

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: P193482

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-8030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193482
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-04-LED-E1-AFL-8030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1200mA 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: 17595 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 258
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

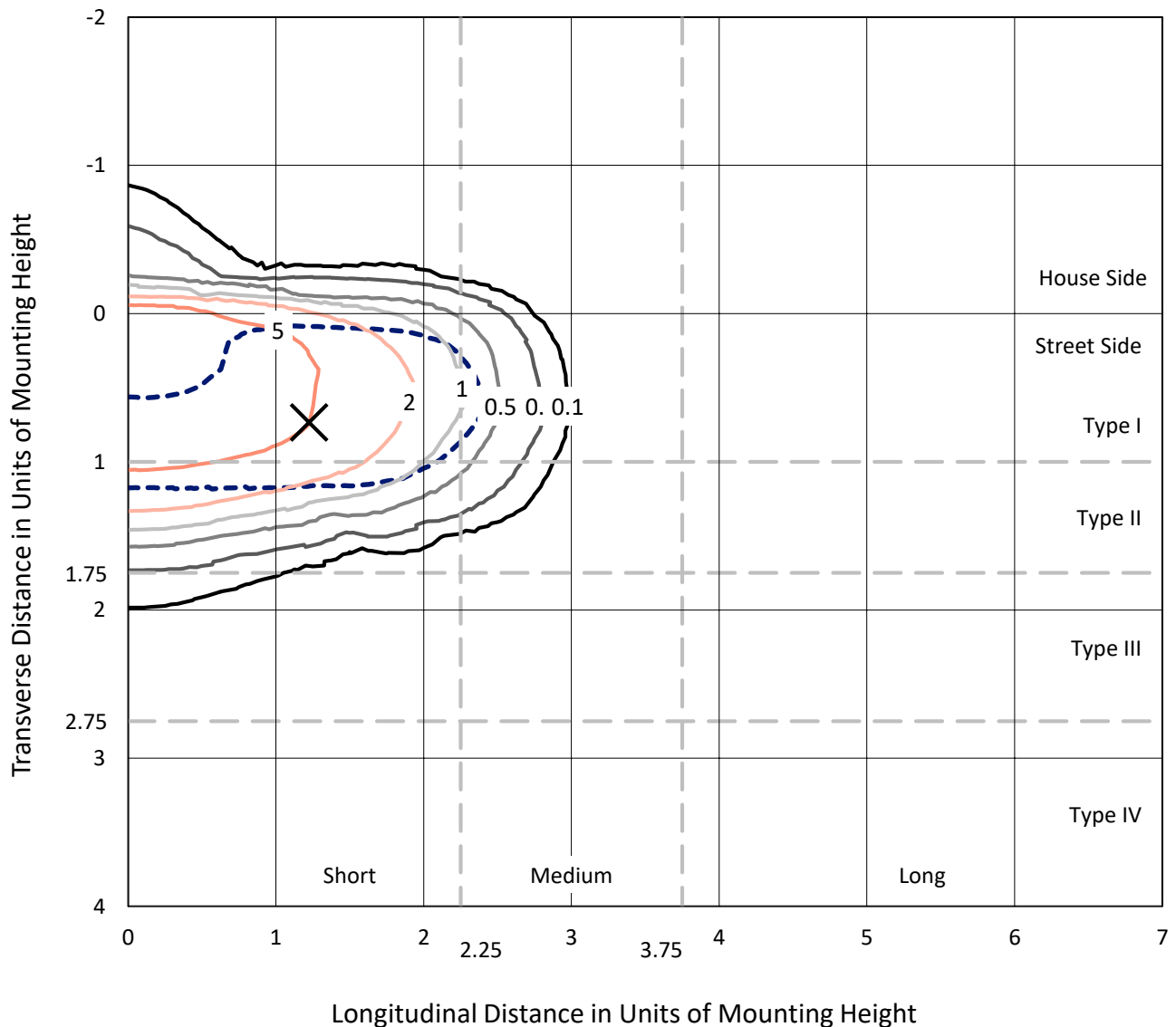


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

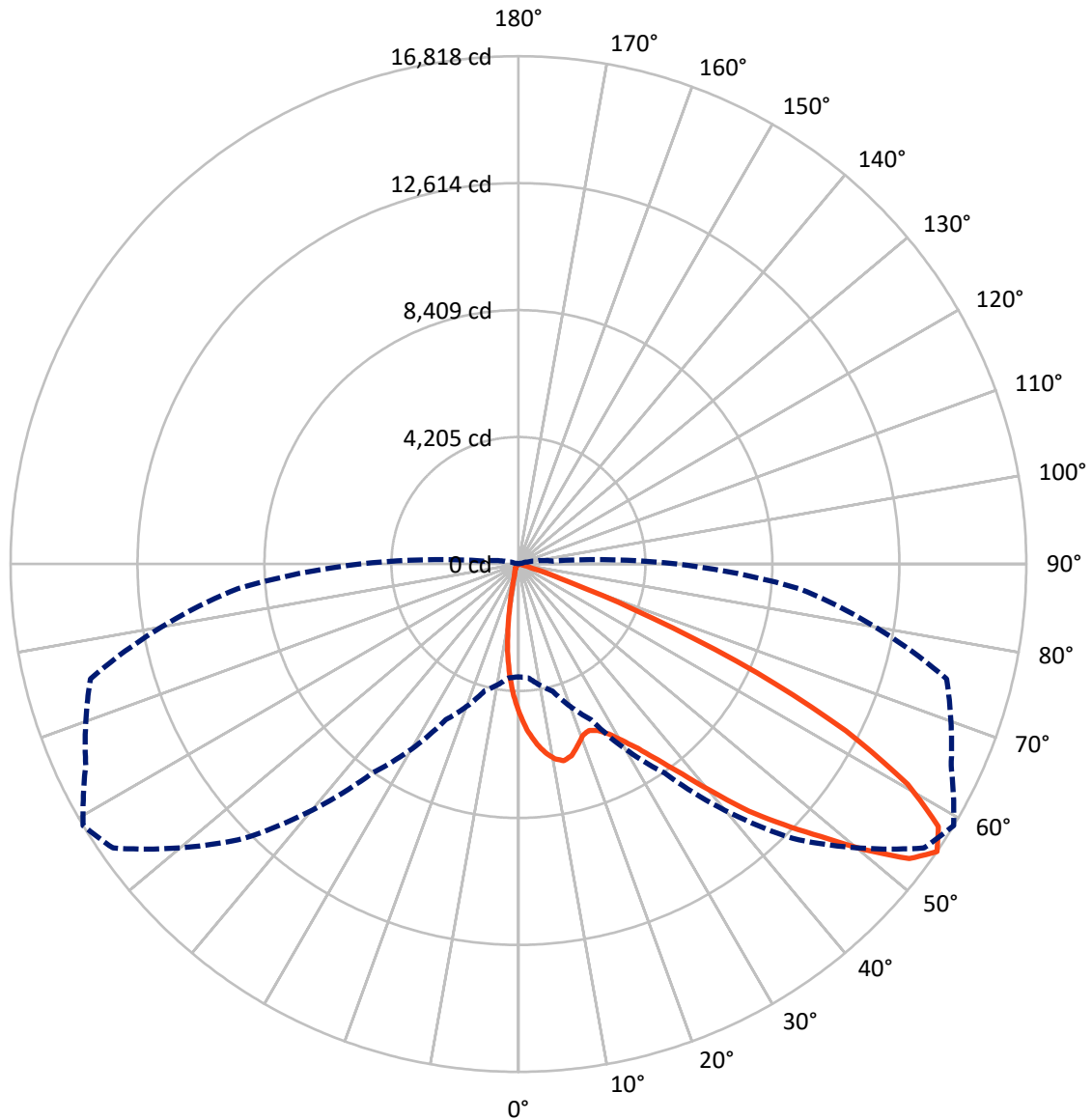


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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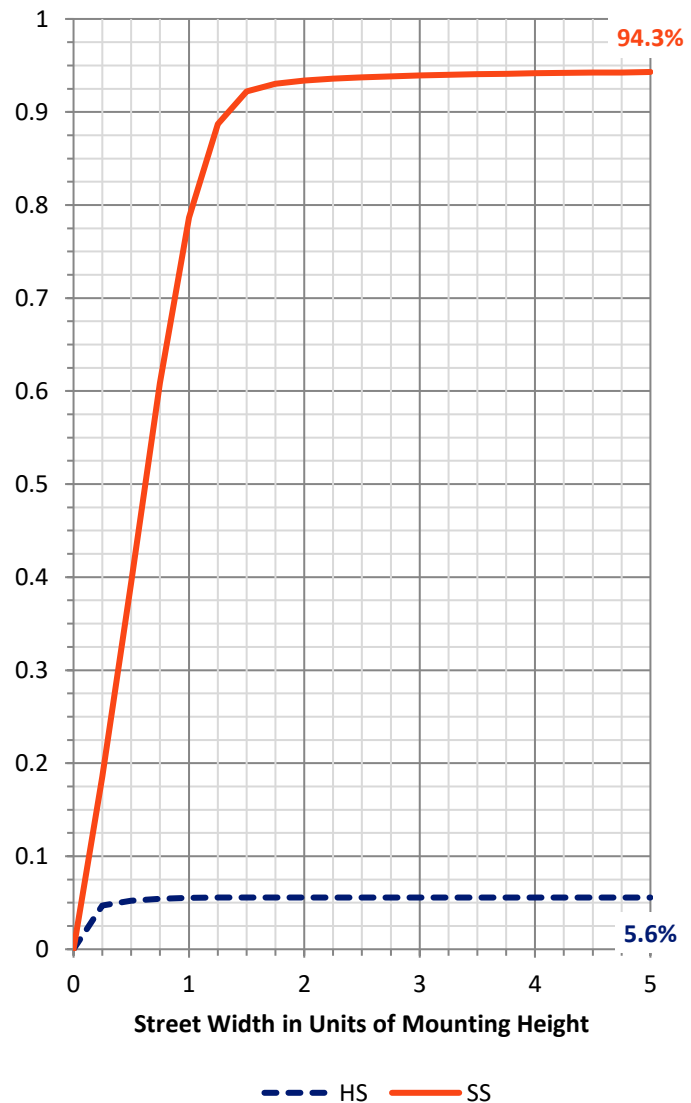
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	982.8	0.0	982.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	16612.2	0.0	16612.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	17595.0	0.0	17595.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.9	2.4
10°-20°	993.3	5.6
20°-30°	1690.2	9.6
30°-40°	2906.8	16.5
40°-50°	4487.7	25.5
50°-60°	4511.6	25.6
60°-70°	2313.6	13.1
70°-80°	250.7	1.4
80°-90°	26.2	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°	17595.0	100.0
0°-180°	17595.0	100.0



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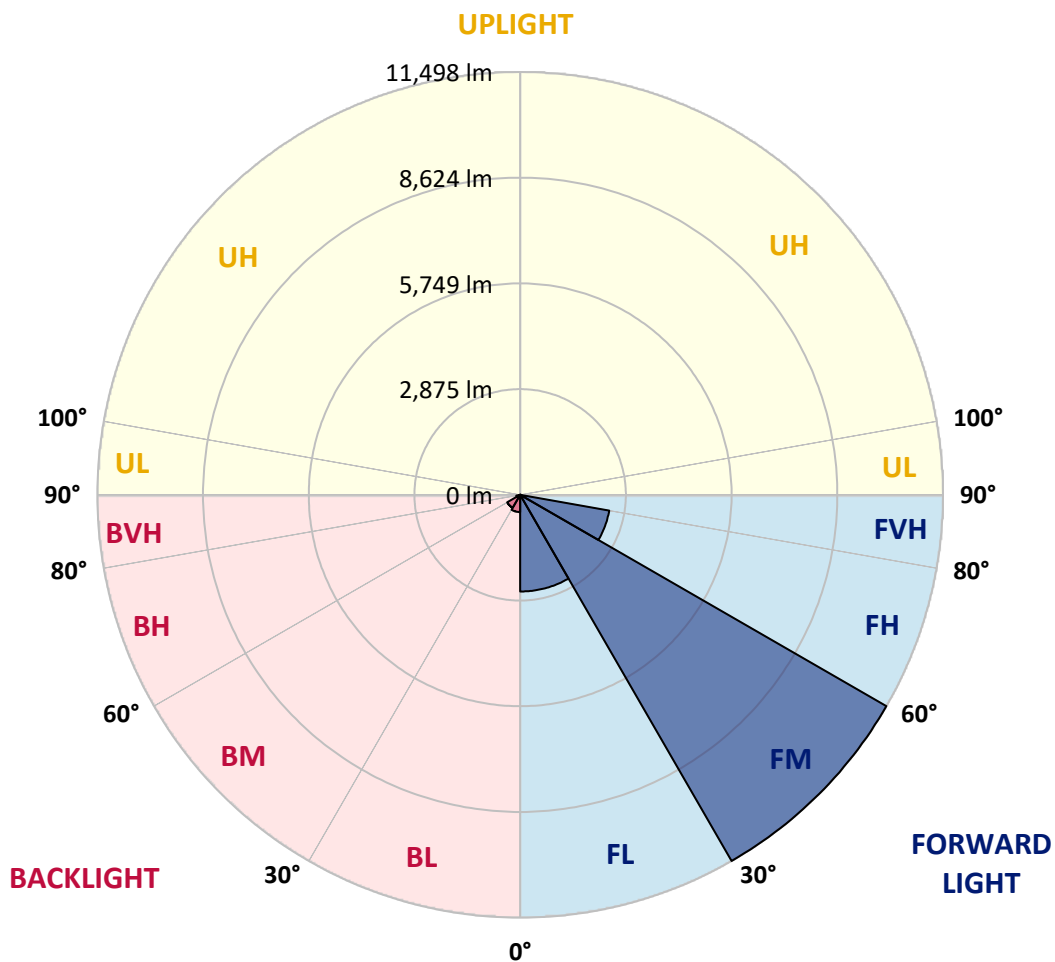
