

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: P300673

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300673  
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: GLNA-AF-03-LED-E1-AFL-7030-800-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10560.9 lumens  
Efficiency: N/A  
Efficacy: 85.2 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): 124  
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

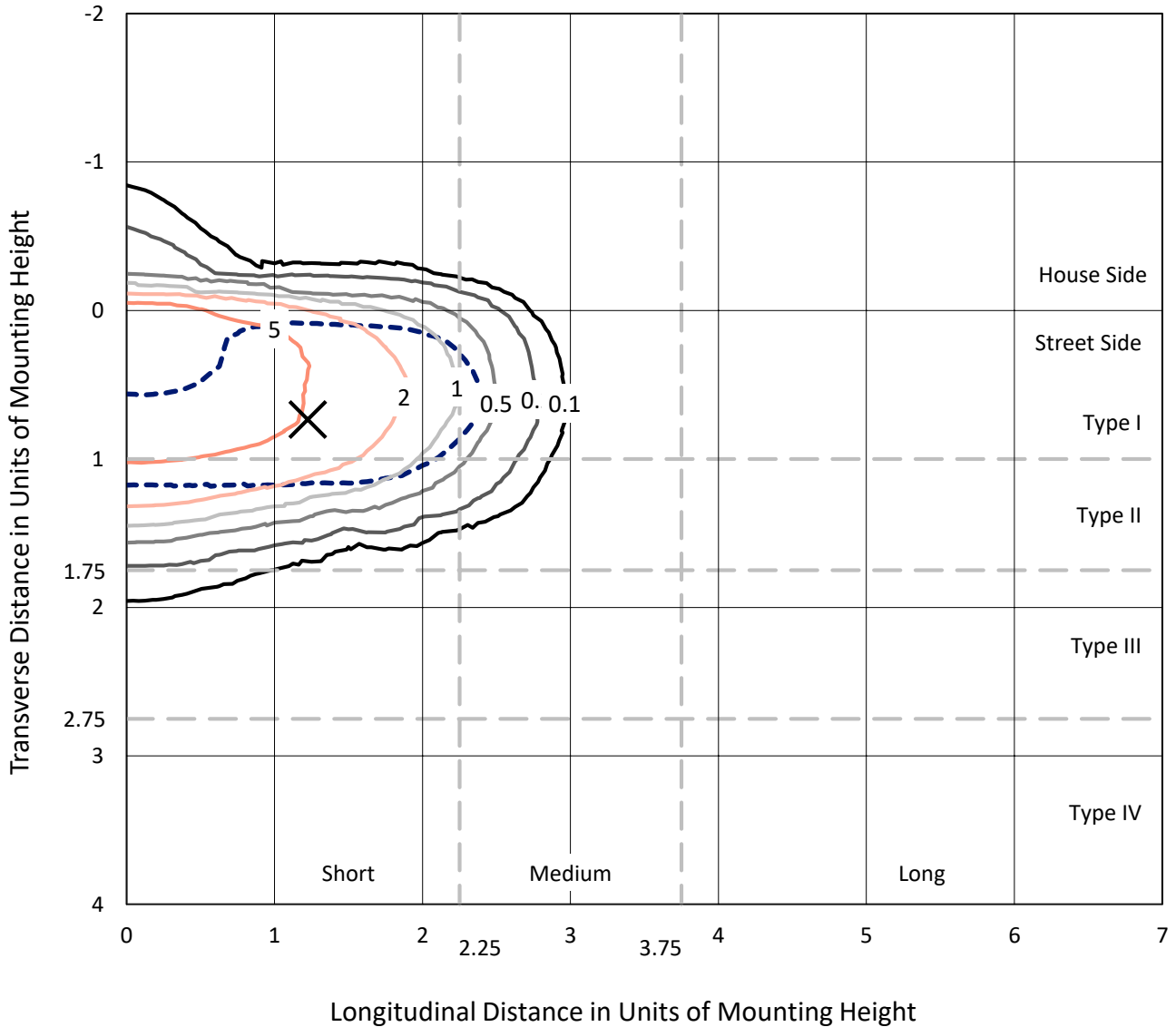


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

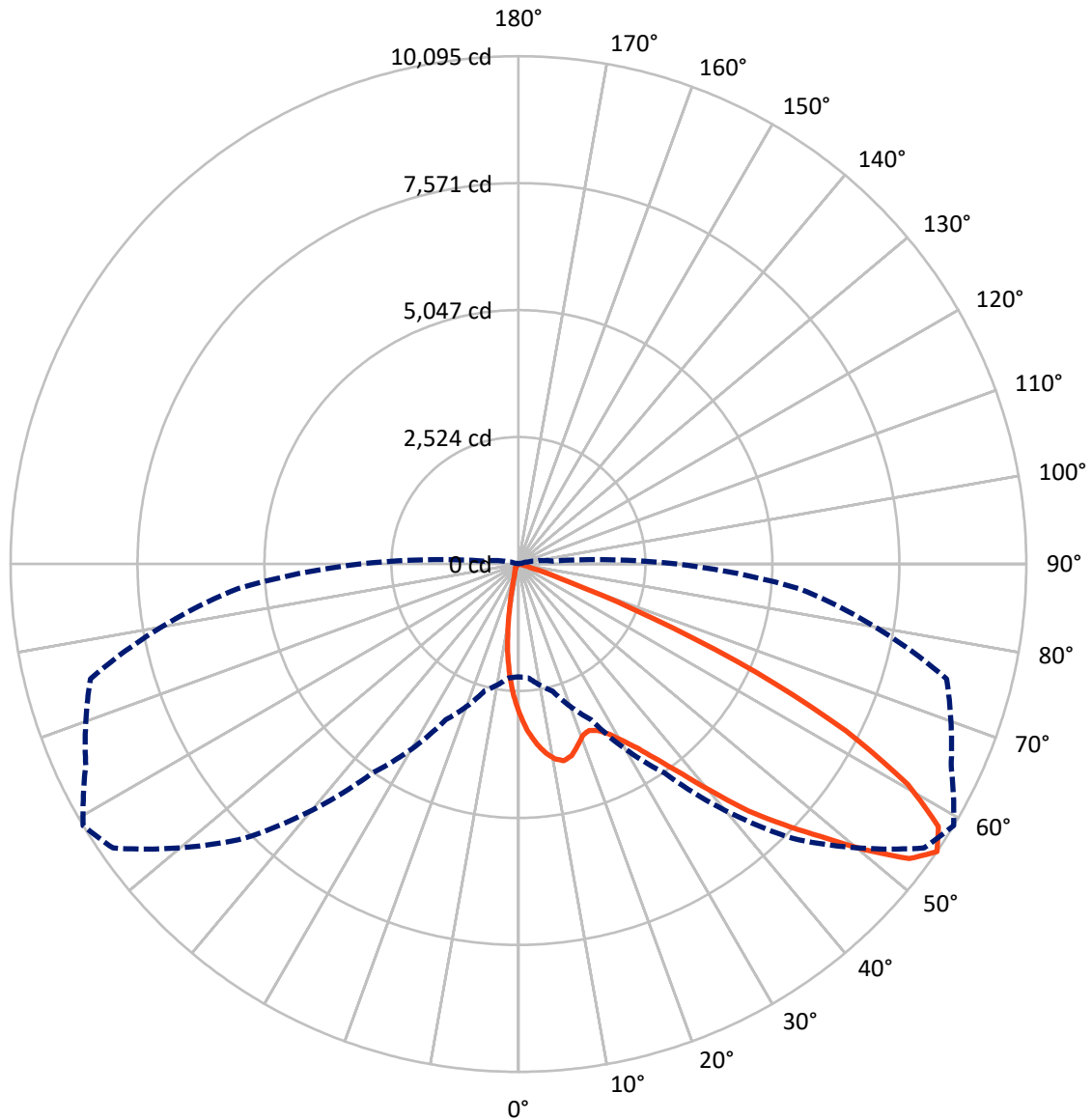


Based on 20 foot mounting height. Maximum calculated value = 9.2 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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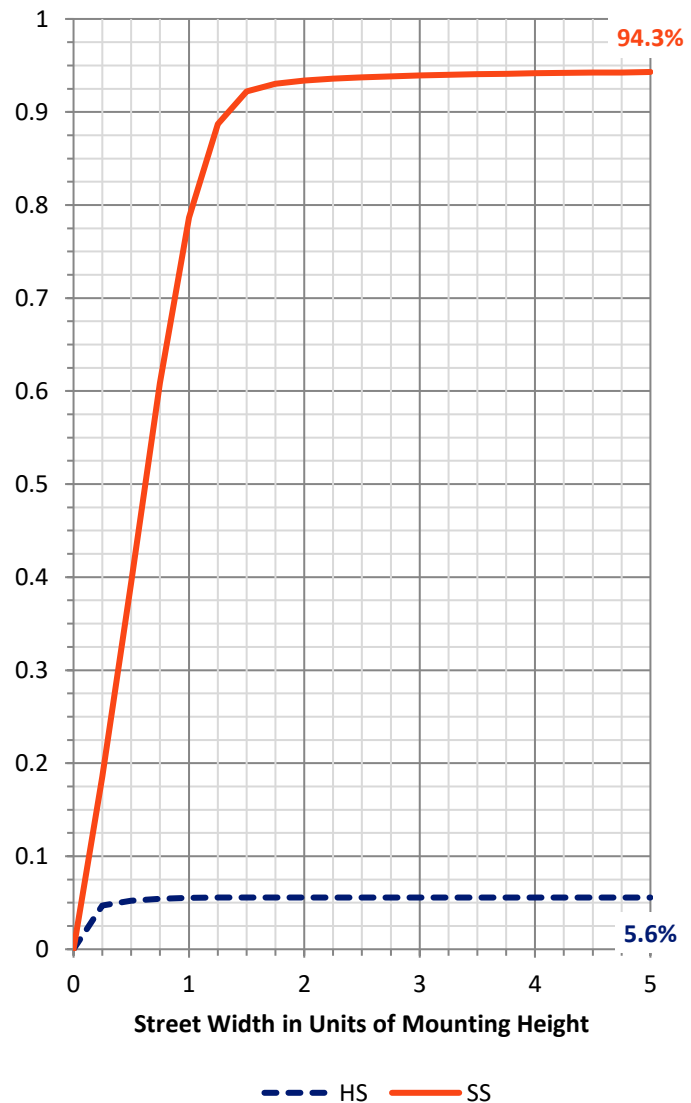
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	589.9	0.0	589.9
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	9971.0	0.0	9971.0
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	10560.9	0.0	10560.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.0	2.4
10°-20°	596.2	5.6
20°-30°	1014.5	9.6
30°-40°	1744.7	16.5
40°-50°	2693.6	25.5
