

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: P190930

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190930
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 10198.8 lumens
Efficiency: N/A
Efficacy: 90.3 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): 113
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

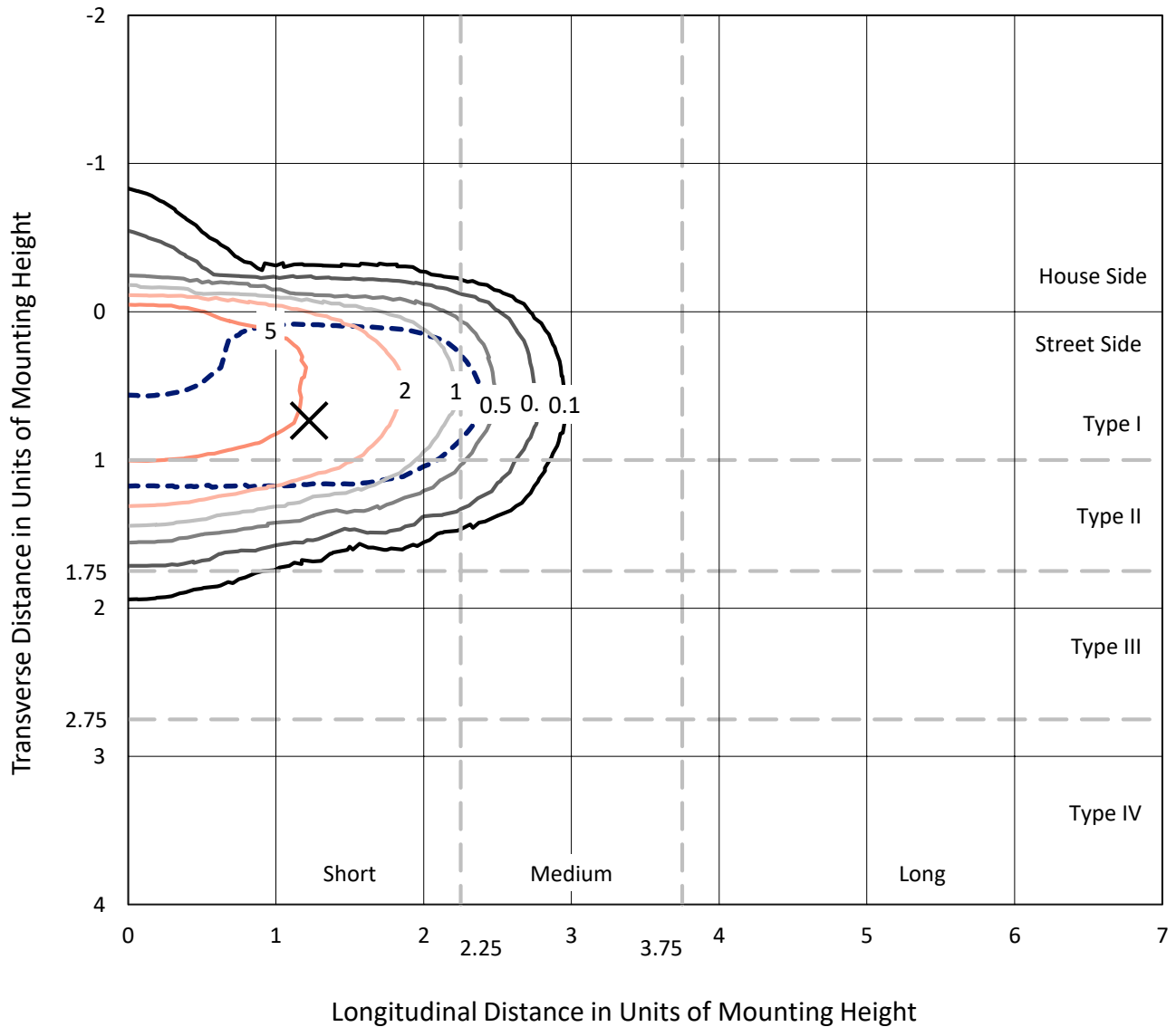


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

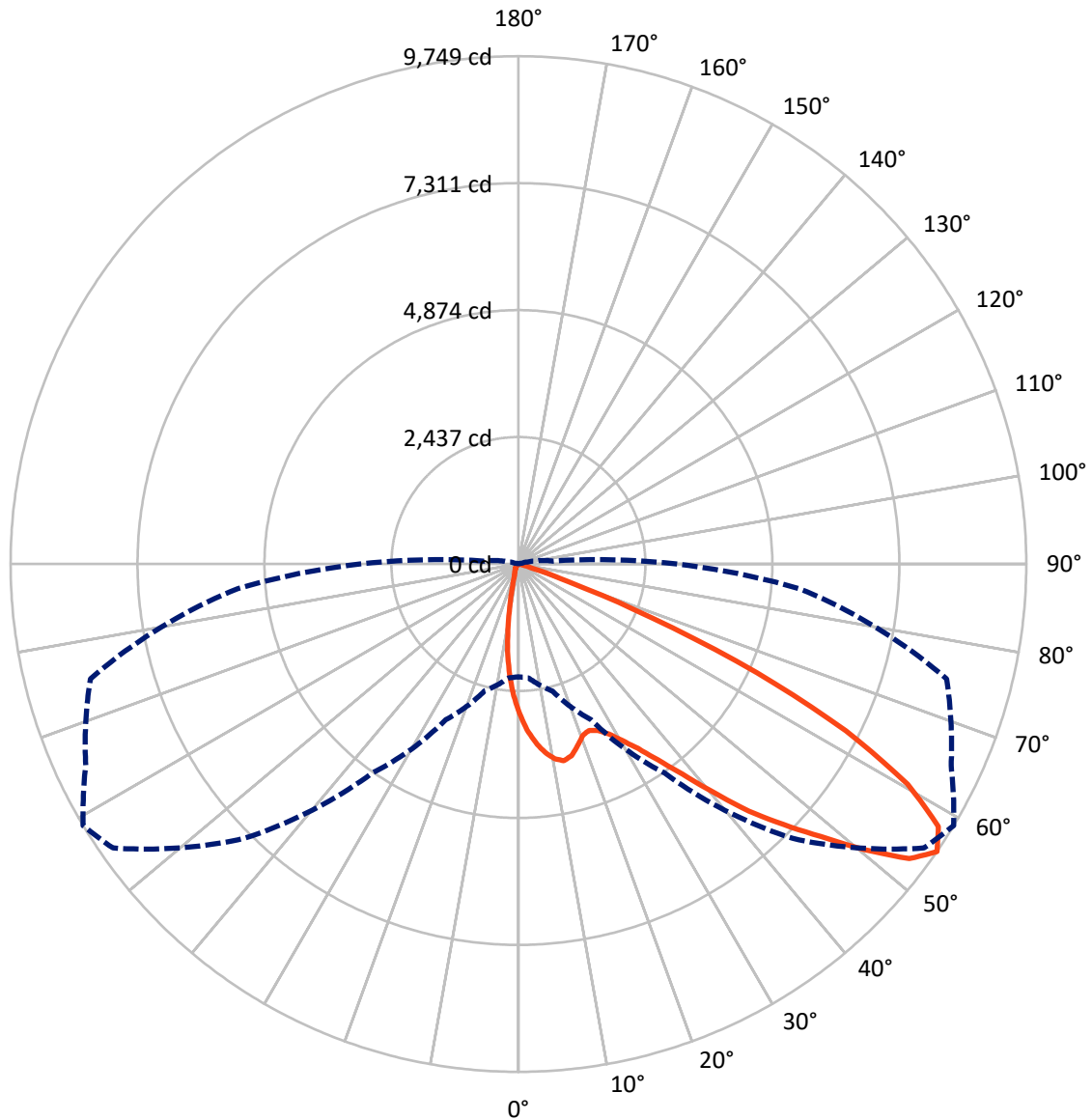


Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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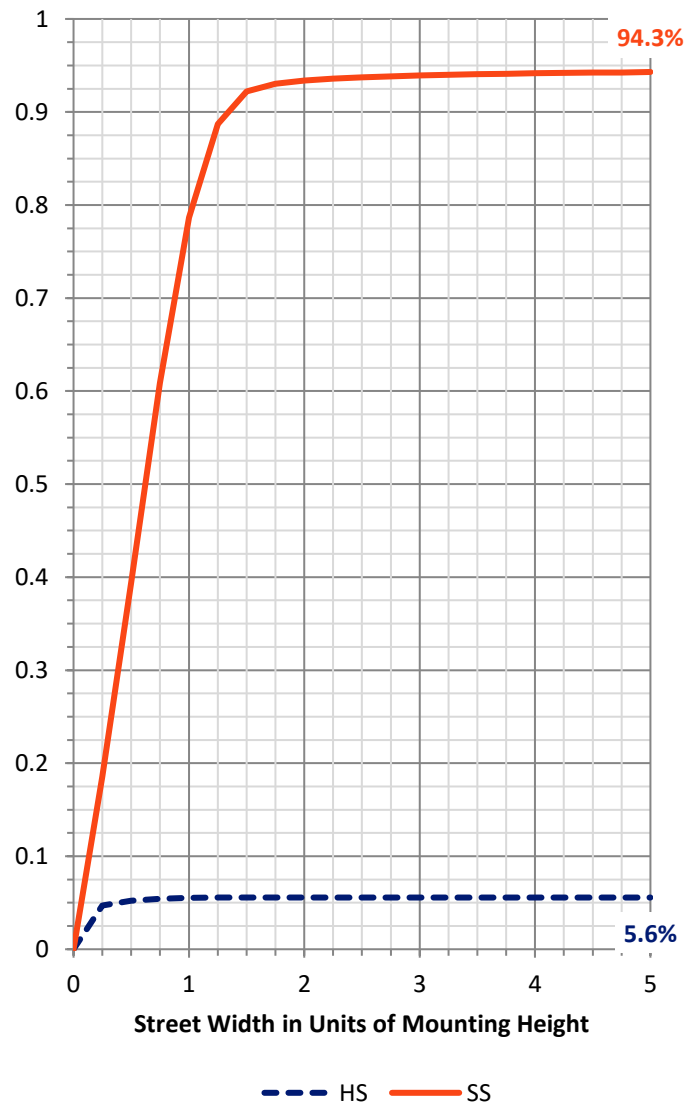
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	569.7	0.0	569.7
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9629.2	0.0	9629.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	10198.8	0.0	10198.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.5	2.4
10°-20°	575.8	5.6
20°-30°	979.7	9.6
30°-40°	1684.9	16.5
40°-50°	2601.3	25.5
50°-60°	2615.1	25.6
60°-70°	1341.1	13.1
70°-80°	145.3	1.4
80°-90°	15.2	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°	10198.8	100.0
0°-180°	10198.8	100.0



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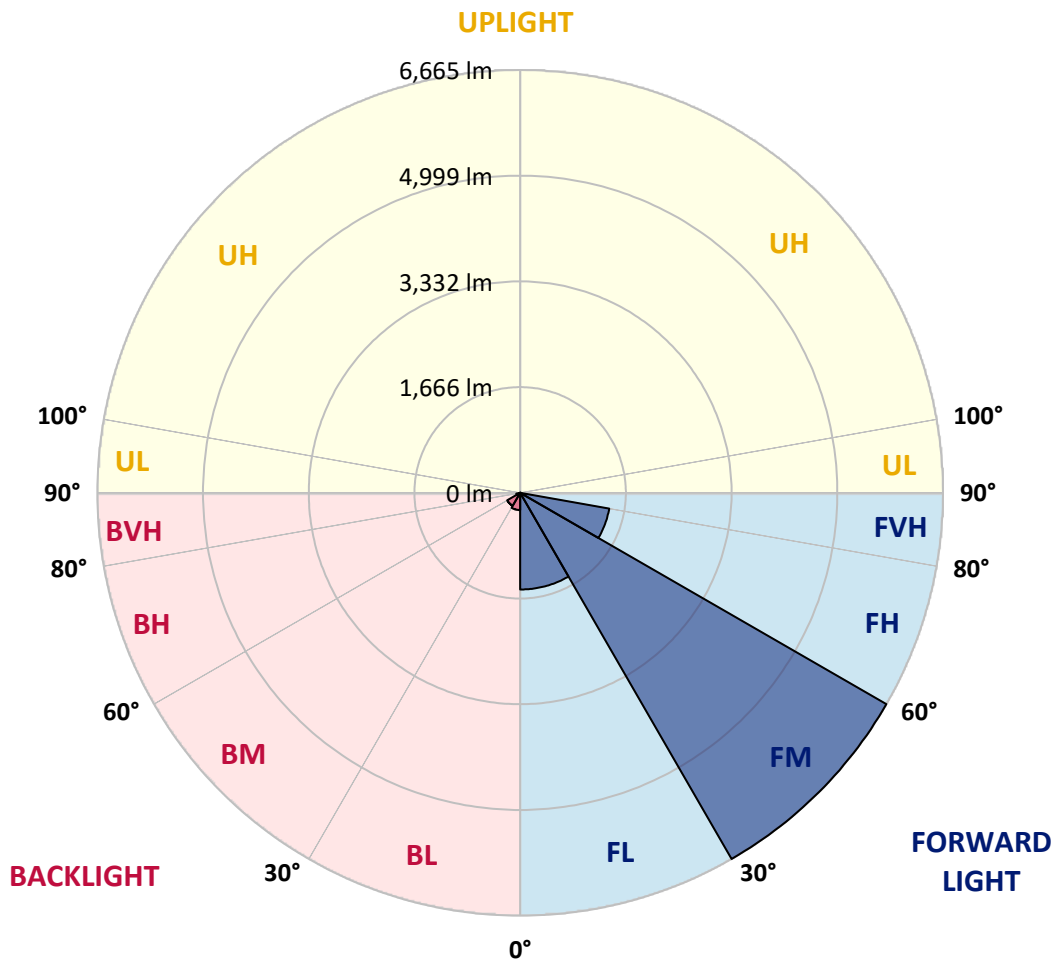
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.0	14.9			
FM (30°-60°)	6664.9	65.3			
