

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: P269137

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269137
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-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 10442 lumens
Efficiency: N/A
Efficacy: 84.2 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

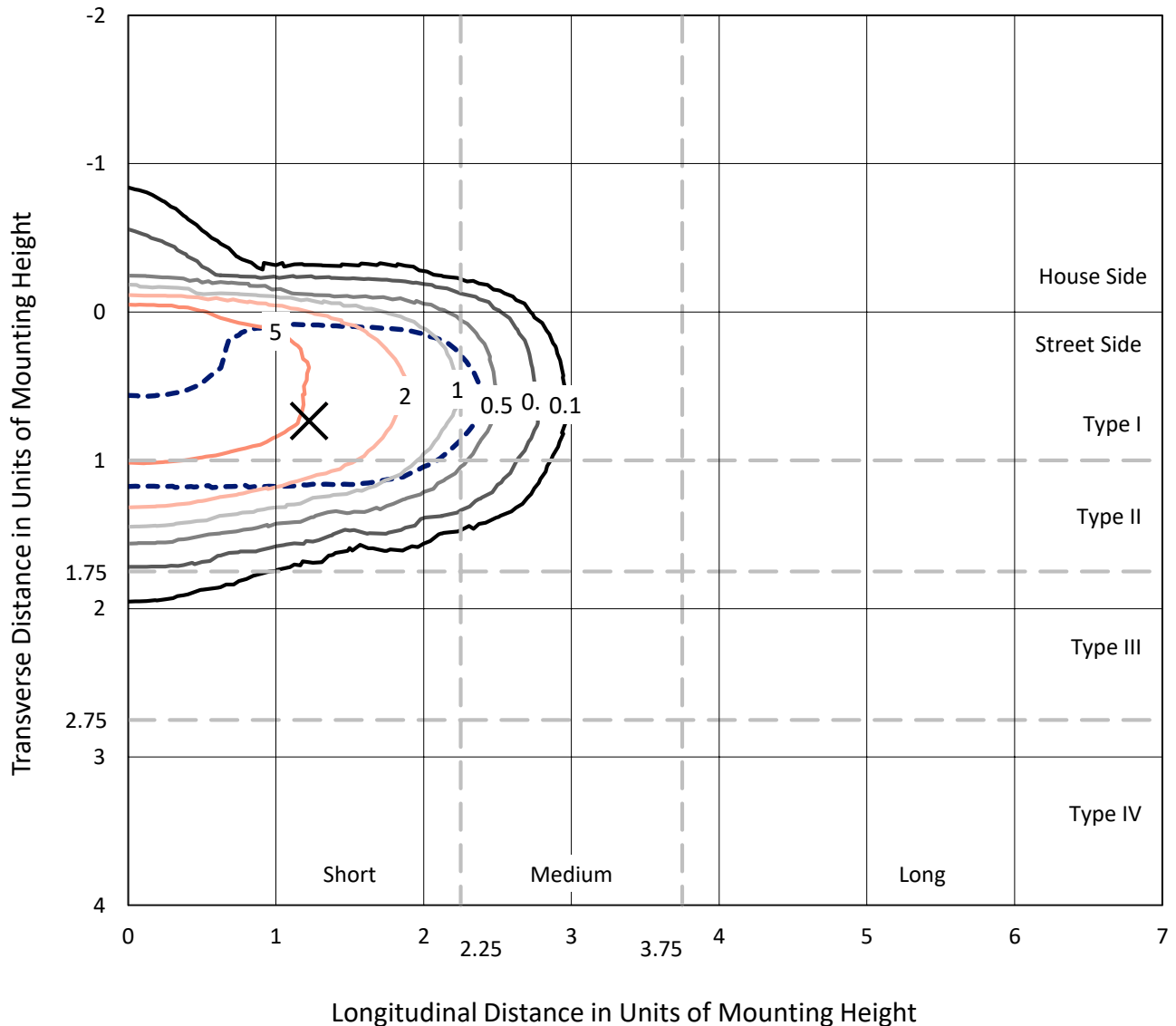