50°-60°	2708.0	25.6
60°-70°	1388.7	13.1
70°-80°	150.5	1.4
80°-90°	15.7	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°	10560.9	100.0
0°-180°	10560.9	100.0



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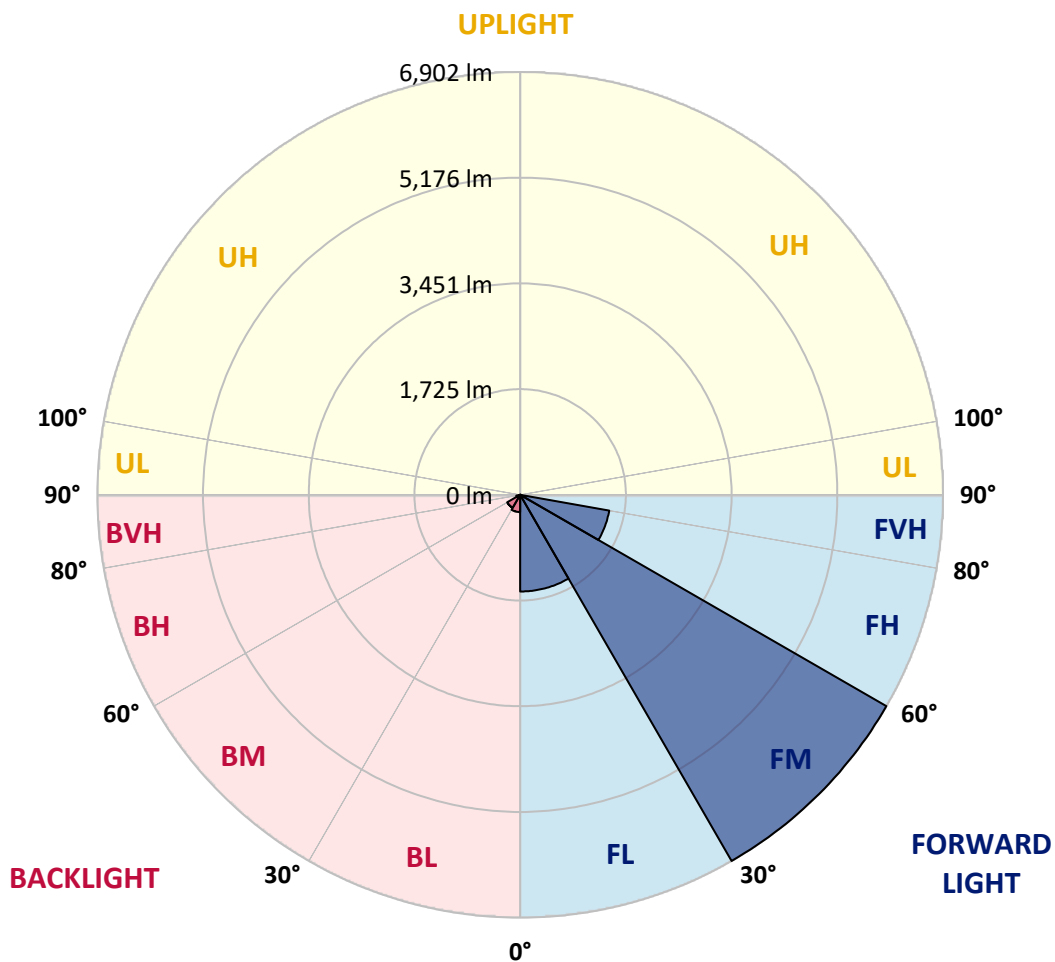
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1578.1	14.9			
FM	(30°-60°)	6901.5	65.3			
FH	(60°-80°)	1476.0	14.0			G1/1800
FVH	(80°-90°)	15.4	0.1			G1/100
BL	(0°-30°)	281.6	2.7	B1/500		
BM	(30°-60°)	244.8	2.3	B1/1000		
BH	(60°-80°)	63.2	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°	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9
2.5°	3517.6	3480.2	3469.0	3461.5	3427.2	3384.2	3325.6	3298.2	3242.1	3151.7	3040.8
5°	3839.8	3832.9	3808.0	3794.3	3757.5	3696.4	3603.0	3558.1	3469.0	3316.9	3118.1
7.5°	3698.9	3741.9	3776.2	3833.6	3905.8	3903.4	3824.8	3778.1	3678.4	3477.7	3204.1
10°	3154.8	3189.7	3245.8	3376.1	3641.6	3875.9	3968.2	3934.5	3854.7	3625.4	3287.0
12.5°	3048.3	3044.5	3054.5	3092.5	3231.5	3565.6	3943.9	4011.8	3995.6	3760.6	3365.5
15°	3105.0	3100.6	3099.4	3112.5	3146.1	3287.0	3761.3	3956.3	4081.6	3885.9	3432.2
