

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: P269059

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269059
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-02-LED-E1-AFL-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 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: 9501.7 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 129
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

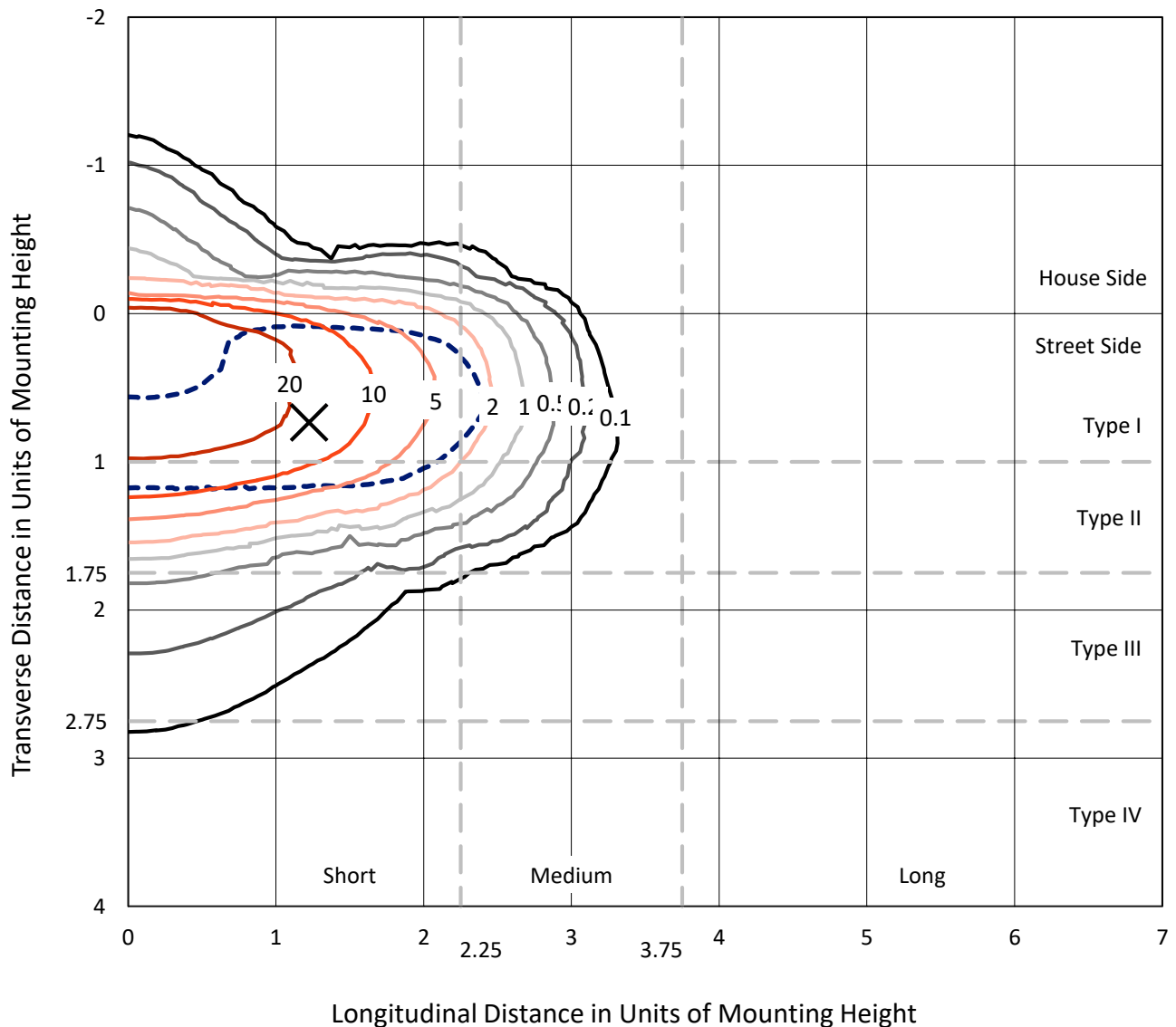


REPORT NUMBER: P269059

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-7027-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

