

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: P193454

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193454
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-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 15669 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - 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

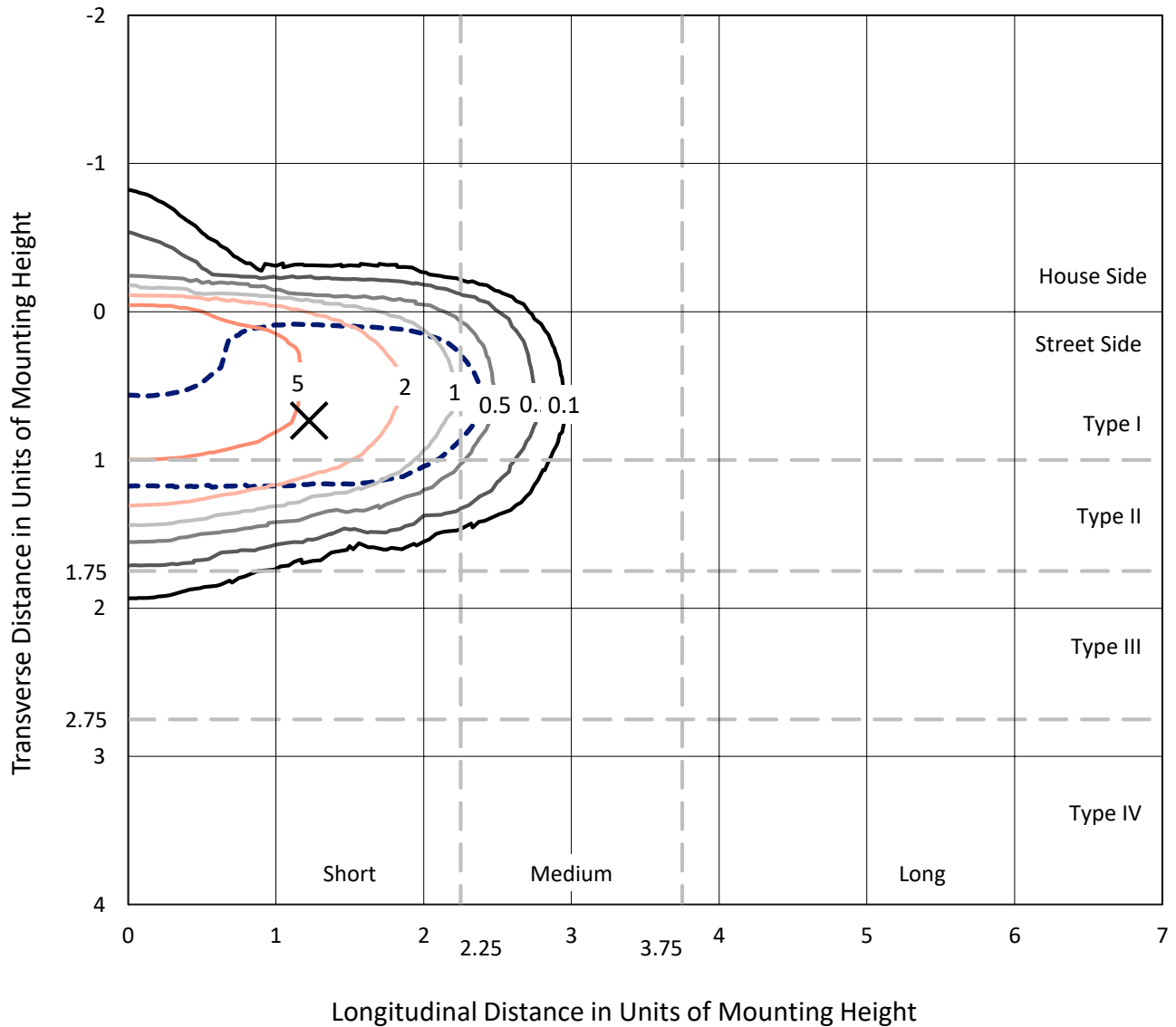


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

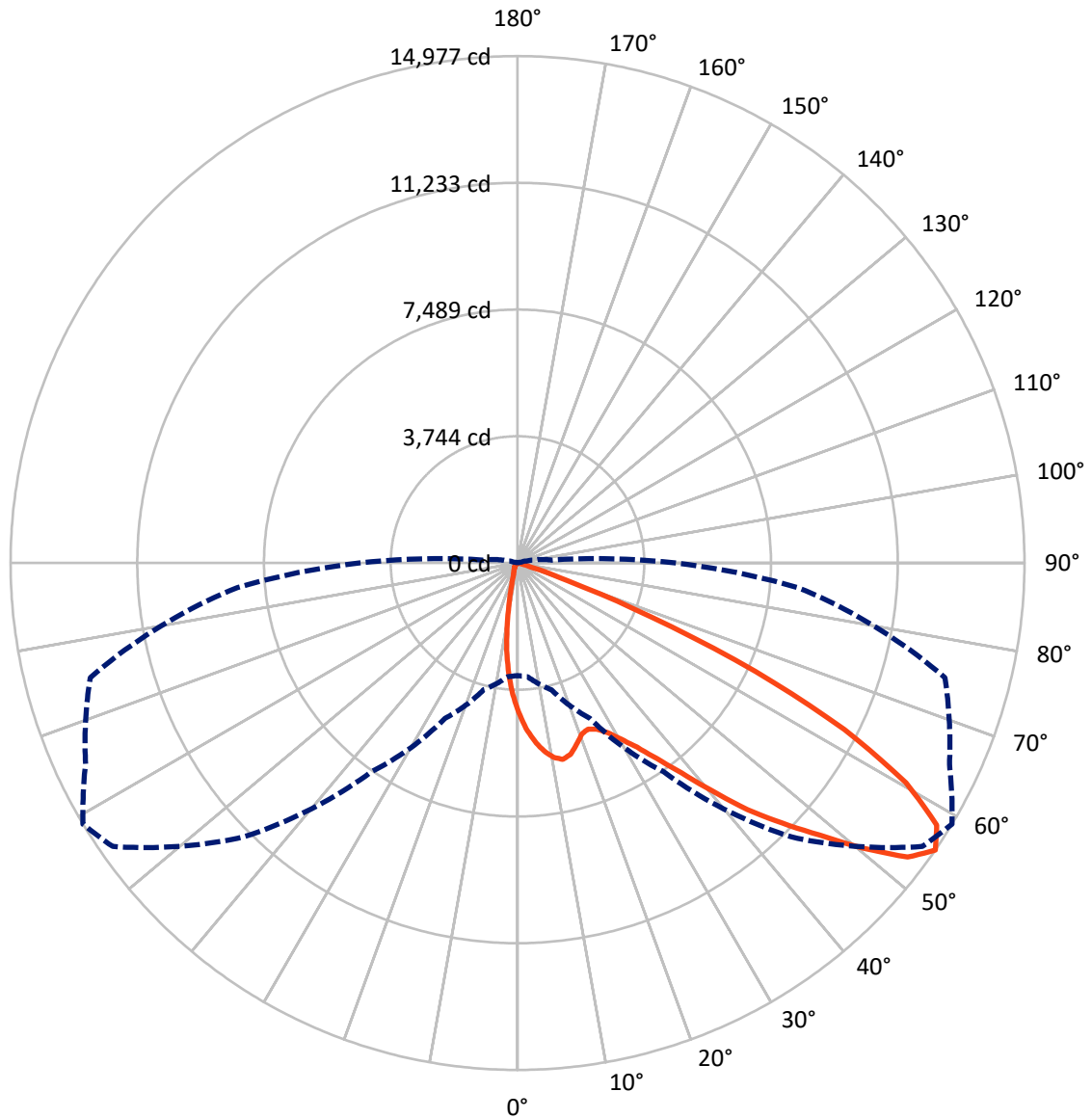


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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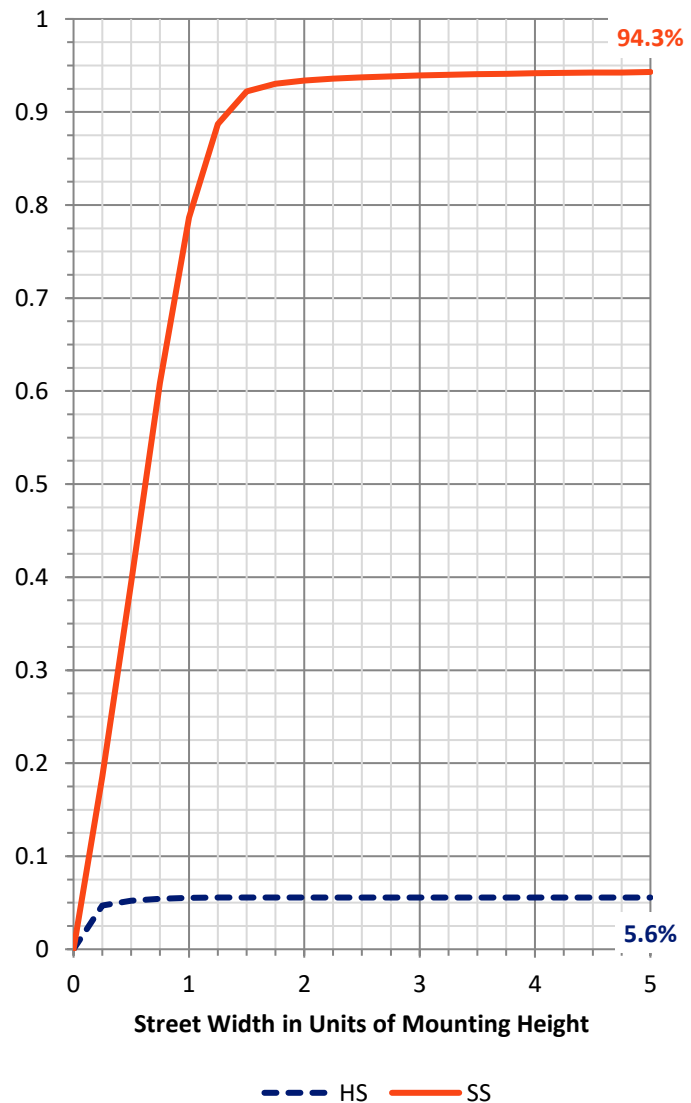
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	875.2	0.0	875.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	14793.8	0.0	14793.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	15669.0	0.0	15669.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.4	2.4
10°-20°	884.6	5.6
20°-30°	1505.2	9.6
30°-40°	2588.6	16.5
40°-50°	3996.5	25.5
50°-60°	4017.8	25.6
60°-70°	2060.3	13.1
70°-80°	223.3	1.4
80°-90°	23.3	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°	15669.0	100.0
0°-180°	15669.0	100.0



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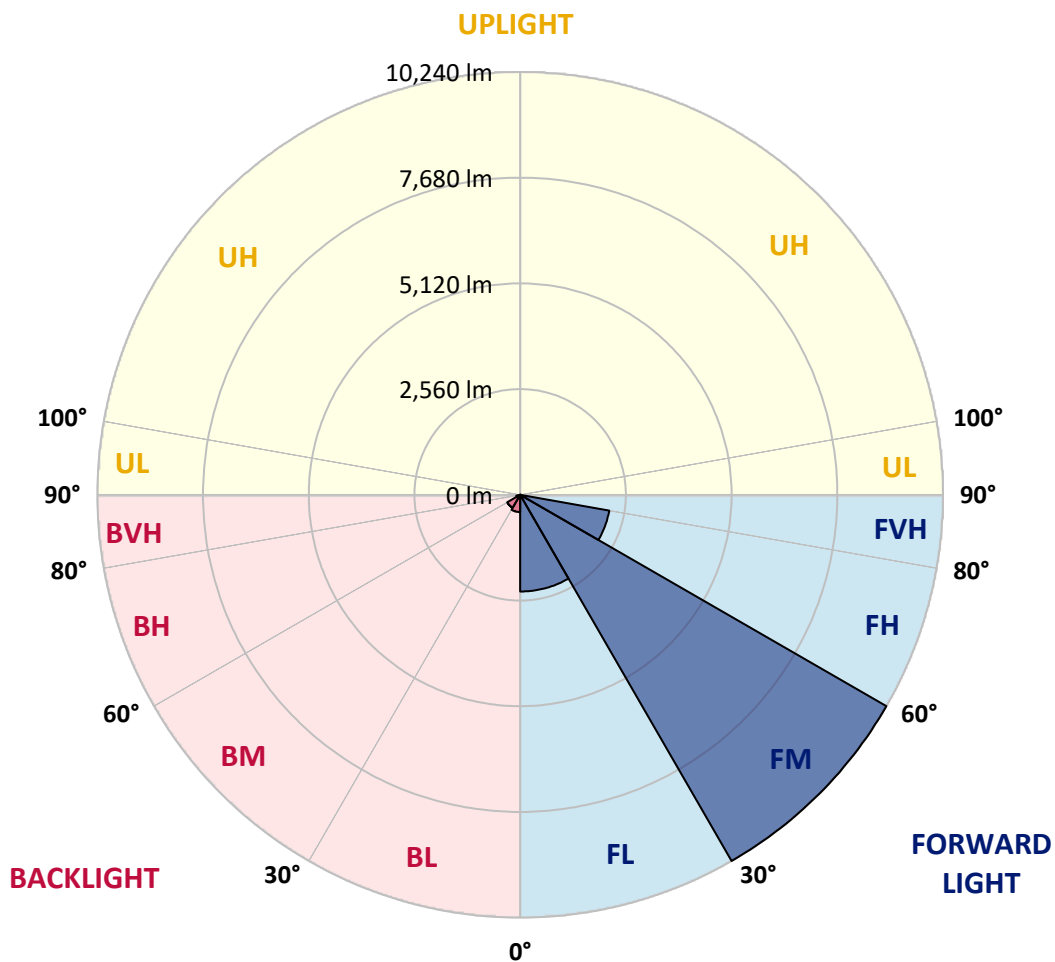
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2341.5	14.9			
FM (30°-60°)	10239.6	65.3			