17.5°	3263.9	3245.2	3235.2	3224.6	3214.7	3249.6	3541.9	3801.1	4094.7	3995.6	3487.7
20°	3536.3	3505.1	3468.3	3408.5	3352.4	3335.0	3449.6	3641.6	4047.9	4079.1	3523.8
22.5°	3878.4	3838.5	3775.0	3665.9	3551.8	3485.8	3495.1	3591.1	3978.1	4170.1	3540.6
25°	4263.0	4211.9	4127.1	3975.7	3808.0	3690.8	3629.8	3663.4	3946.4	4276.7	3560.0
27.5°	4674.9	4618.2	4507.3	4301.0	4110.9	3952.6	3827.9	3823.6	4000.6	4416.3	3591.1
30°	5083.2	5074.4	4929.8	4711.7	4459.9	4267.3	4087.8	4064.8	4152.0	4609.5	3652.8
32.5°	5627.9	5562.4	5385.4	5161.1	4870.6	4639.4	4426.9	4373.3	4384.5	4834.5	3748.2
35°	6314.7	6243.0	5993.7	5684.0	5359.2	5086.3	4851.3	4778.4	4751.0	5202.8	3909.0
37.5°	6758.4	6757.2	6600.7	6285.4	5937.0	5636.0	5380.4	5295.1	5239.6	5647.8	4158.3
40°	6770.3	6799.6	6820.1	6817.0	6569.0	6291.6	6064.8	5959.4	5830.4	6242.4	4480.5
42.5°	6406.9	6482.3	6663.7	6971.6	7118.7	7008.3	6817.0	6713.5	6521.6	6878.7	4873.1
45°	5915.8	5968.2	6285.4	6852.5	7416.6	7718.8	7573.0	7387.9	7134.9	7542.5	5225.2
47.5°	5695.8	5705.1	5910.2	6532.8	7439.0	8300.9	8389.4	8088.4	7692.0	8077.2	5500.7
50°	5038.3	5055.1	5338.1	5978.7	7176.0	8575.8	9209.6	8924.2	8299.7	8489.2	5601.1
