1	16.3	10.4	3.5	0.0	0.0	0.0	0.0	0.0
65°	5159.6	1080.3	52.2	11.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3670.0	723.3	34.8	7.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1675.1	302.6	22.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	358.2	93.9	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	73.0	68.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.2	107.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.9	77.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	11.6	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)