

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: P190916

Luminaire Tested: **GLEON-AF-08-LED-E1-AFL-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190916
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-08-LED-E1-AFL-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 26320.5 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 257
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

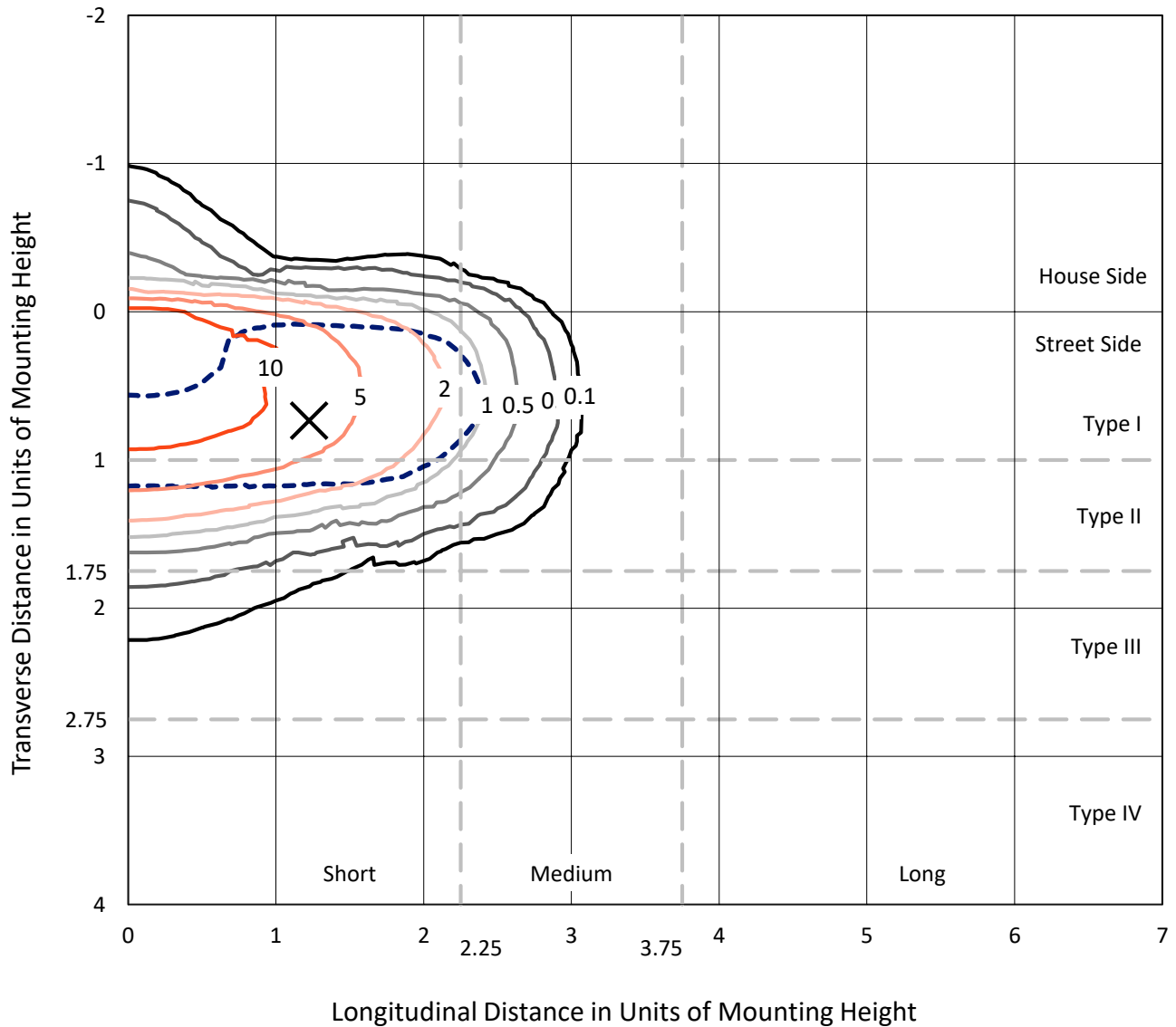


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Iso-Footcandle Lines of Horizontal Illumination

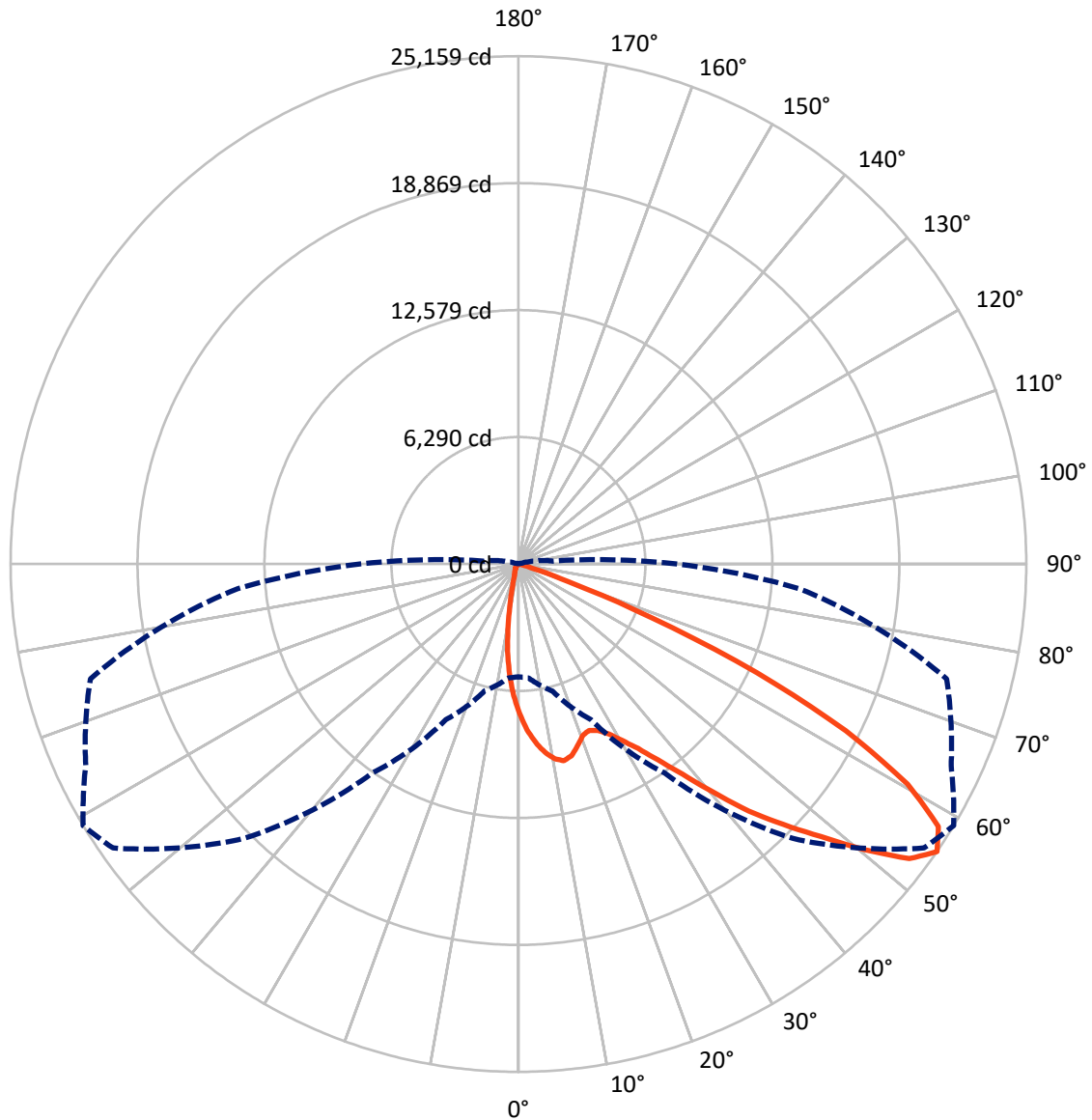
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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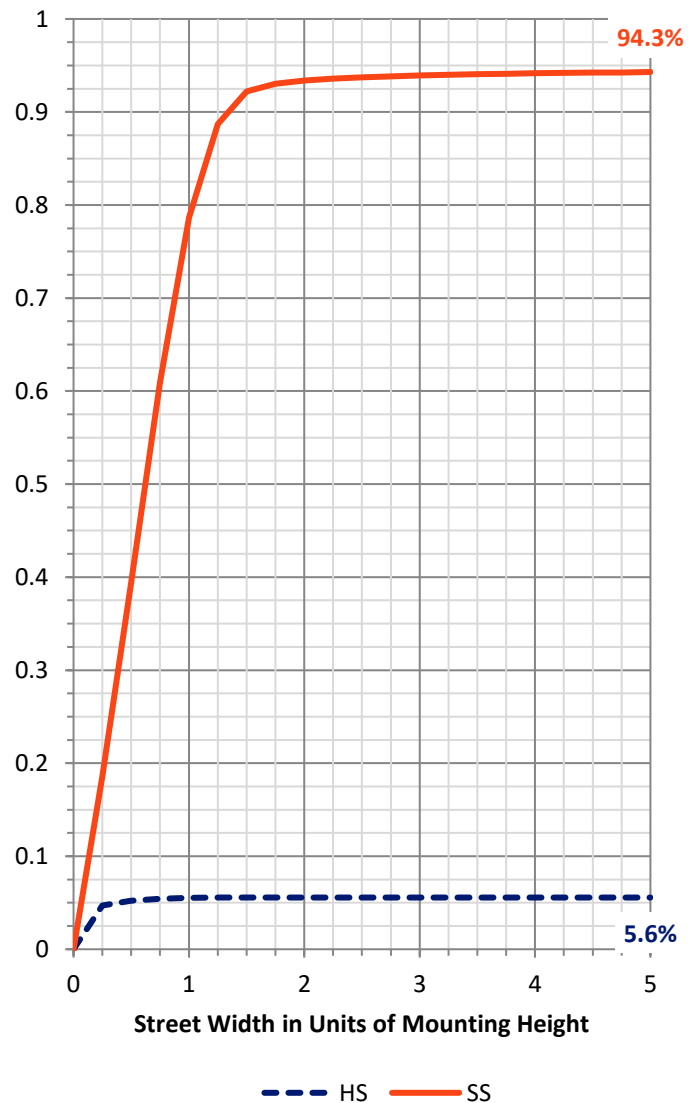
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1470.2	0.0	1470.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	24850.4	0.0	24850.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	26320.5	0.0	26320.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.6	2.4
10°-20°	1485.9	5.6
20°-30°	2528.4	9.6
30°-40°	4348.3	16.5
40°-50°	6713.3	25.5
50°-60°	6749.0	25.6
60°-70°	3460.9	13.1
70°-80°	375.1	1.4