FH (60°-80°)	2189.8	14.0			G2/5000
FVH (80°-90°)	22.9	0.1			G1/100
BL (0°-30°)	417.7	2.7	B1/500		
BM (30°-60°)	363.2	2.3	B1/1000		
BH (60°-80°)	93.8	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°	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8
2.5°	5218.9	5163.5	5146.8	5135.7	5084.9	5021.1	4934.1	4893.5	4810.2	4676.2	4511.6
5°	5697.0	5686.8	5649.9	5629.5	5575.0	5484.3	5345.6	5279.0	5146.8	4921.2	4626.2
7.5°	5488.0	5551.8	5602.7	5687.8	5795.0	5791.3	5674.8	5605.5	5457.5	5159.8	4753.8
10°	4680.8	4732.6	4815.8	5009.0	5403.0	5750.6	5887.5	5837.6	5719.2	5378.9	4876.8
12.5°	4522.7	4517.1	4531.9	4588.3	4794.5	5290.1	5851.4	5952.2	5928.2	5579.6	4993.3
15°	4606.8	4600.3	4598.5	4617.9	4667.8	4876.8	5580.5	5869.9	6055.8	5765.4	5092.3
17.5°	4842.6	4814.9	4800.1	4784.3	4769.5	4821.3	5255.0	5639.7	6075.2	5928.2	5174.6
20°	5246.7	5200.5	5145.9	5057.1	4973.9	4948.0	5118.2	5403.0	6005.9	6052.1	5228.2
22.5°	5754.3	5695.2	5600.8	5439.0	5269.8	5171.8	5185.7	5328.1	5902.3	6187.1	5253.2
25°	6324.9	6249.0	6123.3	5898.6	5649.9	5476.0	5385.4	5435.3	5855.1	6345.2	5281.8
27.5°	6936.1	6851.9	6687.4	6381.3	6099.2	5864.4	5679.4	5673.0	5935.6	6552.3	5328.1
30°	7541.8	7528.8	7314.3	6990.6	6617.1	6331.3	6065.0	6030.8	6160.3	6839.0	5419.6
32.5°	8349.9	8252.9	7990.2	7657.4	7226.4	6883.4	6568.1	6488.5	6505.2	7172.8	5561.1
35°	9368.9	9262.6	8892.7	8433.2	7951.4	7546.4	7197.8	7089.6	7048.9	7719.3	5799.6