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

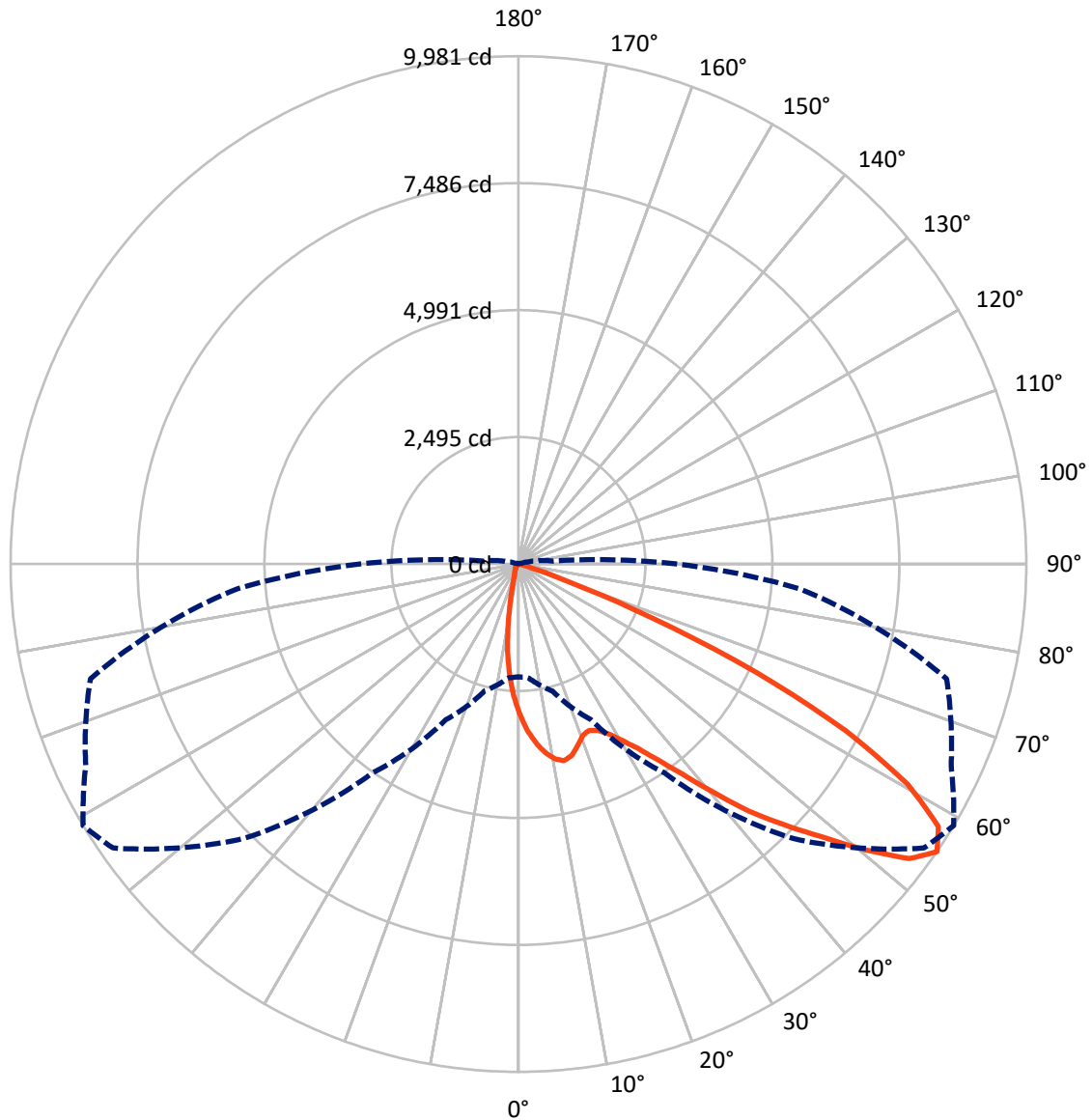


Based on 20 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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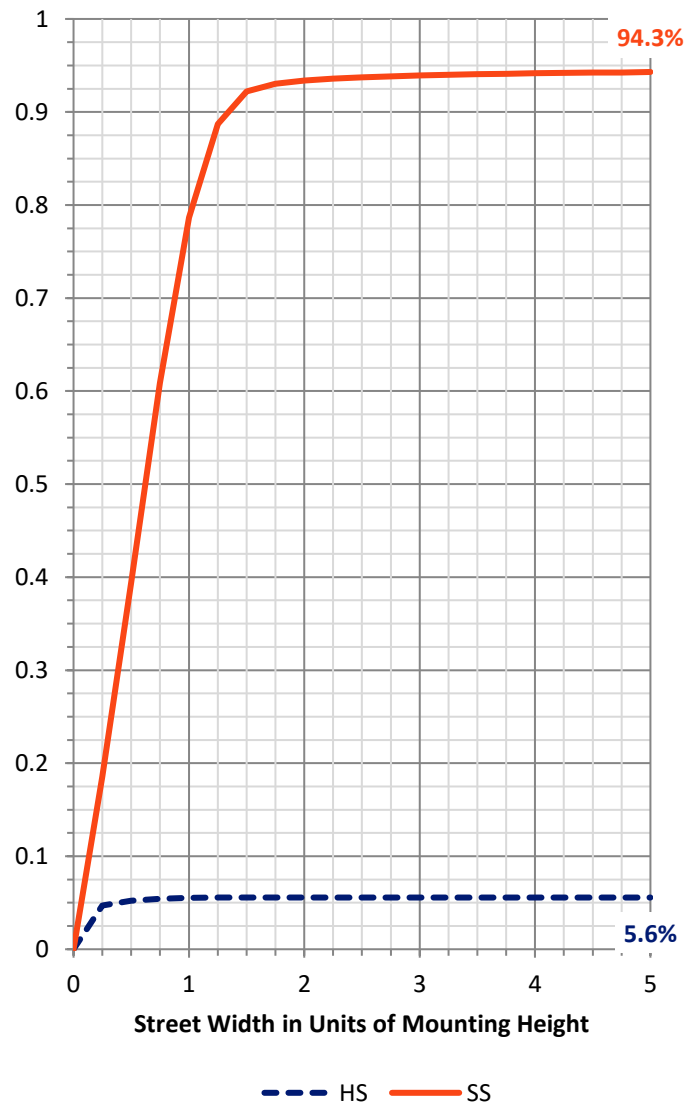
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	583.3	0.0	583.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9858.8	0.0	9858.8
	% Fixture	94.4	0.0	94.4
Total	Lumens	10442.0	0.0	10442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.2	2.4
10°-20°	589.5	5.6
20°-30°	1003.1	9.6
30°-40°	1725.1	16.5
40°-50°	2663.3	25.5
50°-60°	2677.5	25.6
60°-70°	1373.0	13.1
70°-80°	148.8	1.4
80°-90°	15.6	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°	10442.0	100.0
0°-180°	10442.0	100.0