80°-90°	39.2	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°	26320.5	100.0
0°-180°	26320.5	100.0

Coefficient of Utilization



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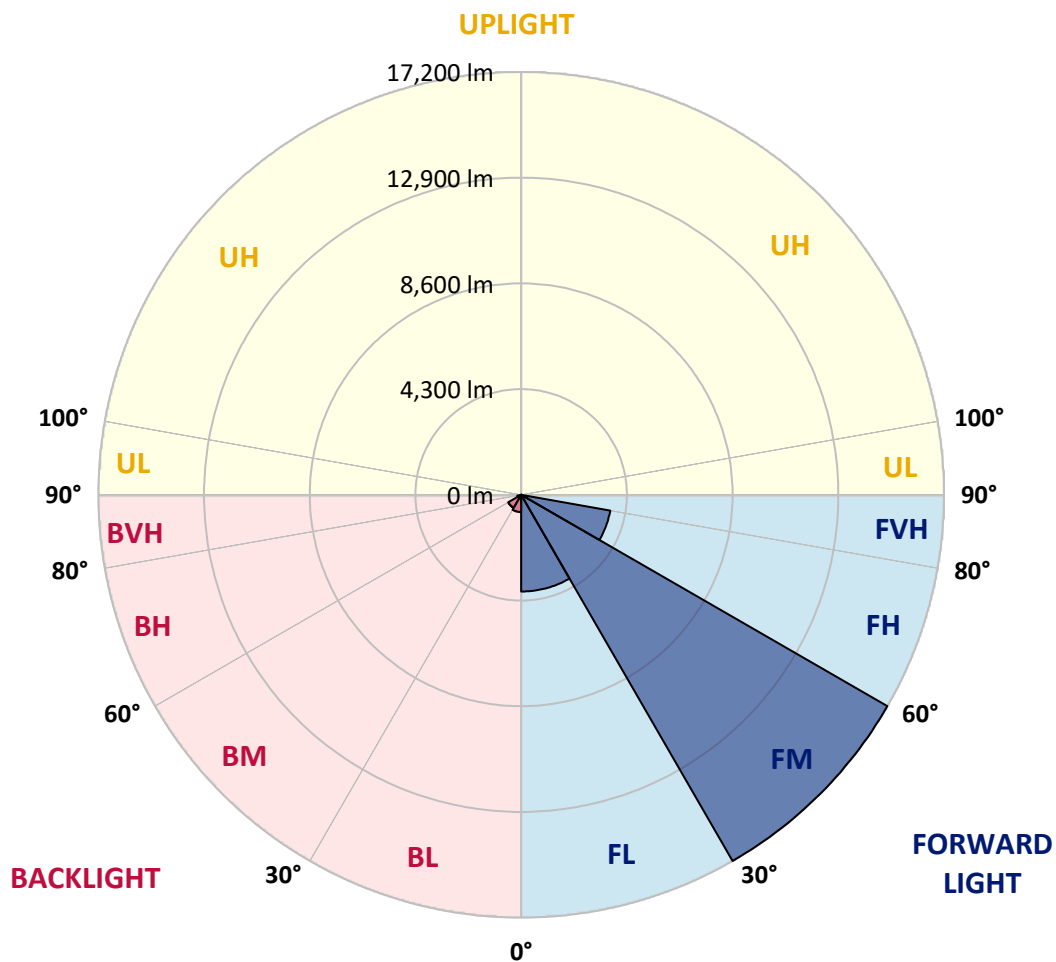
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3933.2	14.9			
FM	(30°-60°)	17200.4	65.3			
FH	(60°-80°)	3678.5	14.0			G2/5000
FVH	(80°-90°)	38.4	0.1			G1/100
BL	(0°-30°)	701.7	2.7	B2/1000		
BM	(30°-60°)	610.1	2.3	B1/1000		
BH	(60°-80°)	157.5	0.6	B1/500		G1/500
BVH	(80°-90°)	0.8	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°	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1
2.5°	8766.7	8673.5	8645.6	8626.9	8541.4	8434.3	8288.3	8219.9	8080.2	7854.9	7578.4
5°	9569.7	9552.6	9490.5	9456.4	9364.7	9212.5	8979.5	8867.7	8645.6	8266.6	7771.1
7.5°	9218.7	9325.8	9411.4	9554.3	9734.4	9728.2	9532.5	9416.0	9167.5	8667.3	7985.4
10°	7862.7	7949.7	8089.5	8414.1	9075.8	9659.8	9889.7	9805.8	9607.0	9035.4	8192.0
12.5°	7597.0	7587.7	7612.6	7707.3	8053.7	8886.3	9829.1	9998.4	9958.0	9372.5	8387.7
15°	7738.4	7727.6	7724.4	7757.0	7840.9	8192.0	9374.0	9860.2	10172.4	9684.7	8553.9
17.5°	8134.5	8088.0	8063.1	8036.6	8011.9	8098.8	8827.2	9473.4	10205.1	9958.0	8692.1