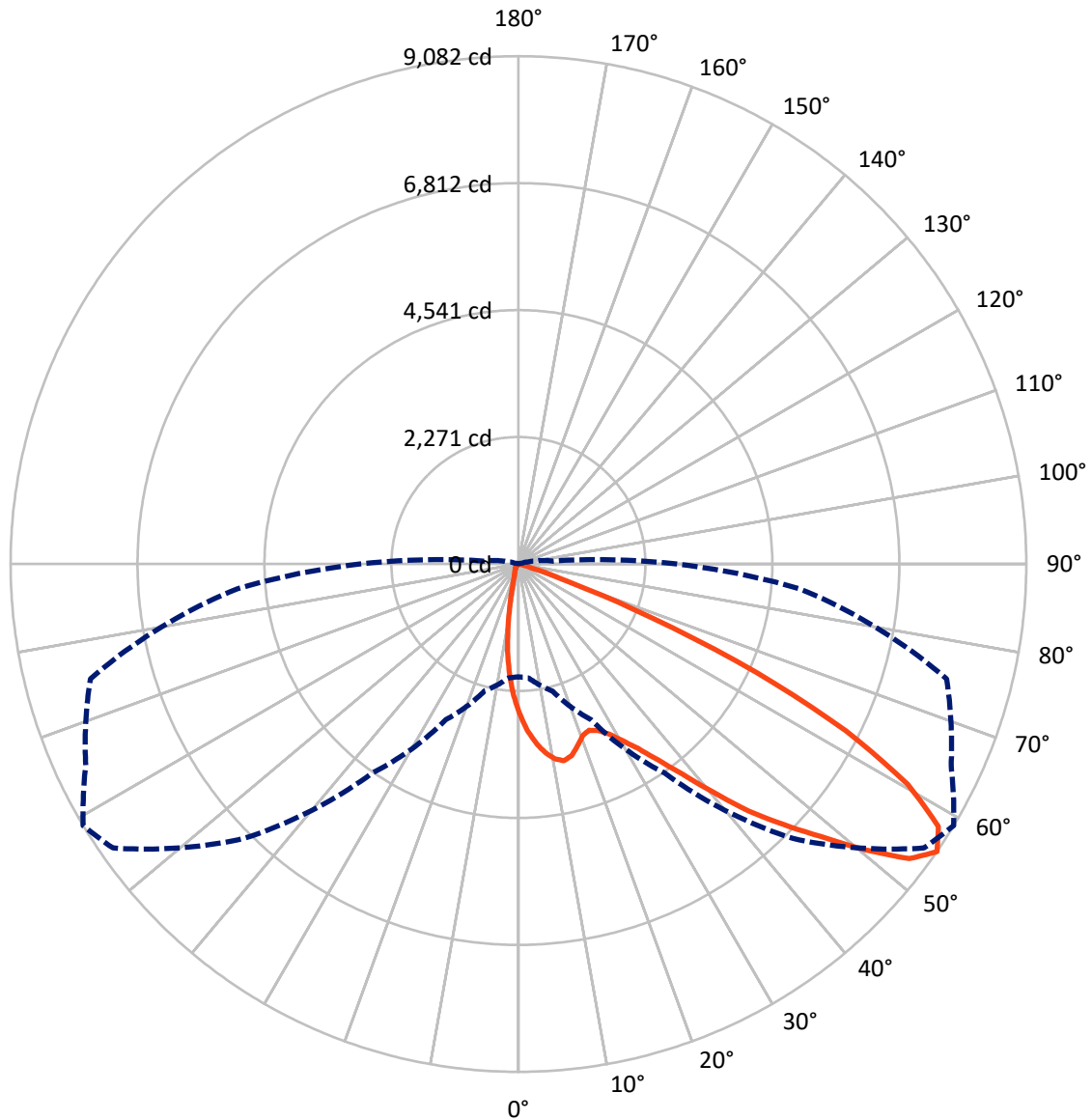


Based on 10 foot mounting height. Maximum calculated value = 33.3 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P269059