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2629.3	14.9			
FM	(30°-60°)	11498.3	65.3			
FH	(60°-80°)	2459.0	14.0			G2/5000
FVH	(80°-90°)	25.7	0.1			G1/100
BL	(0°-30°)	469.1	2.7	B1/500		
BM	(30°-60°)	407.9	2.3	B1/1000		
BH	(60°-80°)	105.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9
2.5°	5860.4	5798.1	5779.5	5767.0	5709.9	5638.2	5540.6	5494.9	5401.5	5250.9	5066.1
5°	6397.3	6385.9	6344.3	6321.5	6260.2	6158.5	6002.7	5927.9	5779.5	5526.1	5194.9
7.5°	6162.6	6234.3	6291.4	6386.9	6507.3	6503.2	6372.4	6294.5	6128.3	5794.0	5338.2
10°	5256.1	5314.3	5407.7	5624.7	6067.1	6457.5	6611.2	6555.1	6422.2	6040.1	5476.3
12.5°	5078.6	5072.3	5089.0	5152.3	5383.8	5940.4	6570.7	6683.9	6656.9	6265.4	5607.1
15°	5173.1	5165.8	5163.7	5185.5	5241.6	5476.3	6266.4	6591.4	6800.2	6474.1	5718.2
17.5°	5437.8	5406.7	5390.1	5372.4	5355.8	5414.0	5900.9	6332.9	6822.0	6656.9	5810.6
20°	5891.6	5839.7	5778.4	5678.7	5585.3	5556.2	5747.3	6067.1	6744.1	6796.0	5870.8
22.5°	6461.7	6395.2	6289.3	6107.6	5917.6	5807.5	5823.1	5983.0	6627.8	6947.6	5898.9
25°	7102.3	7017.2	6876.0	6623.6	6344.3	6149.1	6047.3	6103.4	6574.8	7125.2	5931.1
27.5°	7788.7	7694.2	7509.3	7165.7	6849.0	6585.2	6377.5	6370.3	6665.2	7357.7	5983.0
30°	8468.8	8454.2	8213.3	7849.9	7430.4	7109.6	6810.5	6772.1	6917.5	7679.6	6085.8
32.5°	9376.3	9267.3	8972.4	8598.6	8114.7	7729.5	7375.4	7286.1	7304.8	8054.5	6244.6