20°	8813.3	8735.6	8644.0	8494.9	8355.1	8311.6	8597.4	9075.8	10088.5	10166.2	8782.2
22.5°	9666.1	9566.6	9408.2	9136.4	8852.1	8687.5	8710.7	8950.0	9914.5	10393.0	8824.2
25°	10624.4	10497.0	10285.8	9908.4	9490.5	9198.5	9046.3	9130.1	9835.4	10658.6	8872.4
27.5°	11651.1	11509.8	11233.3	10719.2	10245.5	9850.9	9540.2	9529.4	9970.5	11006.5	8950.0
30°	12668.5	12646.7	12286.5	11742.8	11115.3	10635.3	10188.0	10130.5	10348.0	11488.0	9103.8
32.5°	14026.1	13863.0	13421.8	12862.7	12138.8	11562.6	11032.9	10899.3	10927.3	12048.7	9341.4
35°	15737.8	15559.2	14937.8	14165.9	13356.7	12676.3	12090.7	11909.0	11840.7	12966.7	9742.2
37.5°	16843.7	16840.6	16450.8	15664.8	14796.5	14046.2	13409.5	13196.7	13058.4	14075.8	10363.5
40°	16873.3	16946.3	16997.6	16989.8	16371.5	15680.3	15114.9	14852.4	14530.9	15557.6	11166.5
42.5°	15967.6	16155.7	16607.6	17374.9	17741.5	17466.6	16989.8	16731.9	16253.5	17143.5	12145.1
45°	14743.7	14874.2	15664.8	17078.3	18484.0	19237.3	18873.9	18412.5	17782.0	18797.7	13022.7
47.5°	14195.4	14218.7	14729.8	16281.5	18540.0	20688.1	20908.7	20158.5	19170.5	20130.4	13709.2
50°	12556.7	12598.7	13303.8	14900.6	17884.5	21373.1	22952.8	22241.4	20685.0	21157.2	13959.3