52.5°	3797.4	3821.1	4180.1	5068.2	6453.0	8458.6	9796.7	9727.5	8965.3	8690.5	5606.7
55°	2240.6	2271.7	2614.5	3411.6	5075.7	7713.2	9840.3	10094.6	9490.7	8809.5	5597.9
57.5°	1046.4	1068.2	1264.6	1757.5	3156.7	6095.9	9183.5	9842.8	9780.5	8872.5	5659.6
60°	555.9	562.2	609.5	761.0	1426.6	3865.3	7901.4	8888.0	9516.3	8959.7	5735.1
62.5°	425.1	426.9	424.4	442.5	599.6	1715.8	5972.5	7306.9	8452.4	8894.3	5651.5
65°	368.3	371.5	354.0	349.6	384.5	612.0	3548.1	5208.4	6641.9	8011.1	5082.5
67.5°	330.3	331.6	310.4	292.3	298.5	330.9	1399.8	2851.3	4396.3	5872.2	3684.0
70°	304.1	302.9	279.8	251.2	243.1	226.2	445.0	1045.2	2100.9	2977.8	1713.3
72.5°	269.2	269.9	258.6	221.3	201.9	158.3	206.3	304.8	627.0	811.5	401.4
75°	238.7	235.6	221.9	198.2	166.4	104.1	102.2	135.9	193.2	192.0	86.6
77.5°	172.6	169.5	173.9	162.7	127.8	67.3	51.1	65.4	78.5	76.0	24.3
80°	126.5	124.6	112.2	135.2	112.8	46.1	31.8	34.9	40.5	34.3	7.5
82.5°	86.6	86.0	79.2	74.8	64.2	28.0	19.9	21.8	26.2	19.3	3.7
85°	13.7	15.6	57.3	45.5	38.0	12.5	13.7	15.0	17.5	10.6	1.2
87.5°	0.0	0.0	26.8	23.7	7.5	5.0	8.1	8.7	8.7	5.6	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°	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9	2972.9