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-7027-1200-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269059

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-7027-1200-HSS

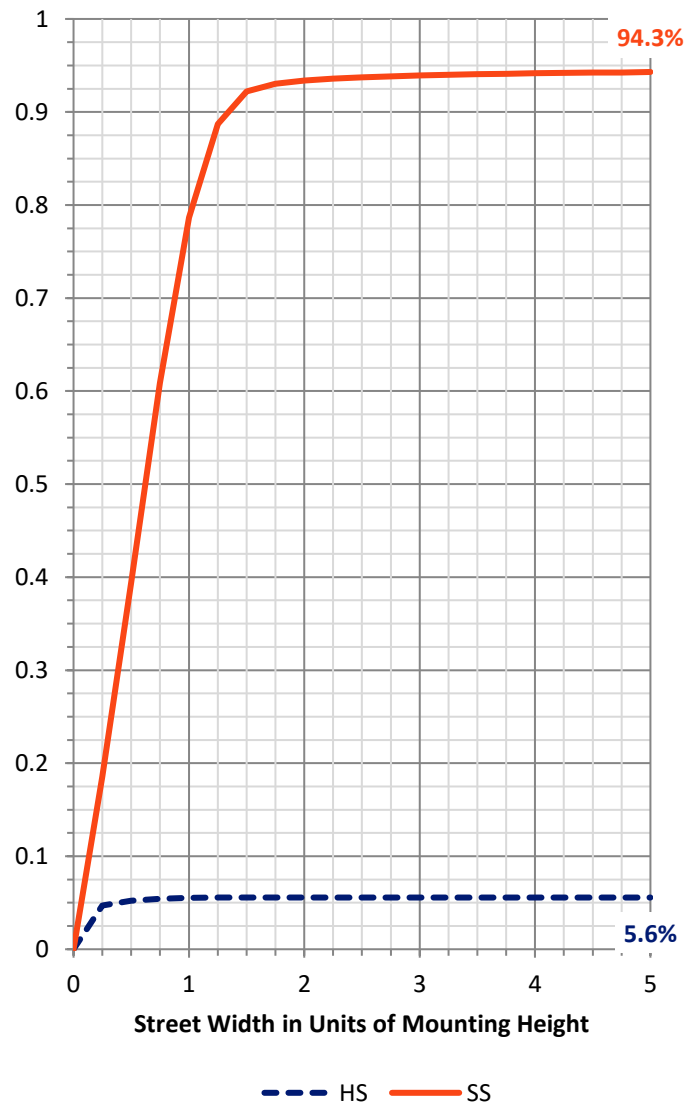
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	530.7	0.0	530.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8971.0	0.0	8971.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	9501.7	0.0	9501.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	2.4
10°-20°	536.4	5.6
20°-30°	912.8	9.6
30°-40°	1569.7	16.5
40°-50°	2423.5	25.5
50°-60°	2436.4	25.6
60°-70°	1249.4	13.1
70°-80°	135.4	1.4
80°-90°	14.2	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°	9501.7	100.0
0°-180°	9501.7	100.0