52.5°	9464.1	9523.2	10417.8	12631.3	16082.6	21081.1	24416.0	24243.5	22343.9	21658.9	13973.3
55°	5584.0	5661.7	6516.0	8502.7	12649.9	19223.4	24524.7	25158.5	23653.3	21955.6	13951.5
57.5°	2607.9	2662.3	3151.6	4380.3	7867.3	15192.6	22887.5	24530.9	24375.6	22112.4	14105.3
60°	1385.5	1401.0	1519.1	1896.6	3555.5	9633.4	19692.4	22151.3	23717.0	22329.9	14293.3
62.5°	1059.4	1064.0	1057.7	1102.8	1494.2	4276.1	14885.1	18210.7	21065.5	22166.8	14085.1
65°	918.0	925.8	882.3	871.3	958.4	1525.3	8842.8	12980.7	16553.3	19965.9	12667.0
67.5°	823.3	826.3	773.6	728.4	744.0	824.8	3488.7	7106.2	10956.8	14634.9	9181.4
70°	758.0	754.9	697.4	625.9	605.8	563.9	1109.1	2604.8	5236.1	7421.5	4270.0
72.5°	671.1	672.6	644.6	551.4	503.3	394.6	514.1	759.5	1562.6	2022.4	1000.3
75°	594.9	587.2	553.0	494.0	414.7	259.4	254.7	338.6	481.5	478.4	215.9
77.5°	430.3	422.5	433.3	405.4	318.4	167.8	127.4	163.1	195.7	189.5	60.6
80°	315.3	310.7	279.6	337.1	281.1	115.0	79.2	87.0	101.0	85.4	18.6
82.5°	215.9	214.3	197.2	186.4	160.0	69.9	49.7	54.3	65.3	48.2	9.3
85°	34.2	38.9	142.9	113.3	94.7	31.1	34.2	37.2	43.5	26.4	3.1
87.5°	0.0	0.0	66.8	59.0	18.6	12.4	20.2	21.8	21.8	14.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1	7409.1