35°	10520.6	10401.2	9985.8	9469.8	8928.8	8474.0	8082.5	7961.0	7915.3	8668.1	6512.5
37.5°	11259.9	11257.8	10997.2	10471.8	9891.3	9389.8	8964.1	8821.8	8729.4	9409.5	6927.9
40°	11279.6	11328.4	11362.7	11357.5	10944.2	10482.1	10104.2	9928.7	9713.8	10400.1	7464.7
42.5°	10674.2	10799.9	11102.0	11615.0	11860.0	11676.2	11357.5	11185.1	10865.3	11460.3	8118.9
45°	9856.0	9943.2	10471.8	11416.7	12356.4	12860.0	12617.0	12308.6	11887.0	12566.1	8705.5
47.5°	9489.5	9505.1	9846.7	10884.0	12393.7	13829.8	13977.2	13475.7	12815.3	13457.0	9164.5
50°	8394.0	8422.1	8893.5	9960.9	11955.6	14287.7	15343.7	14868.1	13827.7	14143.4	9331.7
52.5°	6326.7	6366.1	6964.2	8443.9	10751.1	14092.5	16321.8	16206.6	14936.7	14478.8	9341.0
55°	3732.9	3784.8	4355.9	5683.9	8456.3	12850.6	16394.5	16818.2	15812.0	14677.1	9326.5
57.5°	1743.4	1779.7	2106.8	2928.1	5259.2	10156.1	15300.1	16398.7	16294.8	14781.9	9429.3
60°	926.2	936.6	1015.5	1267.8	2376.8	6439.8	13164.2	14807.9	15854.6	14927.3	9554.9
62.5°	708.2	711.3	707.1	737.2	998.9	2858.6	9950.5	12173.6	14082.1	14818.3	9415.8
65°	613.7	618.9	589.8	582.5	640.7	1019.7	5911.3	8677.5	11065.7	13346.9	8467.7
67.5°	550.3	552.4	517.1	487.0	497.4	551.4	2332.1	4750.5	7324.5	9783.3	6137.7
70°	506.7	504.6	466.2	418.5	405.0	376.9	741.4	1741.3	3500.3	4961.2	2854.4
72.5°	448.6	449.6	430.9	368.6	336.4	263.7	343.7	507.8	1044.6	1351.9	668.7
75°	397.7	392.5	369.7	330.2	277.2	173.4	170.3	226.4	321.9	319.8	144.3
