

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: P269455

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269455
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-07-LED-E1-AFL-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 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: 19728.8 lumens
Efficiency: N/A
Efficacy: 87.3 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): 226
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

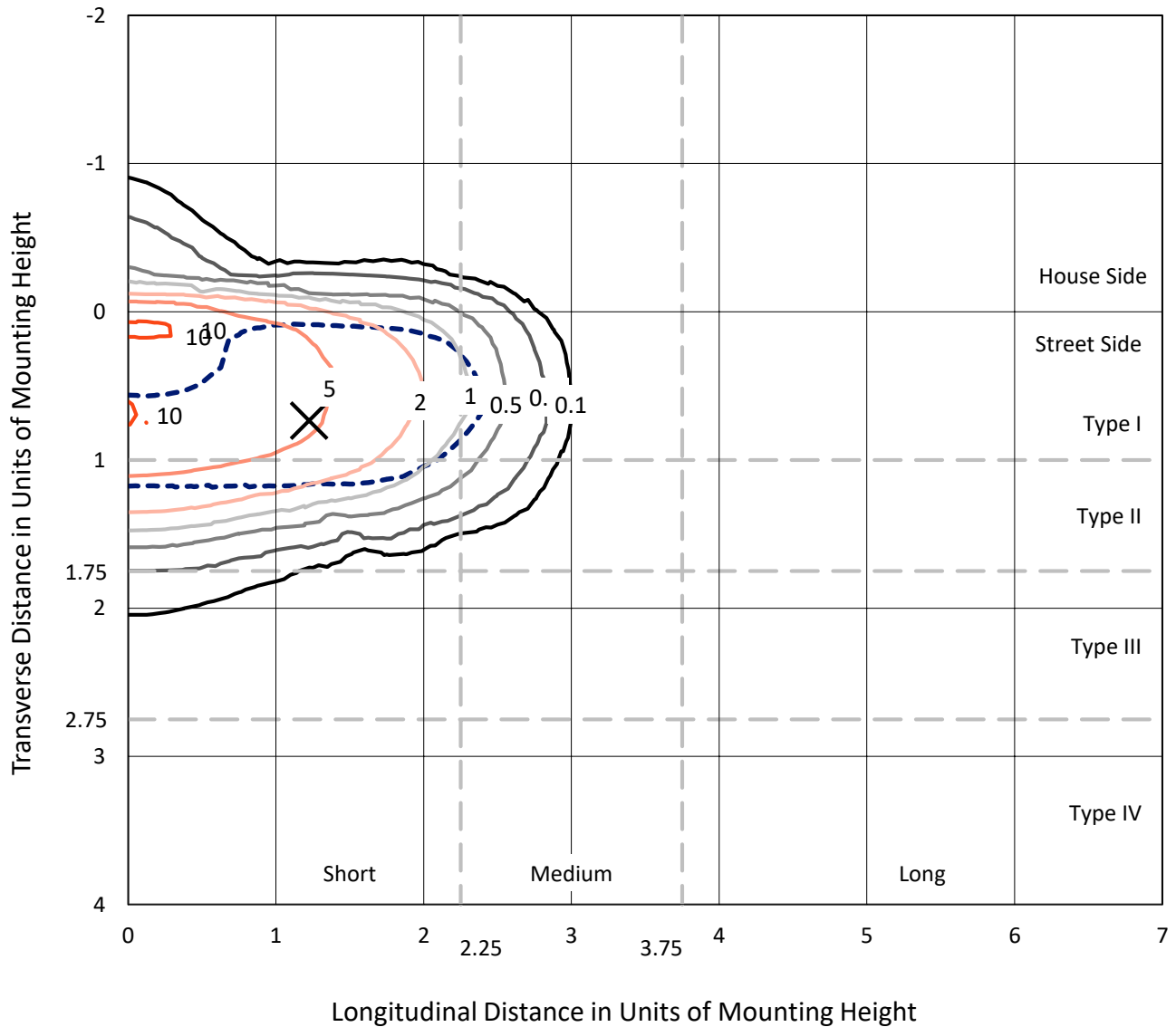


REPORT NUMBER: P269455

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7027-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