2.5°	7437.1	7281.8	6994.4	6697.8	6422.8	6095.0	5869.8	5700.5	5504.8	5452.0	5566.9
5°	7488.3	7194.8	6576.6	5904.0	5271.8	4571.3	4035.4	3611.3	3227.7	3097.2	3215.2
7.5°	7569.1	7132.6	6124.6	5017.1	3917.4	2823.9	2075.2	1582.8	1269.1	1175.9	1225.5
10°	7649.9	7042.6	5601.2	3967.1	2463.5	1374.6	894.7	714.5	647.7	633.7	641.5
12.5°	7716.7	6921.4	4962.7	2820.8	1317.2	736.2	585.5	556.1	546.8	546.8	549.8
15°	7757.0	6738.1	4206.3	1794.1	758.0	556.1	511.1	501.8	501.8	503.3	506.4
17.5°	7752.4	6505.1	3378.4	1085.8	566.9	492.3	466.0	458.2	456.6	459.8	461.4
20°	7694.9	6200.7	2547.4	716.1	494.0	448.9	422.5	408.5	406.9	410.1	413.2
22.5°	7586.2	5824.8	1822.0	551.4	445.8	406.9	374.3	361.9	361.9	365.0	368.2
25°	7454.1	5365.1	1245.7	467.5	402.3	361.9	330.8	320.0	323.0	330.8	332.4
27.5°	7289.5	4847.8	846.5	400.8	349.4	316.9	293.6	285.8	293.6	304.4	307.5
30°	7148.2	4308.8	604.3	346.4	296.7	273.3	259.4	259.4	270.3	290.4	295.1
32.5°	7039.4	3786.9	466.0	306.0	257.9	237.6	229.9	237.6	254.7	275.0	279.6
35°	7025.5	3356.6	394.6	273.3	229.9	209.7	206.6	220.5	237.6	253.2	256.2
37.5°	7132.6	2959.0	355.7	246.9	205.0	186.4	183.3	200.4	217.5	236.1	240.8
