

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: P193473

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-8030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193473
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-8030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA 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: 19873 lumens
Efficiency: N/A
Efficacy: 71.2 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): 279
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

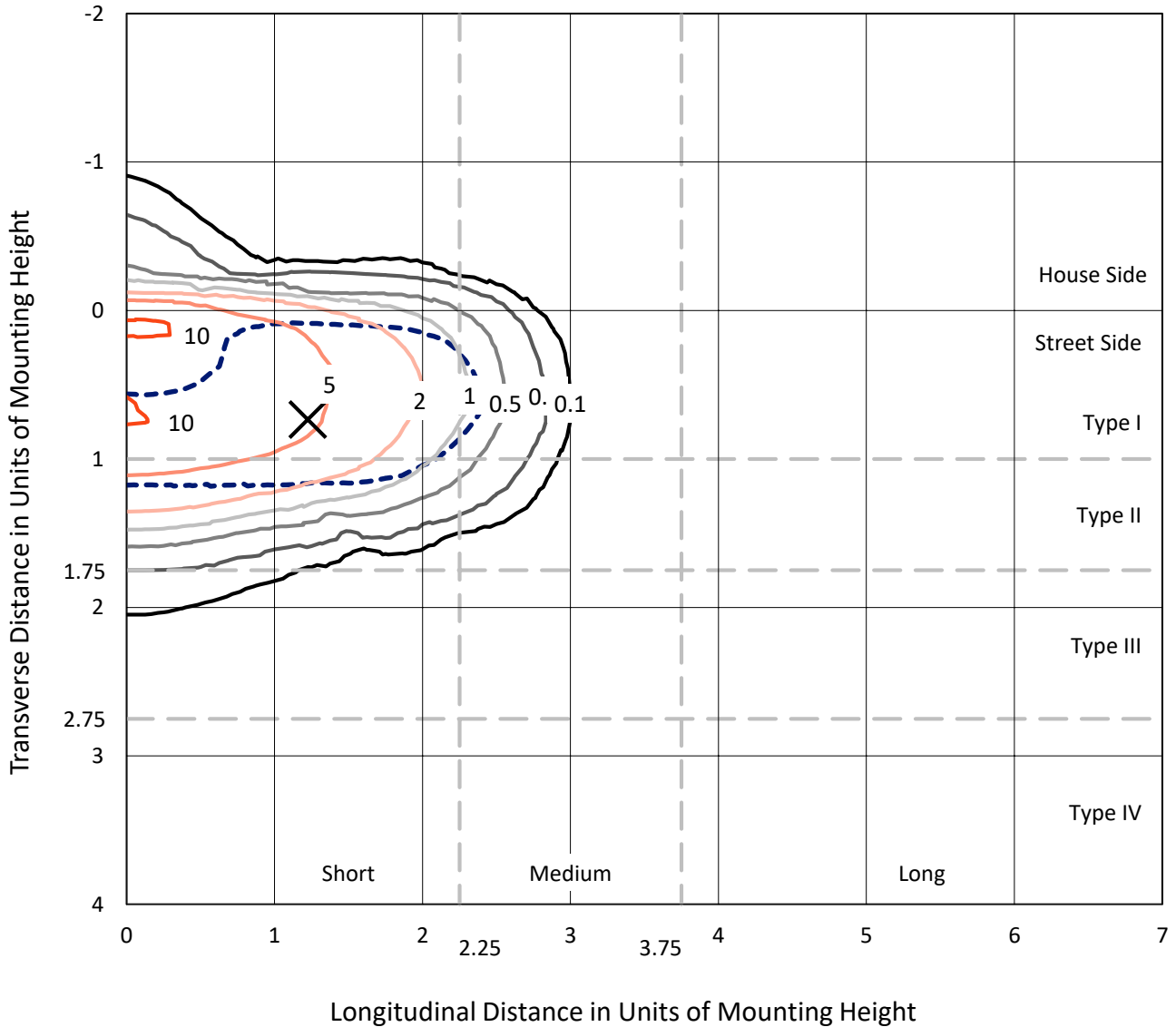


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

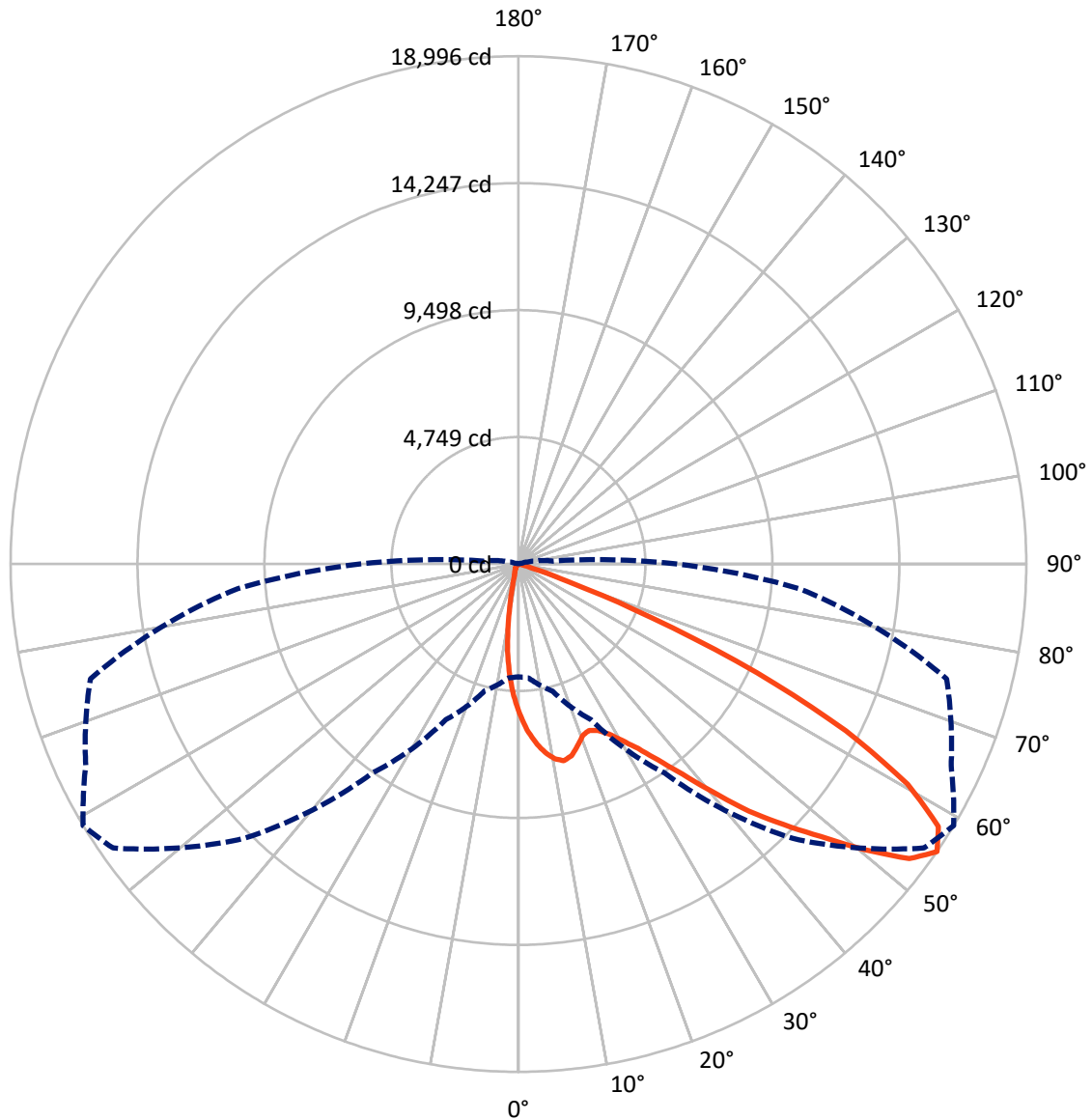


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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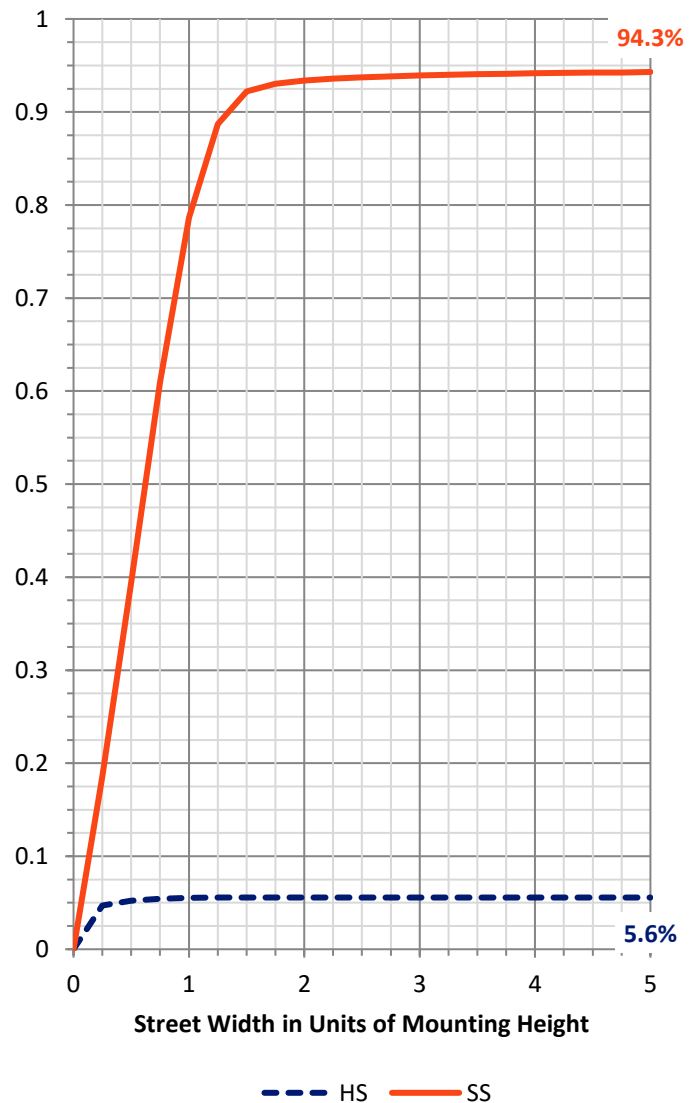
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.0	0.0	1110.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	18763.0	0.0	18763.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	19873.0	0.0	19873.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.6	2.4
10°-20°	1121.9	5.6
20°-30°	1909.0	9.6
30°-40°	3283.1	16.5
40°-50°	5068.8	25.5
50°-60°	5095.7	25.6