FH (60°-80°)	1425.4	14.0			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	271.9	2.7	B1/500		
BM (30°-60°)	236.4	2.3	B1/1000		
BH (60°-80°)	61.0	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°	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9
2.5°	3397.0	3360.9	3350.1	3342.8	3309.7	3268.1	3211.6	3185.1	3130.9	3043.7	2936.6
5°	3708.1	3701.5	3677.4	3664.2	3628.7	3569.7	3479.5	3436.1	3350.1	3203.2	3011.2
7.5°	3572.1	3613.7	3646.7	3702.2	3771.9	3769.6	3693.7	3648.6	3552.3	3358.4	3094.2
10°	3046.7	3080.4	3134.5	3260.3	3516.7	3743.1	3832.1	3799.6	3722.6	3501.0	3174.3
12.5°	2943.7	2940.2	2949.8	2986.5	3120.7	3443.4	3808.7	3874.2	3858.6	3631.7	3250.1
15°	2998.6	2994.3	2993.2	3005.7	3038.3	3174.3	3632.3	3820.7	3941.6	3752.7	3314.5
17.5°	3152.0	3133.9	3124.3	3114.1	3104.5	3138.2	3420.4	3670.9	3954.3	3858.6	3368.1
20°	3415.0	3384.9	3349.4	3291.7	3237.4	3220.7	3331.3	3516.7	3909.2	3939.3	3402.9
22.5°	3745.4	3707.0	3645.5	3540.2	3430.1	3366.2	3375.3	3468.0	3841.8	4027.2	3419.2
25°	4116.8	4067.5	3985.6	3839.3	3677.4	3564.3	3505.3	3537.8	3811.1	4130.1	3437.9
27.5°	4514.7	4459.9	4352.8	4153.5	3970.0	3817.0	3696.7	3692.4	3863.4	4264.9	3468.0
30°	4908.8	4900.4	4760.8	4550.2	4307.0	4121.1	3947.7	3925.4	4009.7	4451.5	3527.5
32.5°	5434.9	5371.7	5200.8	4984.1	4703.6	4480.3	4275.1	4223.4	4234.2	4668.7	3619.6