37.5°	10027.3	10025.5	9793.4	9325.5	8808.6	8362.0	7982.8	7856.2	7773.9	8379.5	6169.5
40°	10044.9	10088.4	10118.9	10114.2	9746.2	9334.7	8998.1	8841.9	8650.5	9261.7	6647.6
42.5°	9505.8	9617.7	9886.8	10343.6	10561.8	10398.1	10114.2	9960.8	9675.9	10205.8	7230.1
45°	8777.1	8854.8	9325.5	10167.0	11003.8	11452.3	11235.9	10961.3	10585.8	11190.6	7752.6
47.5°	8450.7	8464.6	8768.8	9692.6	11037.1	12315.9	12447.2	12000.6	11412.5	11984.0	8161.3
50°	7475.2	7500.2	7920.0	8870.5	10646.9	12723.7	13664.1	13240.6	12314.1	12595.2	8310.2
52.5°	5634.1	5669.3	6201.9	7519.6	9574.2	12549.9	14535.2	14432.5	13301.7	12893.9	8318.5
55°	3324.3	3370.5	3879.1	5061.7	7530.7	11444.0	14599.9	14977.2	14081.2	13070.5	8305.6
57.5°	1552.6	1584.9	1876.2	2607.6	4683.6	9044.4	13625.3	14603.6	14511.1	13163.9	8397.1
60°	824.8	834.1	904.3	1129.0	2116.6	5734.9	11723.2	13187.0	14119.1	13293.3	8509.0
62.5°	630.6	633.4	629.7	656.5	889.6	2545.7	8861.3	10841.1	12540.6	13196.2	8385.1
65°	546.5	551.1	525.2	518.8	570.5	908.0	5264.3	7727.6	9854.4	11886.0	7540.8
67.5°	490.1	491.9	460.5	433.7	442.9	491.0	2076.9	4230.5	6522.8	8712.4	5465.8
70°	451.2	449.4	415.2	372.6	360.6	335.7	660.2	1550.7	3117.1	4418.2	2542.0
72.5°	399.5	400.4	383.7	328.3	299.6	234.9	306.1	452.2	930.2	1203.9	595.5
75°	354.2	349.5	329.2	294.1	246.9	154.4	151.6	201.6	286.7	284.8	128.5