60°-70°	2613.1	13.1
70°-80°	283.2	1.4
80°-90°	29.6	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°	19873.0	100.0
0°-180°	19873.0	100.0

Coefficient of Utilization



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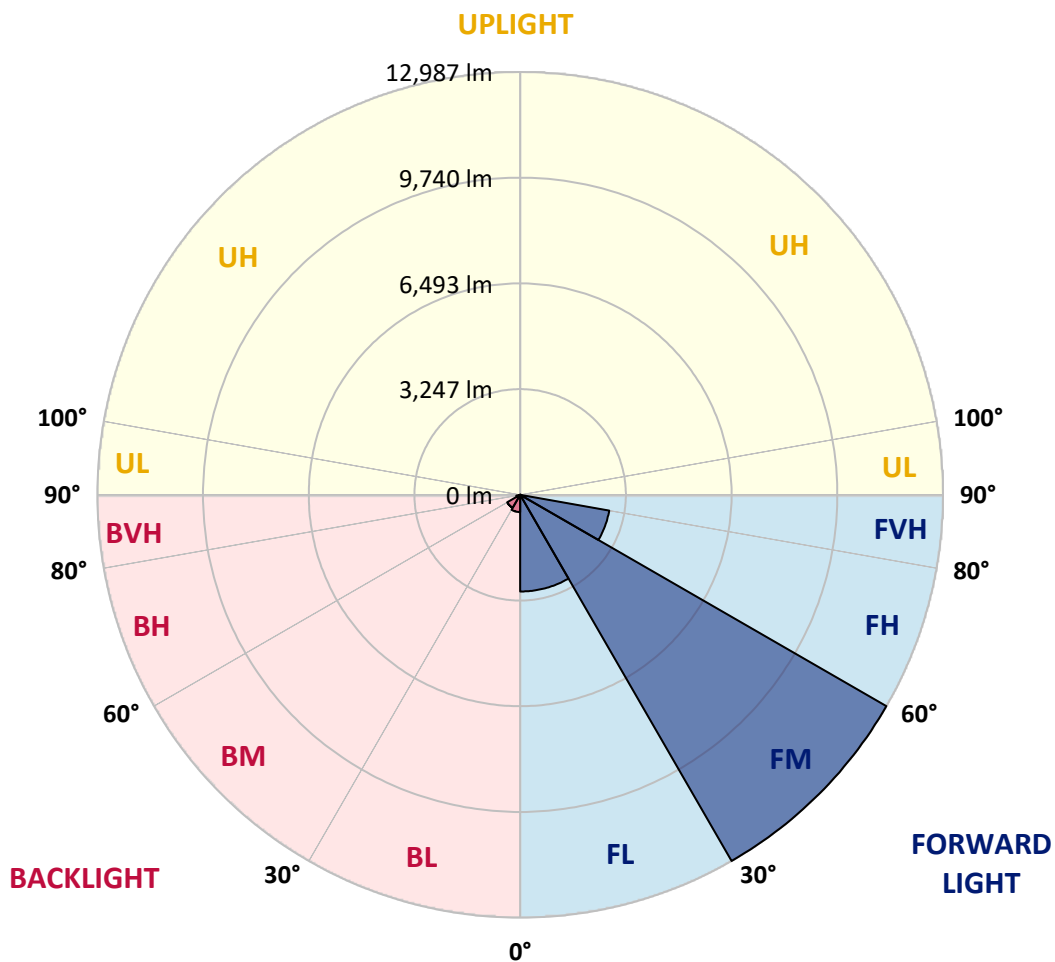
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2969.7	14.9			
FM	(30°-60°)	12986.9	65.3			
FH	(60°-80°)	2777.4	14.0			G2/5000
FVH	(80°-90°)	29.0	0.1			G1/100
BL	(0°-30°)	529.8	2.7	B2/1000		
BM	(30°-60°)	460.7	2.3	B1/1000		
BH	(60°-80°)	118.9	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°	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2
2.5°	6619.2	6548.8	6527.7	6513.6	6449.1	6368.2	6258.0	6206.4	6100.8	5930.8	5722.0
5°	7225.5	7212.6	7165.7	7139.9	7070.7	6955.8	6779.9	6695.4	6527.7	6241.6	5867.4
7.5°	6960.5	7041.4	7105.9	7213.8	7349.8	7345.1	7197.4	7109.4	6921.8	6544.1	6029.3
10°	5936.6	6002.3	6107.9	6353.0	6852.6	7293.5	7467.1	7403.8	7253.7	6822.1	6185.3
12.5°	5736.1	5729.0	5747.8	5819.4	6080.9	6709.5	7421.4	7549.2	7518.7	7076.6	6333.0
15°	5842.8	5834.6	5832.3	5856.9	5920.2	6185.3	7077.7	7444.8	7680.6	7312.3	6458.5
17.5°	6141.9	6106.7	6087.9	6068.0	6049.2	6114.9	6664.9	7152.8	7705.2	7518.7	6562.9
