

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: P190911

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190911
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-03-LED-E1-AFL-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 10025.9 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 96
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

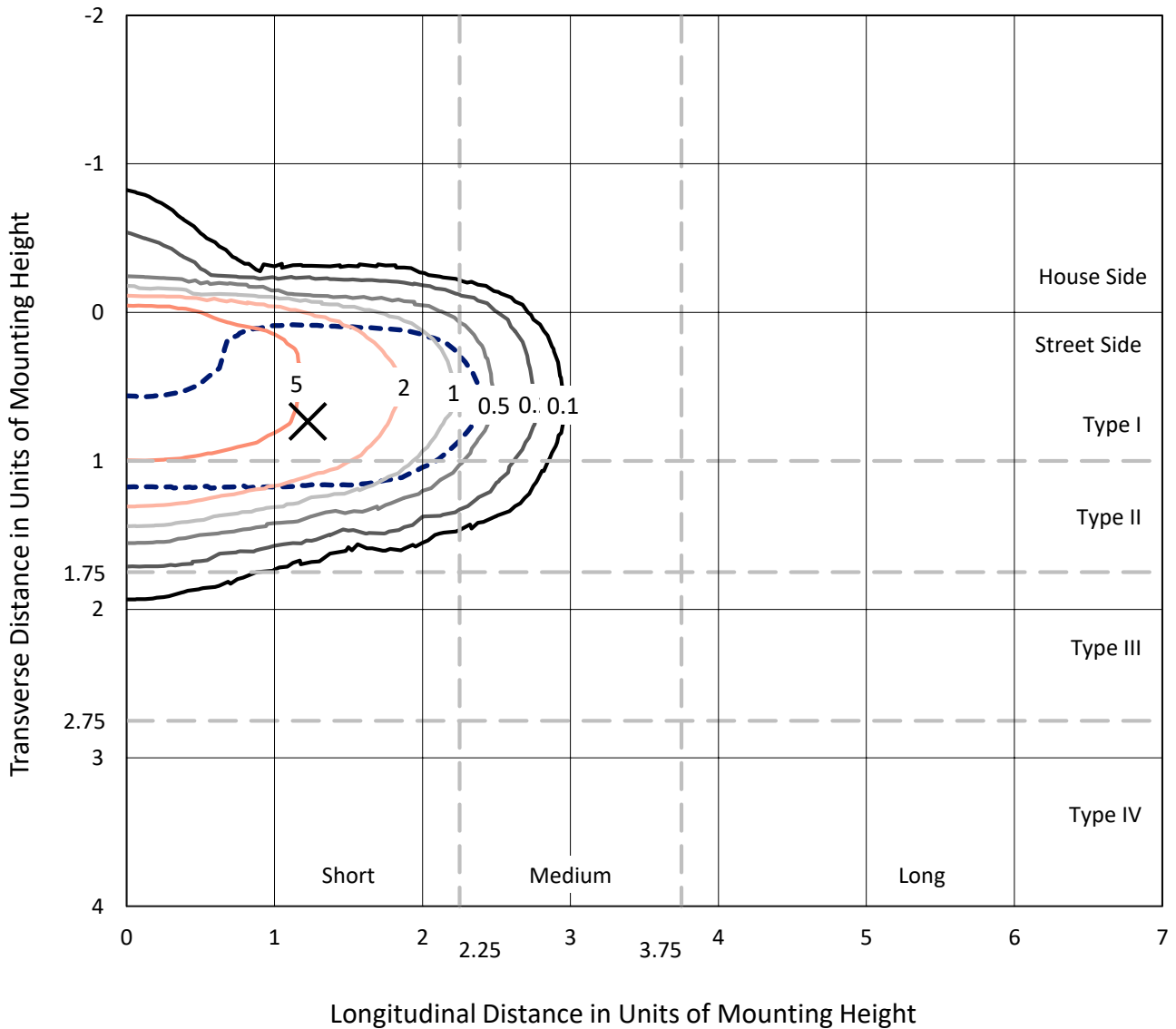


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

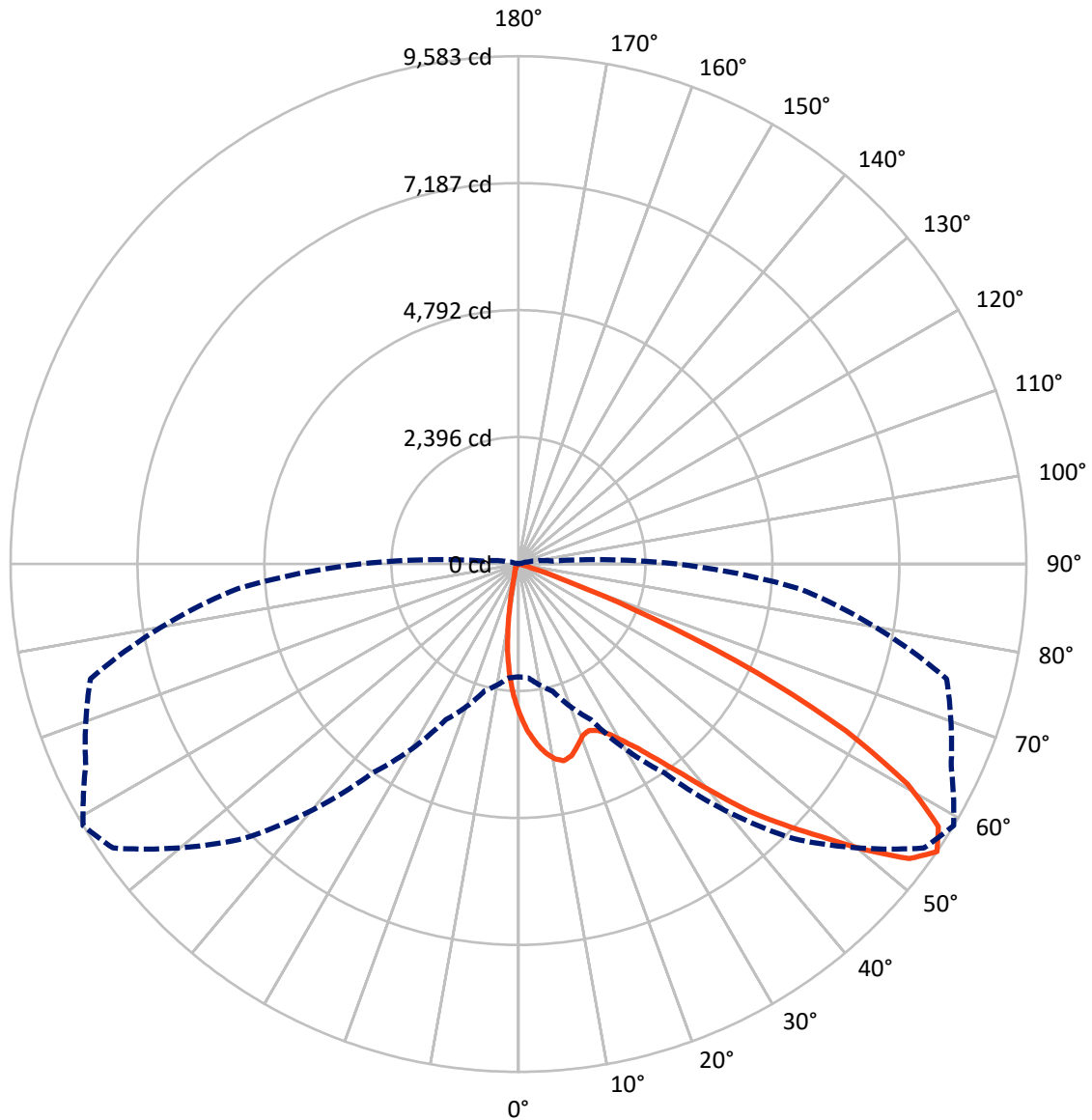


Based on 20 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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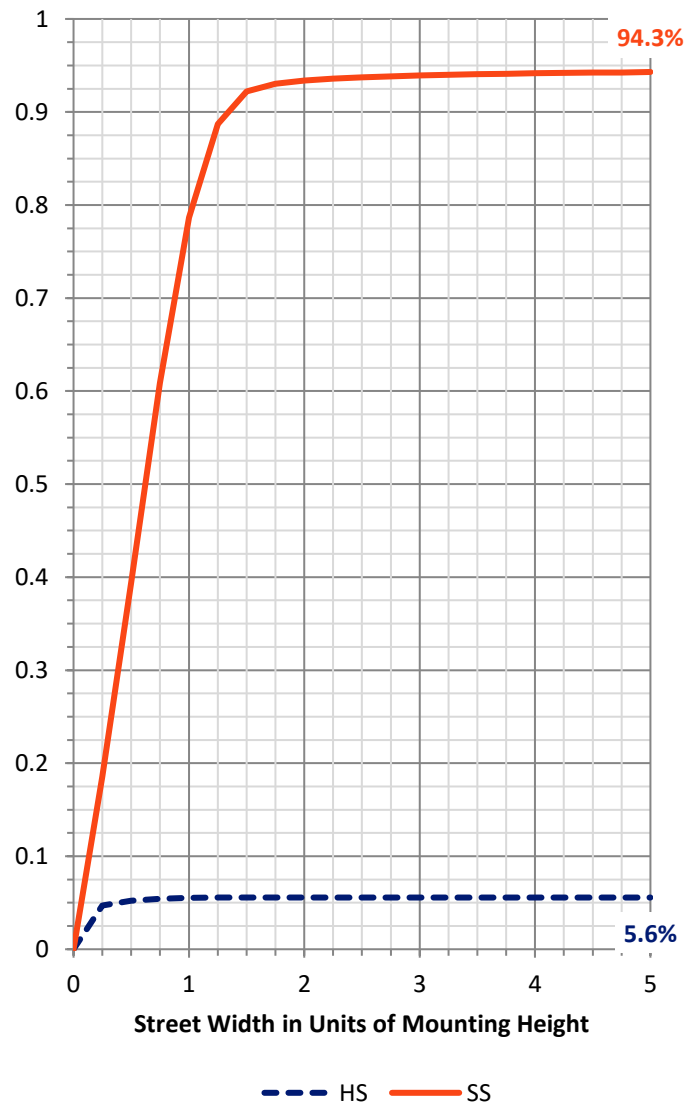
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	560.0	0.0	560.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9465.9	0.0	9465.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	10025.9	0.0	10025.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	2.4
10°-20°	566.0	5.6
20°-30°	963.1	9.6
30°-40°	1656.3	16.5
40°-50°	2557.2	25.5
50°-60°	2570.8	25.6
60°-70°	1318.3	13.1
70°-80°	142.9	1.4
80°-90°	14.9	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°	10025.9	100.0
0°-180°	10025.9	100.0

Coefficient of Utilization



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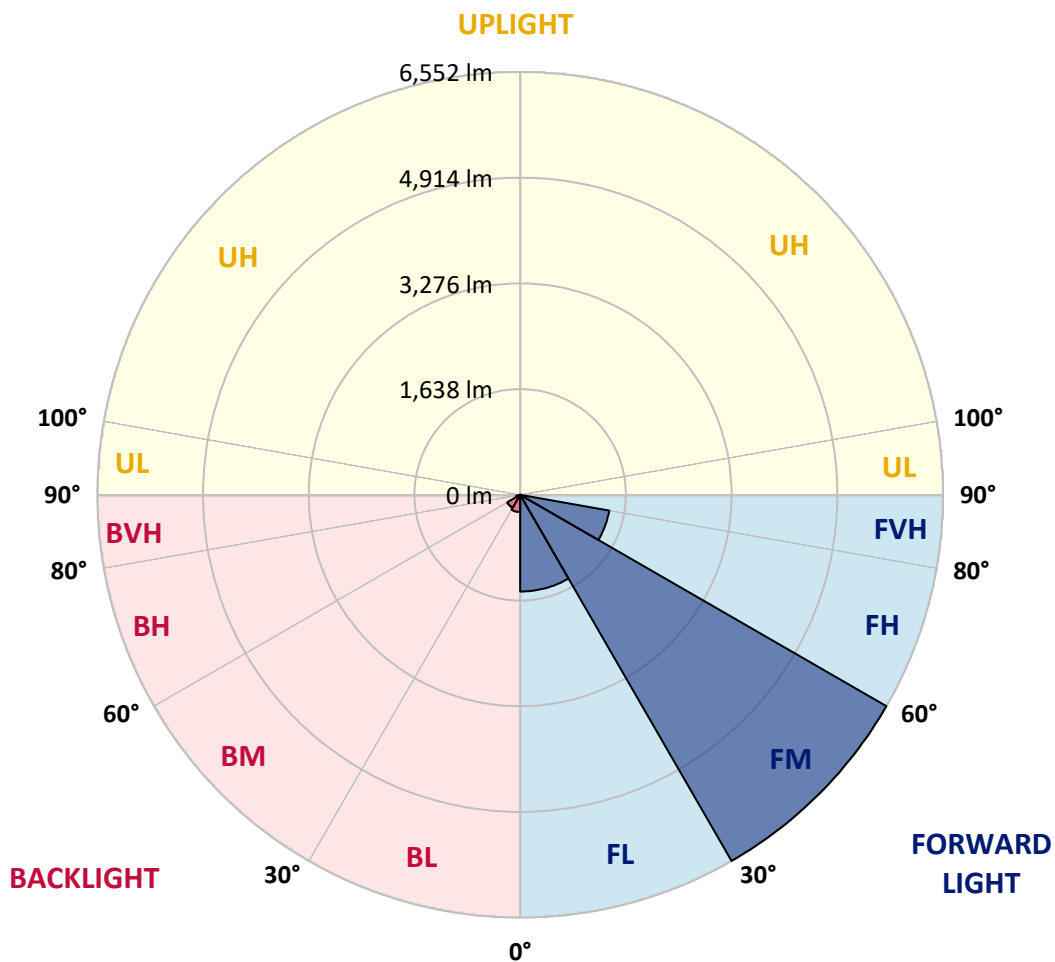