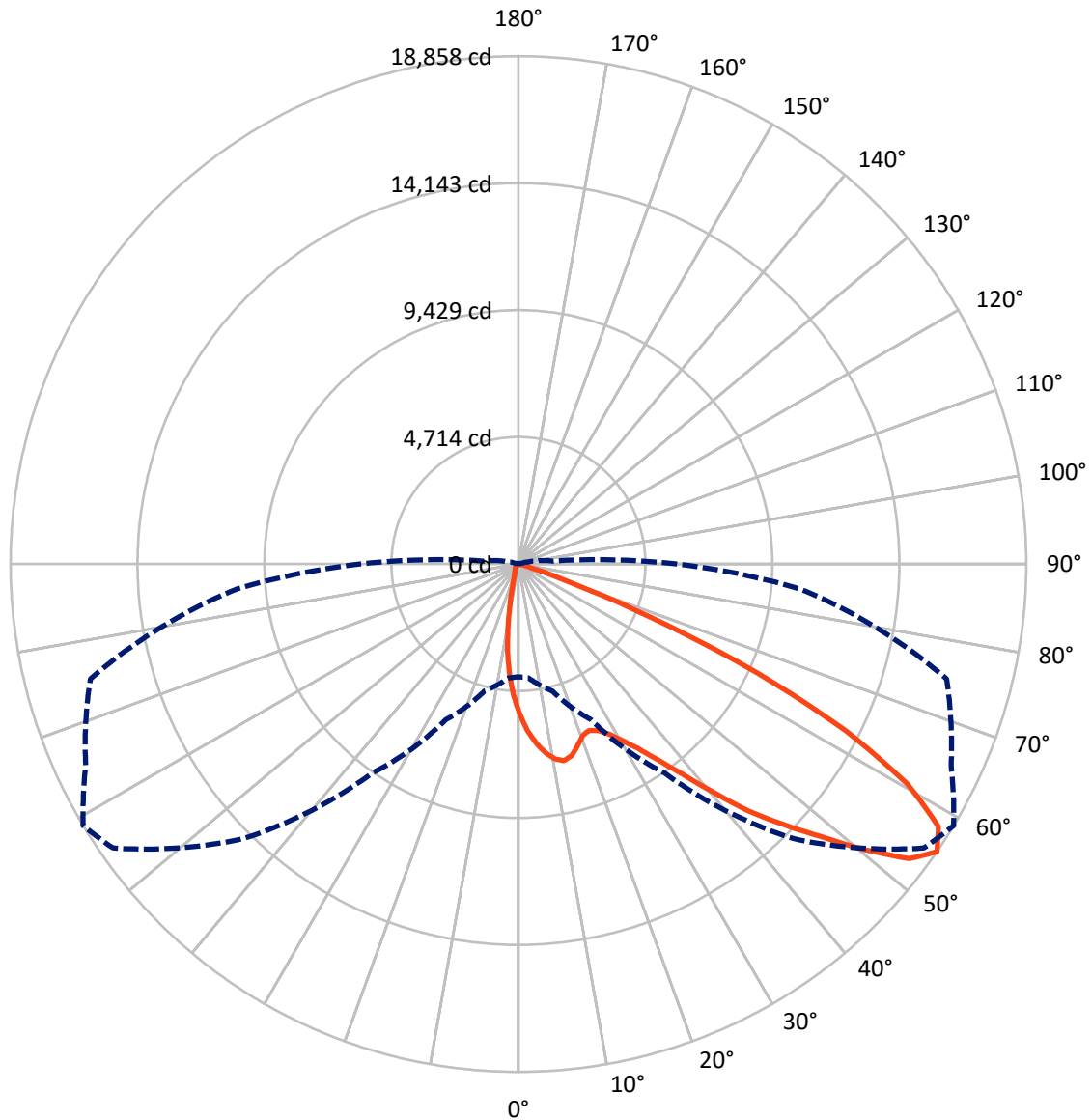


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P269455

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7027-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269455