20°	6654.4	6595.7	6526.5	6414.0	6308.4	6275.6	6491.4	6852.6	7617.2	7675.9	6630.9
22.5°	7298.2	7223.2	7103.6	6898.3	6683.7	6559.4	6577.0	6757.6	7485.9	7847.1	6662.6
25°	8021.8	7925.7	7766.2	7481.2	7165.7	6945.2	6830.3	6893.6	7426.1	8047.6	6698.9
27.5°	8797.0	8690.3	8481.6	8093.4	7735.7	7437.8	7203.2	7195.0	7528.1	8310.3	6757.6
30°	9565.2	9548.8	9276.7	8866.2	8392.4	8030.0	7692.3	7648.9	7813.1	8673.9	6873.7
32.5°	10590.2	10467.1	10134.0	9711.8	9165.3	8730.2	8330.3	8229.4	8250.5	9097.3	7053.1
35°	11882.6	11747.8	11278.7	10695.8	10084.8	9571.1	9128.9	8991.7	8940.1	9790.4	7355.7
37.5°	12717.7	12715.3	12421.0	11827.5	11171.9	10605.5	10124.6	9964.0	9859.6	10627.8	7824.8
40°	12739.9	12795.1	12833.8	12827.9	12361.1	11839.3	11412.4	11214.2	10971.4	11746.6	8431.1
42.5°	12056.2	12198.1	12539.4	13118.8	13395.5	13188.0	12827.9	12633.2	12272.0	12944.0	9170.0
45°	11132.1	11230.6	11827.5	12894.8	13956.1	14524.9	14250.5	13902.2	13426.0	14193.0	9832.6
47.5°	10718.1	10735.7	11121.5	12293.1	13998.3	15620.3	15786.8	15220.4	14474.5	15199.3	10351.0
50°	9480.8	9512.4	10044.9	11250.5	13503.4	16137.5	17330.2	16793.1	15618.0	15974.5	10539.8