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1498.2	14.9			
FM	(30°-60°)	6551.9	65.3			
FH	(60°-80°)	1401.2	14.0			G1/1800
FVH	(80°-90°)	14.6	0.1			G1/100
BL	(0°-30°)	267.3	2.7	B1/500		
BM	(30°-60°)	232.4	2.3	B1/1000		
BH	(60°-80°)	60.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2
2.5°	3339.4	3303.9	3293.2	3286.1	3253.6	3212.8	3157.1	3131.2	3077.9	2992.0	2886.8
5°	3645.3	3638.7	3615.1	3602.1	3567.1	3509.2	3420.4	3377.9	3293.2	3148.8	2960.1
7.5°	3511.6	3552.4	3584.9	3639.4	3708.0	3705.6	3631.1	3586.7	3492.0	3301.5	3041.7
10°	2995.0	3028.1	3081.4	3205.1	3457.2	3679.6	3767.1	3735.2	3659.5	3441.7	3120.5
12.5°	2893.8	2890.3	2899.8	2935.9	3067.8	3384.9	3744.1	3808.5	3793.2	3570.1	3195.0
15°	2947.7	2943.5	2942.4	2954.8	2986.7	3120.5	3570.7	3756.0	3874.8	3689.1	3258.3
17.5°	3098.6	3080.8	3071.4	3061.3	3051.9	3085.0	3362.4	3608.6	3887.3	3793.2	3311.0
20°	3357.1	3327.6	3292.7	3235.8	3182.6	3166.0	3274.9	3457.2	3842.9	3872.5	3345.3
22.5°	3682.0	3644.1	3583.7	3480.2	3372.0	3309.2	3318.0	3409.2	3776.6	3958.8	3361.3
25°	4047.0	3998.5	3918.0	3774.3	3615.1	3503.9	3445.9	3477.8	3746.5	4060.0	3379.6
27.5°	4438.1	4384.3	4279.0	4083.1	3902.7	3752.4	3634.0	3629.9	3797.9	4192.6	3409.2
30°	4825.7	4817.4	4680.1	4473.1	4234.0	4051.2	3880.8	3858.9	3941.7	4376.0	3467.8
32.5°	5342.8	5280.7	5112.6	4899.6	4623.9	4404.4	4202.6	4151.7	4162.4	4589.6	3558.3