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7027-600-HSS

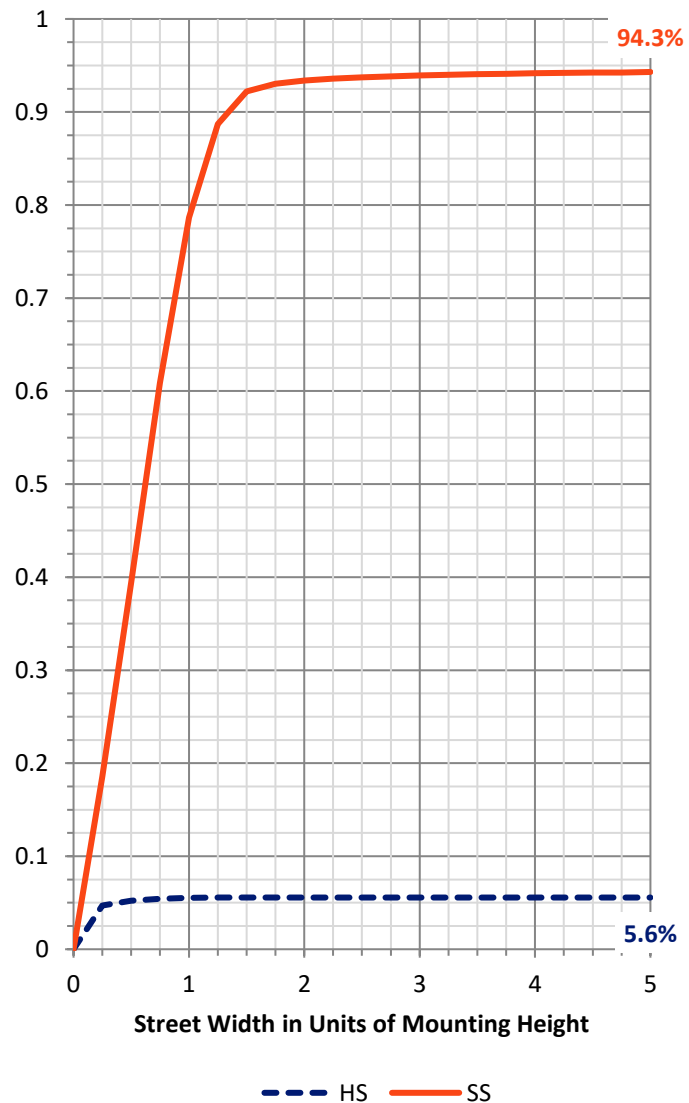
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1102.0	0.0	1102.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	18626.8	0.0	18626.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	19728.8	0.0	19728.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	465.2	2.4
10°-20°	1113.7	5.6
20°-30°	1895.2	9.6
30°-40°	3259.3	16.5
40°-50°	5032.0	25.5
50°-60°	5058.7	25.6
60°-70°	2594.2	13.1
70°-80°	281.1	1.4
80°-90°	29.4	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°	19728.8	100.0
0°-180°	19728.8	100.0