52.5°	7145.8	7190.3	7865.9	9537.1	12143.0	15917.0	18435.0	18304.8	16870.5	16353.3	10550.4
55°	4216.2	4274.8	4919.8	6419.8	9551.1	14514.4	18517.1	18995.6	17859.1	16577.3	10533.9
57.5°	1969.1	2010.2	2379.6	3307.2	5940.1	11471.0	17281.0	18521.8	18404.5	16695.7	10650.0
60°	1046.1	1057.9	1147.0	1432.0	2684.5	7273.6	14868.6	16725.1	17907.2	16859.9	10792.0
62.5°	799.8	803.4	798.7	832.7	1128.2	3228.7	11238.8	13749.7	15905.3	16736.8	10634.8
65°	693.1	699.0	666.1	657.9	723.6	1151.7	6676.7	9801.0	12498.4	15075.0	9564.1
67.5°	621.6	623.9	584.0	550.0	561.8	622.7	2634.1	5365.5	8272.8	11050.0	6932.3
70°	572.3	570.0	526.6	472.6	457.4	425.7	837.4	1966.8	3953.5	5603.6	3224.0
72.5°	506.6	507.8	486.7	416.3	380.0	297.9	388.2	573.5	1179.8	1527.0	755.3
75°	449.2	443.3	417.5	372.9	313.1	195.9	192.3	255.7	363.6	361.2	163.0
77.5°	324.9	319.0	327.2	306.1	240.4	126.7	96.2	123.1	147.8	143.1	45.7
80°	238.1	234.6	211.1	254.5	212.3	86.8	59.8	65.7	76.2	64.5	14.1
82.5°	163.0	161.8	148.9	140.7	120.8	52.8	37.5	41.0	49.3	36.4	7.0
85°	25.8	29.3	107.9	85.6	71.5	23.5	25.8	28.1	32.8	19.9	2.3
87.5°	0.0	0.0	50.4	44.6	14.1	9.4	15.2	16.4	16.4	10.6	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°	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2	5594.2