35°	6098.2	6029.0	5788.2	5489.1	5175.5	4911.9	4685.0	4614.5	4588.0	5024.4	3774.9
37.5°	6526.7	6525.5	6374.4	6069.9	5733.4	5442.7	5196.0	5113.5	5059.9	5454.2	4015.7
40°	6538.1	6566.4	6586.3	6583.3	6343.7	6075.9	5856.8	5755.1	5630.5	6028.4	4326.9
42.5°	6187.2	6260.0	6435.2	6732.6	6874.5	6768.0	6583.3	6483.4	6298.0	6642.8	4706.1
45°	5713.0	5763.5	6069.9	6617.6	7162.3	7454.1	7313.4	7134.6	6890.2	7283.8	5046.1
47.5°	5500.5	5509.5	5707.6	6308.8	7184.0	8016.4	8101.8	7811.0	7428.3	7800.3	5312.1
50°	4865.6	4881.8	5155.1	5773.7	6930.0	8281.8	8893.8	8618.3	8015.1	8198.1	5409.1
52.5°	3667.2	3690.1	4036.8	4894.4	6231.8	8168.6	9460.9	9394.1	8657.9	8392.5	5414.5
55°	2163.7	2193.8	2524.8	3294.6	4901.7	7448.8	9503.0	9748.5	9165.3	8507.5	5406.0
57.5°	1010.6	1031.6	1221.2	1697.3	3048.5	5886.9	8868.6	9505.4	9445.2	8568.2	5465.6
60°	536.8	542.9	588.6	734.9	1377.7	3732.8	7630.5	8583.3	9190.0	8652.5	5538.5
62.5°	410.5	412.2	409.9	427.3	579.0	1657.0	5767.7	7056.3	8162.6	8589.3	5457.7
65°	355.7	358.7	341.9	337.7	371.3	591.1	3426.5	5029.8	6414.1	7736.5	4908.2
67.5°	319.0	320.2	299.7	282.2	288.3	319.6	1351.8	2753.6	4245.7	5670.8	3557.6
70°	293.7	292.5	270.3	242.5	234.8	218.5	429.7	1009.3	2028.9	2875.7	1654.5
72.5°	260.0	260.6	249.8	213.7	195.0	152.8	199.3	294.3	605.5	783.7	387.6
75°	230.5	227.5	214.3	191.4	160.7	100.6	98.7	131.2	186.6	185.4	83.7