Coefficient of Utilization



REPORT NUMBER: P269455

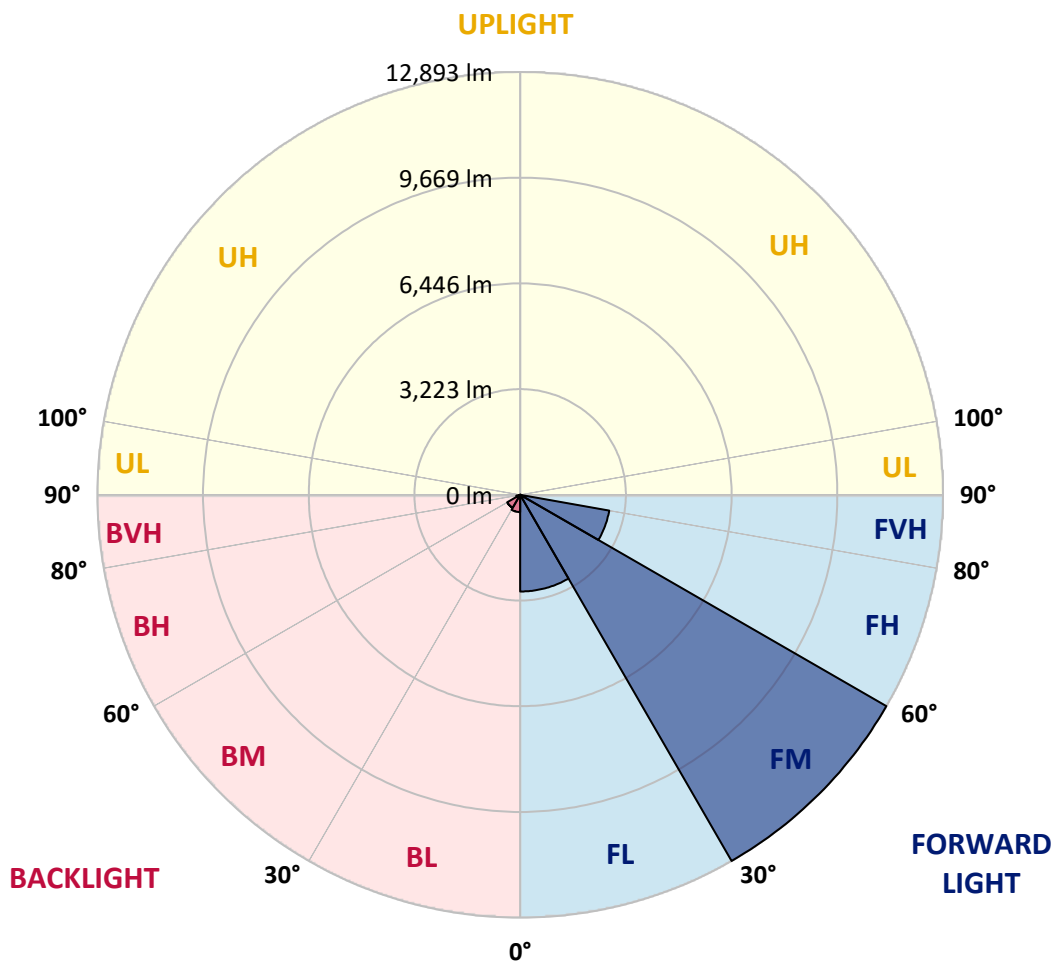
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2948.1	14.9			
FM (30°-60°)	12892.7	65.3			
FH (60°-80°)	2757.2	14.0			G2/5000
FVH (80°-90°)	28.8	0.1			G1/100
BL (0°-30°)	526.0	2.7	B2/1000		
BM (30°-60°)	457.3	2.3	B1/1000		
BH (60°-80°)	118.1	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