2.5°	5615.3	5498.0	5281.0	5057.0	4849.5	4602.0	4431.9	4304.1	4156.3	4116.5	4203.3
5°	5654.0	5432.3	4965.6	4457.8	3980.4	3451.5	3046.9	2726.7	2437.0	2338.5	2427.7
7.5°	5715.0	5385.4	4624.3	3788.1	2957.8	2132.1	1566.8	1195.1	958.2	887.8	925.3
10°	5776.0	5317.4	4229.1	2995.3	1860.0	1037.9	675.5	539.5	489.1	478.5	484.4
12.5°	5826.4	5225.9	3747.0	2129.8	994.5	555.9	442.1	419.9	412.8	412.8	415.2
15°	5856.9	5087.5	3175.9	1354.6	572.3	419.9	385.8	378.8	378.8	380.0	382.3
17.5°	5853.4	4911.6	2550.8	819.8	428.1	371.8	351.8	346.0	344.8	347.1	348.3
20°	5810.0	4681.8	1923.4	540.7	372.9	338.9	319.0	308.4	307.3	309.6	312.0
22.5°	5727.9	4397.9	1375.7	416.3	336.6	307.3	282.6	273.3	273.3	275.6	277.9
25°	5628.2	4050.8	940.6	353.0	303.8	273.3	249.8	241.6	243.9	249.8	251.0
27.5°	5503.9	3660.3	639.2	302.6	263.9	239.2	221.7	215.8	221.7	229.9	232.2
30°	5397.2	3253.3	456.2	261.5	224.0	206.4	195.9	195.9	204.1	219.3	222.8
32.5°	5315.1	2859.2	351.8	231.0	194.7	179.4	173.6	179.4	192.3	207.6	211.1
35°	5304.5	2534.4	297.9	206.4	173.6	158.3	156.0	166.5	179.4	191.2	193.5
37.5°	5385.4	2234.2	268.6	186.5	154.8	140.7	138.4	151.3	164.2	178.3	181.8