REPORT NUMBER: P269059

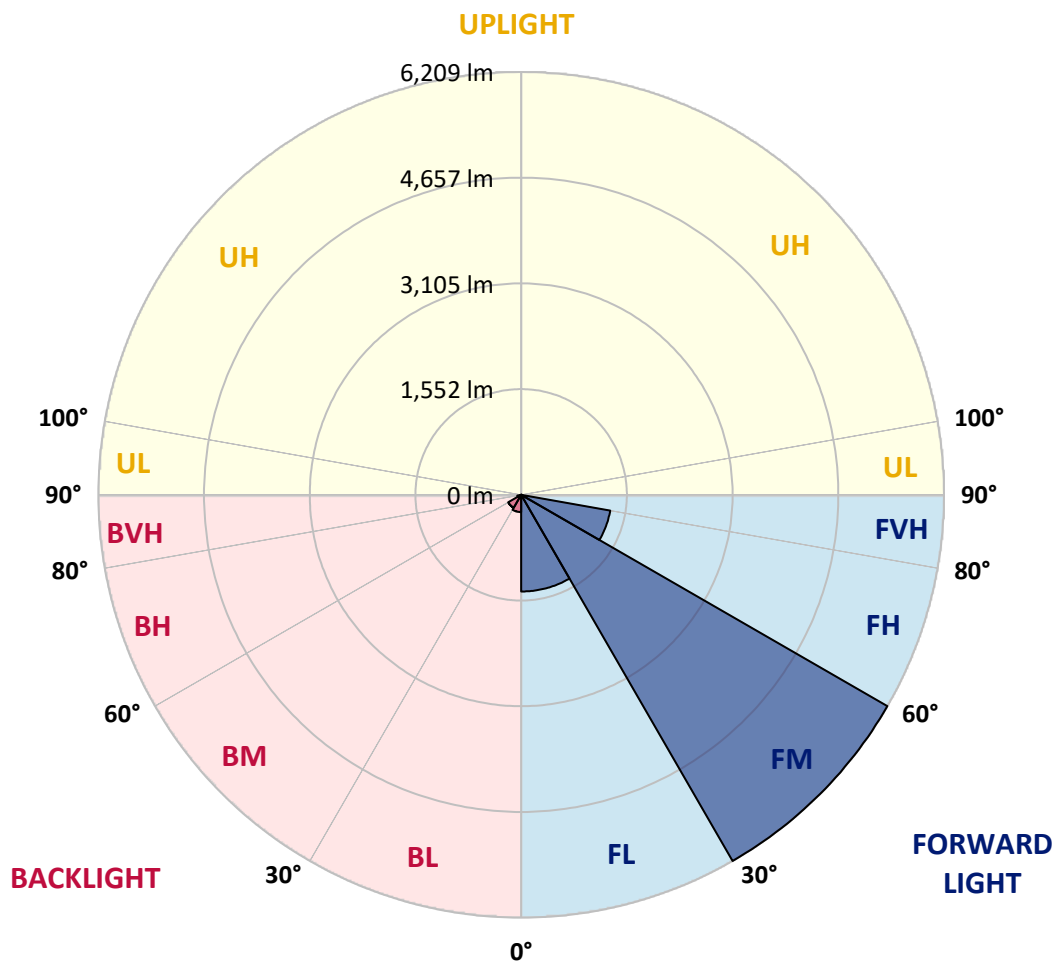
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1419.9	14.9			
FM (30°-60°)	6209.3	65.3			
FH (60°-80°)	1327.9	14.0			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	253.3	2.7	B1/500		
BM (30°-60°)	220.2	2.3	B1/1000		
BH (60°-80°)	56.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.3	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-G1