77.5°	166.7	163.7	168.0	157.1	123.4	65.0	49.3	63.2	75.8	73.4	23.4
80°	122.1	120.4	108.3	130.6	108.9	44.5	30.7	33.7	39.1	33.1	7.3
82.5°	83.7	83.1	76.4	72.2	62.0	27.1	19.2	21.1	25.3	18.6	3.6
85°	13.2	15.0	55.3	44.0	36.7	12.1	13.2	14.4	16.9	10.2	1.2
87.5°	0.0	0.0	25.9	22.9	7.3	4.8	7.8	8.4	8.4	5.4	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°	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9	2870.9
2.5°	2881.8	2821.6	2710.2	2595.2	2488.7	2361.8	2274.4	2208.9	2133.1	2112.6	2157.1
5°	2901.6	2787.8	2548.4	2287.7	2042.7	1771.3	1563.7	1399.4	1250.7	1200.1	1245.9
7.5°	2932.9	2763.8	2373.1	1944.0	1518.0	1094.3	804.1	613.3	491.7	455.6	474.9
10°	2964.2	2728.9	2170.4	1537.2	954.6	532.7	346.7	276.8	250.9	245.6	248.6
12.5°	2990.1	2682.0	1922.9	1093.0	510.4	285.3	226.9	215.4	211.9	211.9	213.1
15°	3005.7	2610.9	1629.9	695.2	293.7	215.4	198.0	194.4	194.4	195.0	196.2
17.5°	3003.9	2520.7	1309.1	420.7	219.7	190.8	180.6	177.6	177.0	178.2	178.7
20°	2981.7	2402.7	987.0	277.4	191.4	173.9	163.7	158.3	157.7	158.9	160.1
22.5°	2939.6	2257.0	706.0	213.7	172.8	157.7	145.1	140.2	140.2	141.5	142.6
25°	2888.4	2078.8	482.7	181.2	155.9	140.2	128.2	124.0	125.2	128.2	128.8
27.5°	2824.6	1878.4	328.1	155.3	135.4	122.8	113.8	110.8	113.8	117.9	119.2
30°	2769.8	1669.6	234.2	134.2	115.0	106.0	100.6	100.6	104.8	112.5	114.4