REPORT NUMBER: P269455

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7027-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6
2.5°	6571.1	6501.4	6480.4	6466.4	6402.3	6322.0	6212.6	6161.4	6056.6	5887.8	5680.5
5°	7173.1	7160.3	7113.7	7088.0	7019.4	6905.4	6730.6	6646.7	6480.4	6196.2	5824.9
7.5°	6909.9	6990.3	7054.3	7161.5	7296.6	7291.8	7145.1	7057.9	6871.6	6496.6	5985.5
10°	5893.5	5958.7	6063.5	6306.9	6802.9	7240.6	7413.0	7350.0	7201.1	6772.6	6140.4
12.5°	5694.4	5687.4	5706.2	5777.1	6036.7	6660.8	7367.4	7494.4	7464.1	7025.3	6287.1
15°	5800.4	5792.2	5789.9	5814.4	5877.3	6140.4	7026.5	7390.7	7624.9	7259.3	6411.7
17.5°	6097.2	6062.3	6043.7	6023.9	6005.3	6070.4	6616.6	7100.9	7649.2	7464.1	6515.2
20°	6606.0	6547.8	6479.1	6367.4	6262.7	6230.0	6444.3	6802.9	7561.9	7620.1	6582.8
22.5°	7245.3	7170.7	7052.0	6848.3	6635.2	6511.8	6529.2	6708.5	7431.6	7790.1	6614.2
25°	7963.7	7868.2	7709.9	7426.8	7113.7	6894.9	6780.8	6843.6	7372.2	7989.3	6650.3
27.5°	8733.2	8627.2	8420.1	8034.6	7679.5	7383.8	7151.0	7142.9	7473.4	8250.0	6708.5
30°	9495.9	9479.5	9209.3	8802.0	8331.5	7971.7	7636.4	7593.4	7756.3	8611.0	6823.7
32.5°	10513.4	10391.1	10060.5	9641.2	9098.8	8666.8	8269.8	8169.6	8190.7	9031.3	7001.8
35°	11796.5	11662.5	11196.8	10618.1	10011.6	9501.6	9062.7	8926.5	8875.3	9719.3	7302.3
37.5°	12625.4	12623.1	12330.9	11741.7	11090.8	10528.6	10051.1	9891.6	9788.0	10550.7	7768.1
40°	12647.4	12702.3	12740.7	12734.8	12271.4	11753.3	11329.6	11132.8	10891.8	11661.3	8370.0
42.5°	11968.7	12109.6	12448.4	13023.5	13298.2	13092.3	12734.8	12541.5	12183.0	12850.1	9103.5
45°	11051.3	11149.0	11741.7	12801.1	13854.7	14419.6	14147.0	13801.3	13328.6	14090.0	9761.3
47.5°	10640.2	10657.8	11040.8	12204.0	13896.7	15506.9	15672.3	15109.9	14369.5	15089.0	10275.8
50°	9412.0	9443.4	9971.9	11168.8	13405.4	16020.4	17204.5	16671.3	15504.6	15858.6	10463.3
52.5°	7093.9	7138.1	7808.7	9467.9	12054.9	15801.5	18301.2	18172.0	16748.0	16234.6	10473.8
55°	4185.6	4243.8	4884.2	6373.2	9481.8	14409.1	18382.6	18857.7	17729.5	16456.9	10457.4
57.5°	1954.8	1995.6	2362.4	3283.2	5897.1	11387.8	17155.6	18387.3	18270.8	16574.5	10572.7
60°	1038.5	1050.2	1138.6	1421.6	2665.0	7220.8	14760.6	16603.7	17777.3	16737.6	10713.6
62.5°	794.0	797.5	792.8	826.6	1120.0	3205.2	11157.2	13649.9	15789.9	16615.3	10557.6
65°	688.1	693.9	661.3	653.2	718.4	1143.4	6628.2	9729.8	12407.6	14965.6	9494.6
67.5°	617.0	619.4	579.8	546.0	557.7	618.3	2615.0	5326.5	8212.8	10969.7	6882.1
70°	568.2	565.8	522.8	469.3	454.1	422.7	831.3	1952.5	3924.8	5562.8	3200.7
72.5°	503.1	504.0	483.2	413.3	377.2	295.7	385.4	569.3	1171.3	1515.9	749.7
75°	445.9	440.1	414.5	370.2	310.9	194.5	190.9	253.9	360.8	358.7	161.9
77.5°	322.5	316.7	324.8	303.8	238.7	125.8	95.5	122.3	146.8	142.0	45.5
80°	236.3	232.8	209.6	252.7	210.7	86.1	59.4	65.1	75.6	64.0	14.0
82.5°	161.9	160.6	148.0	139.6	120.0	52.5	37.3	40.8	48.9	36.1	6.9
85°	25.6	29.1	107.1	85.0	71.1	23.3	25.6	27.9	32.6	19.9	2.3
87.5°	0.0	0.0	50.0	44.2	14.0	9.3	15.1	16.3	16.3	10.5	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