77.5°	256.1	251.5	258.0	241.3	189.6	99.9	75.8	97.1	116.5	112.8	36.1
80°	187.7	184.9	166.4	200.7	167.4	68.4	47.2	51.8	60.1	50.9	11.1
82.5°	128.5	127.6	117.4	111.0	95.2	41.6	29.6	32.4	38.8	28.7	5.5
85°	20.3	23.1	85.1	67.5	56.4	18.5	20.3	22.2	25.9	15.7	1.8
87.5°	0.0	0.0	39.8	35.1	11.1	7.4	12.0	12.9	12.9	8.3	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°	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8	4410.8
2.5°	4427.4	4334.9	4163.9	3987.3	3823.6	3628.5	3494.4	3393.6	3277.1	3245.7	3314.1
5°	4457.9	4283.2	3915.1	3514.7	3138.4	2721.4	2402.3	2149.9	1921.5	1843.8	1914.1
7.5°	4506.0	4246.2	3646.0	2986.7	2332.1	1681.1	1235.4	942.3	755.5	700.0	729.6
10°	4554.1	4192.5	3334.4	2361.7	1466.6	818.3	532.6	425.4	385.6	377.3	381.9
12.5°	4593.9	4120.4	2954.4	1679.2	784.1	438.3	348.6	331.0	325.5	325.5	327.3
15°	4617.9	4011.3	2504.1	1068.0	451.2	331.0	304.2	298.7	298.7	299.6	301.4
17.5°	4615.1	3872.6	2011.2	646.4	337.5	293.1	277.4	272.8	271.9	273.7	274.6
20°	4580.9	3691.4	1516.5	426.3	294.1	267.2	251.5	243.2	242.3	244.1	246.0
22.5°	4516.2	3467.6	1084.7	328.3	265.4	242.3	222.9	215.5	215.5	217.3	219.2
25°	4437.6	3193.9	741.6	278.3	239.5	215.5	197.0	190.5	192.3	197.0	197.9
27.5°	4339.6	2886.0	504.0	238.6	208.1	188.6	174.8	170.1	174.8	181.2	183.1
30°	4255.4	2565.1	359.7	206.2	176.6	162.7	154.4	154.4	160.9	172.9	175.7