32.5°	2727.7	1467.3	180.6	118.6	99.9	92.1	89.1	92.1	98.7	106.5	108.3
35°	2722.3	1300.7	152.8	106.0	89.1	81.2	80.1	85.4	92.1	98.1	99.3
37.5°	2763.8	1146.5	137.8	95.7	79.5	72.2	71.0	77.6	84.3	91.5	93.3
40°	2842.7	1025.6	126.9	86.0	71.6	63.8	61.4	66.2	75.2	84.9	87.3
42.5°	2945.0	925.7	115.0	76.4	63.8	53.0	49.9	55.3	65.0	75.2	78.3
45°	3042.5	839.6	101.7	65.6	53.6	40.9	39.7	47.0	51.8	62.0	64.4
47.5°	3096.1	763.7	90.3	53.6	41.5	33.1	33.1	34.9	39.7	51.8	54.2
50°	3078.0	703.0	78.3	39.7	28.8	25.3	25.3	24.7	31.9	41.5	43.4
52.5°	3041.8	668.1	67.4	30.7	19.8	18.1	16.3	18.1	22.3	26.5	27.1
55°	3036.4	662.1	56.6	24.7	13.8	12.1	9.0	9.0	9.0	8.4	7.3
57.5°	3078.6	671.7	47.6	19.8	10.2	7.8	4.8	0.0	0.0	0.0	0.0
60°	3121.9	681.9	40.9	13.8	7.3	4.2	0.6	0.0	0.0	0.0	0.0
62.5°	3049.7	659.1	34.3	8.4	5.4	1.8	0.0	0.0	0.0	0.0	0.0
65°	2678.9	561.0	27.1	6.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1905.6	375.5	18.1	3.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	869.7	157.1	11.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	186.0	48.8	7.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	38.0	35.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.1	56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.3	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	6.0	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)