Type II Short





REPORT NUMBER: P269059

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-7027-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8
2.5°	3164.8	3131.1	3121.0	3114.3	3083.5	3044.7	2992.1	2967.5	2916.9	2835.6	2735.8
5°	3454.7	3448.6	3426.0	3413.7	3380.7	3325.7	3241.7	3201.2	3121.0	2984.2	2805.3
7.5°	3328.0	3366.7	3397.5	3449.1	3514.1	3511.8	3441.2	3399.1	3309.4	3128.8	2882.8
10°	2838.5	2869.8	2920.3	3037.4	3276.4	3487.2	3570.3	3540.0	3468.1	3261.7	2957.3
12.5°	2742.5	2739.2	2748.2	2782.4	2907.5	3207.9	3548.3	3609.4	3594.8	3383.5	3027.9
15°	2793.5	2789.6	2788.5	2800.2	2830.6	2957.3	3384.1	3559.5	3672.2	3496.2	3088.0
17.5°	2936.6	2919.8	2910.8	2901.3	2892.3	2923.7	3186.6	3419.8	3683.9	3594.8	3137.9
20°	3181.5	3153.6	3120.5	3066.6	3016.1	3000.5	3103.6	3276.4	3642.0	3669.9	3170.4
22.5°	3489.5	3453.5	3396.3	3298.2	3195.6	3136.3	3144.5	3230.9	3579.1	3752.0	3185.5
25°	3835.5	3789.4	3713.1	3577.0	3426.0	3320.7	3265.7	3296.1	3550.6	3847.8	3202.8
27.5°	4206.0	4155.0	4055.2	3869.5	3698.6	3556.2	3444.0	3440.1	3599.4	3973.4	3230.9
30°	4573.4	4565.5	4435.4	4239.1	4012.5	3839.4	3677.8	3657.1	3735.6	4147.1	3286.4
32.5°	5063.4	5004.5	4845.3	4643.3	4382.1	4174.2	3982.8	3934.7	3944.7	4349.7	3372.2
35°	5681.4	5616.8	5392.5	5114.0	4821.7	4576.1	4364.8	4299.2	4274.4	4681.0	3517.0
37.5°	6080.5	6079.5	5938.8	5655.0	5341.5	5070.8	4840.8	4764.0	4714.0	5081.4	3741.3
40°	6091.2	6117.5	6136.1	6133.3	5910.0	5660.6	5456.6	5361.8	5245.7	5616.4	4031.1
42.5°	5764.3	5832.2	5995.4	6272.3	6404.6	6305.5	6133.3	6040.3	5867.5	6188.9	4384.4
45°	5322.5	5369.6	5655.0	6165.2	6672.7	6944.6	6813.5	6647.0	6419.3	6785.9	4701.2
47.5°	5124.6	5132.9	5317.4	5877.6	6692.9	7468.4	7548.1	7277.2	6920.6	7267.1	4949.0
50°	4532.9	4548.1	4802.7	5379.1	6456.3	7715.7	8286.0	8029.1	7467.3	7637.7	5039.3
52.5°	3416.6	3437.9	3760.8	4559.8	5805.8	7610.4	8814.2	8751.9	8066.2	7818.8	5044.3
55°	2015.8	2043.9	2352.3	3069.5	4566.7	6939.6	8853.4	9082.3	8538.8	7925.9	5036.4
57.5°	941.5	961.0	1137.8	1581.2	2840.1	5484.5	8262.4	8855.8	8799.5	7982.6	5092.0
60°	500.1	505.7	548.3	684.7	1283.5	3477.7	7108.9	7996.6	8561.8	8061.1	5159.9
62.5°	382.4	384.0	381.9	398.0	539.4	1543.6	5373.5	6574.1	7604.7	8002.2	5084.8
65°	331.4	334.2	318.4	314.5	345.9	550.7	3192.2	4686.1	5975.7	7207.7	4572.8
67.5°	297.2	298.2	279.3	262.9	268.7	297.8	1259.5	2565.4	3955.3	5283.2	3314.4
70°	273.7	272.5	251.7	226.0	218.6	203.6	400.4	940.3	1890.3	2679.1	1541.4
72.5°	242.3	242.8	232.8	199.1	181.6	142.4	185.6	274.3	564.0	730.1	361.1
75°	214.8	212.0	199.7	178.4	149.7	93.7	91.9	122.2	173.8	172.7	78.0
77.5°	155.3	152.5	156.5	146.3	115.0	60.5	46.0	58.8	70.6	68.5	21.9
80°	113.8	112.2	100.9	121.7	101.5	41.5	28.6	31.4	36.4	30.8	6.7
82.5°	78.0	77.3	71.2	67.4	57.8	25.2	18.0	19.7	23.5	17.3	3.4
85°	12.3	14.1	51.7	41.0	34.2	11.1	12.3	13.5	15.7	9.5	1.1
87.5°	0.0	0.0	24.2	21.3	6.7	4.5	7.2	7.8	7.8	5.0	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