32.5°	4190.7	2254.4	277.4	182.2	153.5	141.5	136.9	141.5	151.6	163.7	166.4
35°	4182.4	1998.3	234.9	162.7	136.9	124.8	123.0	131.3	141.5	150.7	152.6
37.5°	4246.2	1761.5	211.8	147.0	122.1	111.0	109.1	119.3	129.5	140.6	143.3
40°	4367.3	1575.7	195.1	132.2	110.0	98.0	94.3	101.7	115.6	130.4	134.1
42.5°	4524.5	1422.2	176.6	117.4	98.0	81.4	76.7	85.1	99.9	115.6	120.2
45°	4674.3	1289.9	156.3	100.8	82.3	62.9	61.0	72.1	79.5	95.2	98.9
47.5°	4756.6	1173.4	138.7	82.3	63.8	50.9	50.9	53.6	61.0	79.5	83.2
50°	4728.9	1080.0	120.2	61.0	44.4	38.8	38.8	37.9	49.0	63.8	66.6
52.5°	4673.4	1026.4	103.6	47.2	30.5	27.7	25.0	27.7	34.2	40.7	41.6
55°	4665.1	1017.2	86.9	37.9	21.3	18.5	13.9	13.9	13.9	12.9	11.1
57.5°	4729.8	1032.0	73.1	30.5	15.7	12.0	7.4	0.0	0.0	0.0	0.0
60°	4796.4	1047.7	62.9	21.3	11.1	6.5	0.9	0.0	0.0	0.0	0.0
62.5°	4685.4	1012.5	52.7	12.9	8.3	2.8	0.0	0.0	0.0	0.0	0.0
65°	4115.8	861.8	41.6	9.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2927.6	577.0	27.7	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1336.2	241.3	17.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	285.7	74.9	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	58.3	54.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.5	86.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.1	62.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	9.2	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)