35°	5994.8	5926.8	5690.1	5396.1	5087.7	4828.6	4605.5	4536.4	4510.3	4939.2	3711.0
37.5°	6416.0	6414.9	6266.4	5967.0	5636.3	5350.4	5107.9	5026.8	4974.2	5361.7	3947.7
40°	6427.3	6455.1	6474.7	6471.7	6236.2	5972.9	5757.6	5657.5	5535.1	5926.2	4253.5
42.5°	6082.4	6154.0	6326.1	6618.4	6758.0	6653.4	6471.7	6373.5	6191.2	6530.3	4626.3
45°	5616.1	5665.8	5967.0	6505.5	7040.9	7327.8	7189.4	7013.7	6773.5	7160.3	4960.6
47.5°	5407.3	5416.1	5610.8	6201.8	7062.1	7880.4	7964.5	7678.7	7302.4	7668.0	5222.1
50°	4783.0	4799.1	5067.7	5675.8	6812.4	8141.4	8743.1	8472.1	7879.3	8059.1	5317.3
52.5°	3605.1	3627.5	3968.3	4811.4	6126.1	8030.2	9300.5	9234.8	8511.2	8250.2	5322.6
55°	2127.0	2156.7	2482.1	3238.8	4818.6	7322.5	9341.9	9583.3	9009.9	8363.2	5314.3
57.5°	993.4	1014.2	1200.5	1668.5	2996.8	5787.1	8718.3	9344.2	9285.1	8423.0	5372.9
60°	527.7	533.7	578.7	722.4	1354.3	3669.5	7501.2	8437.8	9034.2	8505.8	5444.6
62.5°	403.6	405.3	402.9	420.1	569.2	1628.8	5670.0	6936.7	8024.2	8443.7	5365.3
65°	349.6	352.6	336.0	331.9	365.1	581.0	3368.4	4944.6	6305.5	7605.3	4825.1
67.5°	313.5	314.8	294.6	277.5	283.5	314.1	1328.9	2706.9	4173.6	5574.7	3497.4
70°	288.8	287.6	265.7	238.4	230.8	214.8	422.5	992.3	1994.5	2827.0	1626.5
72.5°	255.6	256.1	245.5	210.0	191.7	150.3	195.8	289.3	595.3	770.4	381.0
75°	226.6	223.6	210.6	188.1	157.9	98.8	97.1	129.0	183.4	182.2	82.2