REPORT NUMBER: P269059

CATALOG NUMBER: GLEON-AF-02-LED-E1-AFL-7027-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8	2674.8
2.5°	2684.9	2628.7	2525.0	2417.9	2318.6	2200.3	2119.0	2057.8	1987.2	1968.1	2009.7
5°	2703.3	2597.3	2374.1	2131.4	1903.1	1650.2	1456.8	1303.7	1165.2	1118.1	1160.7
7.5°	2732.5	2574.9	2211.0	1811.2	1414.2	1019.3	749.1	571.4	458.1	424.4	442.4
10°	2761.6	2542.4	2022.1	1432.1	889.3	496.3	323.0	258.0	233.7	228.8	231.7
12.5°	2785.7	2498.6	1791.5	1018.3	475.6	265.8	211.5	200.7	197.4	197.4	198.4
15°	2800.2	2432.5	1518.5	647.7	273.7	200.7	184.5	181.1	181.1	181.6	182.7
17.5°	2798.6	2348.3	1219.5	391.9	204.6	177.8	168.3	165.4	164.8	165.9	166.5
20°	2777.9	2238.4	919.7	258.5	178.4	162.1	152.5	147.5	147.0	148.0	149.2
22.5°	2738.7	2102.8	657.7	199.1	160.9	147.0	135.1	130.7	130.7	131.8	132.9
25°	2691.0	1936.7	449.7	168.8	145.3	130.7	119.5	115.5	116.6	119.5	120.1
27.5°	2631.6	1750.1	305.7	144.6	126.1	114.4	106.0	103.1	106.0	110.0	111.0
30°	2580.6	1555.4	218.1	125.0	107.1	98.8	93.7	93.7	97.6	104.8	106.4
32.5°	2541.2	1367.1	168.3	110.4	93.1	85.8	83.1	85.8	91.9	99.3	100.9
35°	2536.3	1211.8	142.4	98.8	83.1	75.6	74.6	79.6	85.8	91.4	92.5
37.5°	2574.9	1068.3	128.4	89.1	74.0	67.4	66.1	72.4	78.5	85.2	87.0
40°	2648.4	955.4	118.2	80.2	66.7	59.5	57.2	61.7	70.1	79.1	81.2
42.5°	2743.7	862.5	107.1	71.2	59.5	49.3	46.5	51.7	60.5	70.1	72.9
45°	2834.5	782.2	94.9	61.2	49.9	38.1	37.0	43.7	48.1	57.8	59.9
47.5°	2884.4	711.5	84.1	49.9	38.6	30.8	30.8	32.5	37.0	48.1	50.5
50°	2867.6	655.0	72.9	37.0	26.9	23.5	23.5	22.9	29.7	38.6	40.3
52.5°	2834.0	622.4	62.8	28.6	18.5	16.8	15.1	16.8	20.8	24.7	25.2
55°	2828.9	616.7	52.7	22.9	12.8	11.1	8.4	8.4	8.4	7.8	6.7
57.5°	2868.2	625.8	44.2	18.5	9.5	7.2	4.5	0.0	0.0	0.0	0.0
60°	2908.5	635.3	38.1	12.8	6.7	4.0	0.5	0.0	0.0	0.0	0.0
62.5°	2841.2	614.0	32.0	7.8	5.0	1.6	0.0	0.0	0.0	0.0	0.0
65°	2495.9	522.6	25.2	5.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1775.3	349.9	16.8	3.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	810.2	146.3	10.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	173.3	45.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.4	33.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.1	52.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.7	37.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	5.6	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)