77.5°	287.6	282.4	289.7	271.0	212.9	112.1	85.1	109.0	130.8	126.7	40.5
80°	210.8	207.7	186.9	225.3	187.9	76.8	53.0	58.1	67.5	57.1	12.5
82.5°	144.3	143.3	131.9	124.6	107.0	46.7	33.2	36.3	43.6	32.2	6.2
85°	22.8	26.0	95.5	75.8	63.3	20.8	22.8	24.9	29.1	17.7	2.1
87.5°	0.0	0.0	44.6	39.5	12.5	8.3	13.5	14.5	14.5	9.3	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°	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9	4952.9
2.5°	4971.6	4867.8	4675.7	4477.4	4293.6	4074.5	3923.9	3810.7	3679.9	3644.6	3721.4
5°	5005.9	4809.6	4396.4	3946.8	3524.2	3055.9	2697.6	2414.2	2157.7	2070.5	2149.4
7.5°	5059.9	4768.1	4094.2	3353.9	2618.7	1887.7	1387.2	1058.1	848.3	786.0	819.3
10°	5113.9	4707.9	3744.3	2651.9	1646.8	918.9	598.1	477.6	433.0	423.6	428.8
12.5°	5158.5	4626.9	3317.5	1885.6	880.5	492.2	391.5	371.7	365.5	365.5	367.6
15°	5185.5	4504.4	2811.9	1199.3	506.7	371.7	341.6	335.4	335.4	336.4	338.5
17.5°	5182.4	4348.6	2258.4	725.8	379.0	329.2	311.5	306.3	305.3	307.4	308.4
20°	5144.0	4145.1	1702.9	478.7	330.2	300.1	282.4	273.1	272.0	274.1	276.2
22.5°	5071.3	3893.8	1218.0	368.6	298.0	272.0	250.2	241.9	241.9	244.0	246.1
25°	4983.0	3586.5	832.8	312.5	268.9	241.9	221.2	213.9	216.0	221.2	222.2
27.5°	4873.0	3240.7	565.9	267.9	233.6	211.8	196.2	191.1	196.2	203.5	205.6
30°	4778.5	2880.4	403.9	231.6	198.3	182.7	173.4	173.4	180.7	194.2	197.3