77.5°	163.9	160.9	165.1	154.5	121.3	63.9	48.5	62.1	74.6	72.2	23.1
80°	120.1	118.4	106.5	128.4	107.1	43.8	30.2	33.1	38.5	32.5	7.1
82.5°	82.2	81.6	75.2	71.0	61.0	26.6	18.9	20.7	24.9	18.3	3.6
85°	13.0	14.8	54.4	43.2	36.1	11.9	13.0	14.2	16.6	10.0	1.2
87.5°	0.0	0.0	25.5	22.5	7.1	4.7	7.7	8.3	8.3	5.3	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°	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2	2822.2
2.5°	2833.0	2773.7	2664.3	2551.2	2446.6	2321.7	2236.0	2171.4	2096.8	2076.8	2120.6
5°	2852.4	2740.6	2505.1	2249.0	2008.2	1741.3	1537.2	1375.7	1229.5	1179.8	1224.8
7.5°	2883.2	2717.0	2332.9	1911.1	1492.2	1075.6	790.4	602.9	483.3	447.8	466.9
10°	2914.0	2682.6	2133.6	1511.1	938.4	523.6	340.8	272.2	246.7	241.4	244.4
12.5°	2939.4	2636.5	1890.4	1074.5	501.8	280.5	223.1	211.9	208.3	208.3	209.5
15°	2954.8	2566.7	1602.2	683.3	288.8	211.9	194.7	191.1	191.1	191.7	192.9
17.5°	2953.1	2477.9	1286.9	413.6	215.9	187.6	177.5	174.5	173.9	175.1	175.7
20°	2931.2	2362.0	970.4	272.7	188.1	171.0	160.9	155.6	155.0	156.2	157.4
22.5°	2889.7	2218.8	694.1	210.0	169.8	155.0	142.6	137.9	137.9	139.0	140.2
25°	2839.4	2043.7	474.5	178.1	153.2	137.9	126.0	121.8	123.1	126.0	126.6
27.5°	2776.7	1846.6	322.4	152.6	133.1	120.7	111.8	108.8	111.8	116.0	117.1
30°	2722.9	1641.3	230.2	132.0	113.0	104.1	98.8	98.8	102.9	110.7	112.4