REPORT NUMBER: P269455

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-7027-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6	5553.6
2.5°	5574.5	5458.1	5242.7	5020.4	4814.2	4568.6	4399.8	4272.9	4126.2	4086.6	4172.7
5°	5613.0	5393.0	4929.4	4425.4	3951.6	3426.4	3024.8	2707.0	2419.3	2321.6	2410.1
7.5°	5673.4	5346.4	4590.7	3760.7	2936.3	2116.6	1555.4	1186.4	951.2	881.3	918.5
10°	5734.1	5278.8	4198.4	2973.6	1846.6	1030.4	670.7	535.6	485.5	475.1	480.9
12.5°	5784.0	5188.0	3719.8	2114.3	987.2	551.9	438.9	416.9	409.8	409.8	412.1
15°	5814.4	5050.6	3152.8	1344.8	568.2	416.9	383.0	376.1	376.1	377.2	379.5
17.5°	5810.9	4876.0	2532.3	813.9	425.0	369.1	349.4	343.4	342.3	344.6	345.8
20°	5767.7	4647.8	1909.3	536.7	370.2	336.4	316.7	306.2	305.1	307.4	309.6
22.5°	5686.4	4366.0	1365.8	413.3	334.2	305.1	280.6	271.3	271.3	273.7	275.9
25°	5587.4	4021.4	933.8	350.5	301.6	271.3	248.0	239.8	242.2	248.0	249.2
27.5°	5463.9	3633.7	634.6	300.4	261.9	237.5	220.1	214.2	220.1	228.2	230.5
30°	5358.0	3229.6	452.8	259.6	222.4	205.0	194.5	194.5	202.6	217.7	221.3
32.5°	5276.5	2838.6	349.4	229.3	193.2	178.1	172.4	178.1	190.9	206.2	209.6
35°	5266.0	2516.1	295.7	205.0	172.4	157.2	154.9	165.3	178.1	189.8	192.1
37.5°	5346.4	2217.9	266.5	185.1	153.7	139.6	137.4	150.1	163.0	177.0	180.5
40°	5498.9	1983.9	245.6	166.5	138.6	123.3	118.8	128.1	145.5	164.2	168.8
42.5°	5696.8	1790.6	222.4	148.0	123.3	102.4	96.7	107.1	125.8	145.5	151.4
45°	5885.3	1624.1	196.8	126.9	103.7	79.2	76.8	90.8	100.2	120.0	124.5
47.5°	5989.0	1477.4	174.6	103.7	80.4	64.0	64.0	67.6	76.8	100.2	104.8
50°	5954.1	1359.9	151.4	76.8	55.9	48.9	48.9	47.7	61.8	80.4	83.8
52.5°	5884.3	1292.3	130.4	59.4	38.4	34.9	31.4	34.9	43.1	51.3	52.5
55°	5873.7	1280.8	109.5	47.7	26.8	23.3	17.4	17.4	17.4	16.3	14.0
57.5°	5955.3	1299.3	91.9	38.4	19.9	15.1	9.3	0.0	0.0	0.0	0.0
60°	6039.0	1319.2	79.2	26.8	14.0	8.2	1.2	0.0	0.0	0.0	0.0
62.5°	5899.3	1274.9	66.4	16.3	10.5	3.6	0.0	0.0	0.0	0.0	0.0
65°	5182.1	1085.2	52.5	11.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3686.0	726.5	34.9	6.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1682.3	303.8	22.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	359.7	94.3	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	73.3	68.7	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.3	108.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.0	78.1	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)