32.5°	4705.8	2531.5	311.5	204.6	172.4	158.9	153.7	158.9	170.3	183.8	186.9
35°	4696.5	2243.9	263.7	182.7	153.7	140.2	138.1	147.4	158.9	169.3	171.3
37.5°	4768.1	1978.1	237.8	165.1	137.1	124.6	122.5	133.9	145.4	157.8	160.9
40°	4904.1	1769.3	219.1	148.5	123.6	110.1	105.9	114.2	129.8	146.4	150.6
42.5°	5080.6	1597.0	198.3	131.9	110.1	91.4	86.2	95.5	112.1	129.8	135.0
45°	5248.9	1448.5	175.5	113.2	92.4	70.6	68.5	81.0	89.3	107.0	111.1
47.5°	5341.3	1317.7	155.8	92.4	71.6	57.1	57.1	60.2	68.5	89.3	93.5
50°	5310.1	1212.8	135.0	68.5	49.8	43.6	43.6	42.6	55.0	71.6	74.8
52.5°	5247.8	1152.6	116.3	53.0	34.3	31.2	28.0	31.2	38.4	45.7	46.7
55°	5238.5	1142.2	97.6	42.6	23.9	20.8	15.6	15.6	15.6	14.5	12.5
57.5°	5311.2	1158.8	82.0	34.3	17.7	13.5	8.3	0.0	0.0	0.0	0.0
60°	5385.9	1176.5	70.6	23.9	12.5	7.3	1.0	0.0	0.0	0.0	0.0
62.5°	5261.3	1137.0	59.2	14.5	9.3	3.1	0.0	0.0	0.0	0.0	0.0
65°	4621.7	967.7	46.7	10.4	6.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3287.4	647.9	31.2	6.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1500.4	271.0	19.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	320.9	84.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	65.4	61.3	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	20.8	96.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	12.5	69.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.1	10.4	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)