32.5°	2681.5	1442.5	177.5	116.5	98.2	90.5	87.6	90.5	97.1	104.8	106.5
35°	2676.1	1278.6	150.3	104.1	87.6	79.9	78.7	84.0	90.5	96.5	97.6
37.5°	2717.0	1127.1	135.5	94.1	78.1	71.0	69.9	76.3	82.9	89.9	91.8
40°	2794.5	1008.2	124.8	84.6	70.4	62.7	60.4	65.1	74.0	83.5	85.8
42.5°	2895.1	910.0	113.0	75.2	62.7	52.1	49.1	54.4	63.9	74.0	76.9
45°	2990.9	825.4	99.9	64.4	52.7	40.2	39.1	46.1	50.8	61.0	63.3
47.5°	3043.6	750.8	88.8	52.7	40.8	32.5	32.5	34.3	39.1	50.8	53.3
50°	3025.8	691.1	76.9	39.1	28.4	24.9	24.9	24.2	31.4	40.8	42.6
52.5°	2990.3	656.7	66.3	30.2	19.5	17.8	16.0	17.8	21.9	26.0	26.6
55°	2985.0	650.8	55.6	24.2	13.6	11.9	8.9	8.9	8.9	8.3	7.1
57.5°	3026.4	660.3	46.7	19.5	10.0	7.7	4.7	0.0	0.0	0.0	0.0
60°	3069.0	670.3	40.2	13.6	7.1	4.1	0.6	0.0	0.0	0.0	0.0
62.5°	2998.0	647.8	33.8	8.3	5.3	1.7	0.0	0.0	0.0	0.0	0.0
65°	2633.5	551.5	26.6	5.9	3.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1873.2	369.2	17.8	3.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	855.0	154.5	11.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	182.8	48.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	37.2	34.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.9	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.1	39.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	5.9	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)