40°	7336.1	2646.8	327.8	222.1	184.8	164.7	158.5	170.8	194.2	219.0	225.3
42.5°	7600.2	2388.9	296.7	197.2	164.7	136.7	128.9	142.9	167.8	194.2	201.9
45°	7851.9	2166.8	262.5	169.3	138.2	105.7	102.5	121.1	133.6	160.0	166.2
47.5°	7990.1	1971.1	233.0	138.2	107.2	85.4	85.4	90.1	102.5	133.6	139.8
50°	7943.4	1814.2	201.9	102.5	74.6	65.3	65.3	63.7	82.3	107.2	111.8
52.5°	7850.2	1724.2	174.0	79.2	51.2	46.6	41.9	46.6	57.5	68.3	69.9
55°	7836.3	1708.6	146.0	63.7	35.7	31.1	23.3	23.3	23.3	21.8	18.6
57.5°	7945.1	1733.5	122.8	51.2	26.4	20.2	12.4	0.0	0.0	0.0	0.0
60°	8056.9	1759.9	105.7	35.7	18.6	10.8	1.5	0.0	0.0	0.0	0.0
62.5°	7870.5	1700.9	88.6	21.8	14.0	4.7	0.0	0.0	0.0	0.0	0.0
65°	6913.6	1447.7	69.9	15.5	9.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4917.6	969.2	46.6	9.3	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	2244.5	405.4	29.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	480.0	125.8	20.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	97.9	91.7	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	31.1	144.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.6	104.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	15.5	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)