2.5°	2984.1	2921.8	2806.5	2687.4	2577.1	2445.6	2355.2	2287.3	2208.8	2187.6	2233.7
5°	3004.6	2886.9	2638.8	2368.9	2115.3	1834.2	1619.2	1449.0	1295.1	1242.7	1290.1
7.5°	3037.1	2861.9	2457.4	2013.1	1571.8	1133.1	832.6	635.1	509.2	471.8	491.7
10°	3069.5	2825.8	2247.4	1591.8	988.5	551.6	359.0	286.7	259.9	254.3	257.4
12.5°	3096.3	2777.2	1991.3	1131.8	528.5	295.4	235.0	223.1	219.4	219.4	220.6
15°	3112.5	2703.6	1687.7	719.8	304.1	223.1	205.0	201.3	201.3	201.9	203.2
17.5°	3110.6	2610.1	1355.5	435.6	227.5	197.6	187.0	183.9	183.2	184.5	185.1
20°	3087.5	2488.0	1022.1	287.3	198.2	180.1	169.5	163.9	163.3	164.5	165.8
22.5°	3043.9	2337.2	731.1	221.3	178.9	163.3	150.2	145.2	145.2	146.5	147.7
25°	2990.9	2152.7	499.8	187.6	161.4	145.2	132.8	128.4	129.6	132.8	133.4
27.5°	2924.9	1945.1	339.7	160.8	140.2	127.1	117.8	114.7	117.8	122.2	123.4
30°	2868.2	1728.9	242.4	139.0	119.0	109.7	104.1	104.1	108.4	116.5	118.4
32.5°	2824.5	1519.5	187.0	122.8	103.5	95.4	92.2	95.4	102.2	110.3	112.2
35°	2818.9	1346.8	158.3	109.7	92.2	84.1	82.9	88.5	95.4	101.6	102.8
37.5°	2861.9	1187.3	142.7	99.1	82.3	74.8	73.5	80.4	87.3	94.7	96.6