40°	5539.1	1998.4	247.5	167.7	139.6	124.3	119.6	129.0	146.6	165.4	170.1
42.5°	5738.4	1803.7	224.0	148.9	124.3	103.2	97.3	107.9	126.7	146.6	152.5
45°	5928.4	1636.0	198.2	127.8	104.4	79.7	77.4	91.5	100.9	120.8	125.5
47.5°	6032.8	1488.3	175.9	104.4	80.9	64.5	64.5	68.0	77.4	100.9	105.6
50°	5997.6	1369.8	152.5	77.4	56.3	49.3	49.3	48.1	62.2	80.9	84.4
52.5°	5927.2	1301.8	131.4	59.8	38.7	35.2	31.7	35.2	43.4	51.6	52.8
55°	5916.7	1290.1	110.2	48.1	27.0	23.5	17.6	17.6	17.6	16.4	14.1
57.5°	5998.8	1308.8	92.6	38.7	19.9	15.2	9.4	0.0	0.0	0.0	0.0
60°	6083.2	1328.8	79.7	27.0	14.1	8.2	1.2	0.0	0.0	0.0	0.0
62.5°	5942.5	1284.2	66.8	16.4	10.6	3.5	0.0	0.0	0.0	0.0	0.0
65°	5220.1	1093.0	52.8	11.7	7.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3713.0	731.8	35.2	7.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1694.7	306.1	22.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	362.4	95.0	15.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	73.9	69.2	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.5	109.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.1	78.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	11.7	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)