40°	2943.6	1062.0	131.5	89.1	74.2	66.1	63.6	68.6	77.9	87.9	90.4
42.5°	3049.5	958.5	119.0	79.2	66.1	54.8	51.7	57.3	67.3	77.9	81.0
45°	3150.5	869.4	105.3	67.9	55.5	42.4	41.1	48.6	53.6	64.2	66.7
47.5°	3205.9	790.9	93.5	55.5	43.0	34.3	34.3	36.1	41.1	53.6	56.1
50°	3187.3	727.9	81.0	41.1	29.9	26.2	26.2	25.6	33.0	43.0	44.9
52.5°	3149.9	691.8	69.8	31.8	20.6	18.7	16.8	18.7	23.1	27.4	28.0
55°	3144.2	685.6	58.6	25.6	14.3	12.5	9.3	9.3	9.3	8.7	7.5
57.5°	3187.9	695.5	49.2	20.6	10.6	8.1	5.0	0.0	0.0	0.0	0.0
60°	3232.7	706.1	42.4	14.3	7.5	4.4	0.6	0.0	0.0	0.0	0.0
62.5°	3158.0	682.4	35.5	8.7	5.6	1.9	0.0	0.0	0.0	0.0	0.0
65°	2774.0	580.9	28.0	6.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1973.2	388.9	18.7	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	900.6	162.7	11.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	192.6	50.5	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.3	36.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.5	58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.5	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	6.2	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)