Coefficient of Utilization



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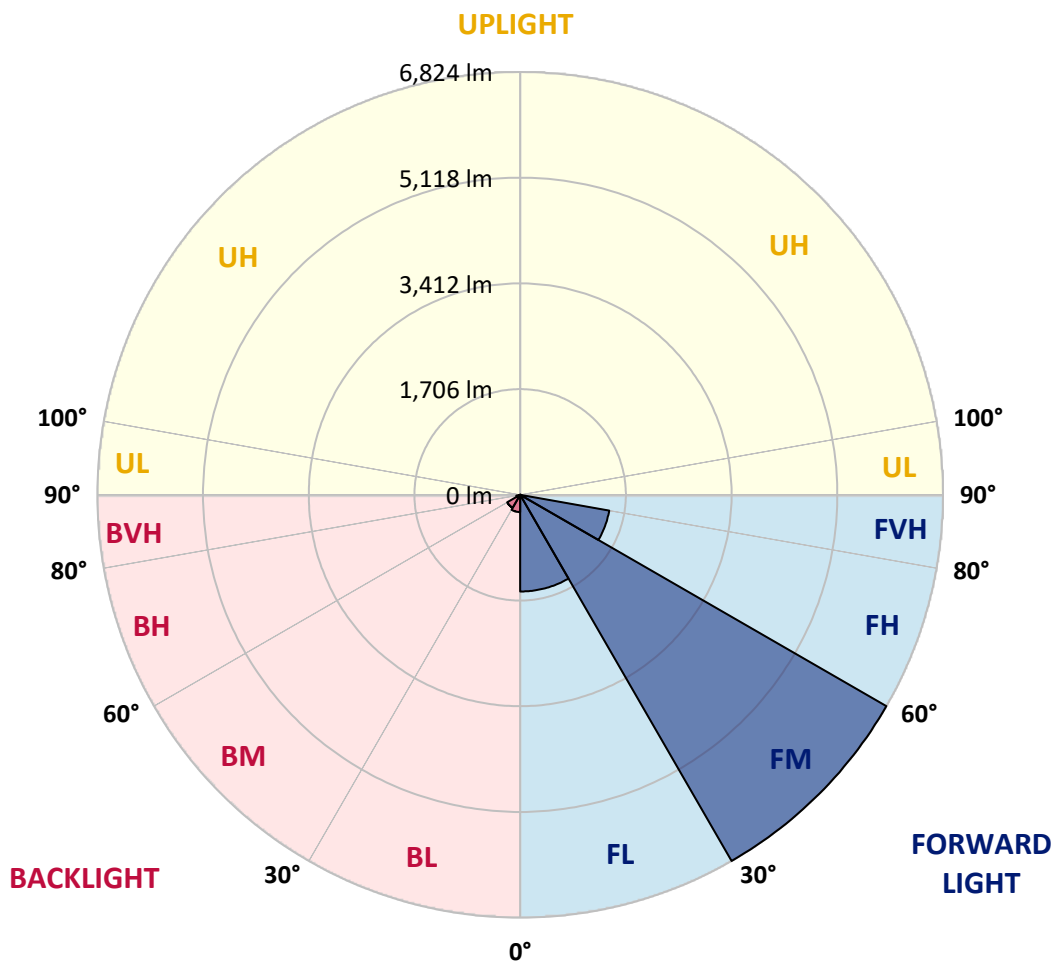
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1560.4	14.9			
FM (30°-60°)	6823.8	65.3			
FH (60°-80°)	1459.3	14.0			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	278.4	2.7	B1/500		
BM (30°-60°)	242.1	2.3	B1/1000		
BH (60°-80°)	62.5	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°	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3
2.5°	3478.0	3441.0	3429.9	3422.5	3388.5	3346.0	3288.2	3261.0	3205.6	3116.2	3006.5
5°	3796.5	3789.8	3765.2	3751.5	3715.2	3654.8	3562.4	3518.0	3429.9	3279.5	3083.0
7.5°	3657.3	3699.8	3733.6	3790.4	3861.9	3859.4	3781.8	3735.5	3637.0	3438.5	3168.1
10°	3119.4	3153.8	3209.3	3338.1	3600.5	3832.3	3923.4	3890.2	3811.2	3584.5	3250.0
12.5°	3014.0	3010.2	3020.1	3057.7	3195.1	3525.4	3899.5	3966.6	3950.6	3718.3	3327.6
15°	3070.0	3065.6	3064.5	3077.5	3110.7	3250.0	3719.0	3911.8	4035.6	3842.1	3393.5
17.5°	3227.2	3208.7	3198.9	3188.4	3178.5	3213.0	3502.0	3758.4	4048.7	3950.6	3448.4
20°	3496.5	3465.7	3429.3	3370.1	3314.7	3297.4	3410.8	3600.5	4002.4	4033.2	3484.2
22.5°	3834.8	3795.2	3732.5	3624.7	3511.8	3446.5	3455.8	3550.7	3933.4	4123.1	3500.8
25°	4214.9	4164.5	4080.6	3930.9	3765.2	3649.3	3588.9	3622.1	3901.9	4228.5	3519.9
27.5°	4622.3	4566.3	4456.5	4252.5	4064.7	3908.0	3784.7	3780.5	3955.5	4366.5	3550.7
30°	5025.8	5017.3	4874.4	4658.6	4409.7	4219.2	4041.8	4018.9	4105.3	4557.6	3611.6
32.5°	5564.6	5499.9	5324.8	5102.9	4815.8	4587.1	4377.0	4324.0	4335.1	4780.1	3706.0
35°	6243.6	6172.8	5926.2	5619.9	5298.9	5029.0	4796.7	4724.5	4697.4	5144.2	3865.0
37.5°	6682.3	6681.1	6526.4	6214.7	5870.2	5572.5	5319.9	5235.4	5180.5	5584.3	4111.5
40°	6694.0	6722.9	6743.3	6740.3	6494.9	6220.8	5996.5	5892.3	5764.8	6172.1	4430.0
42.5°	6334.8	6409.3	6588.7	6893.1	7038.5	6929.4	6740.3	6637.9	6448.2	6801.2	4818.2
45°	5849.1	5901.0	6214.7	6775.3	7333.0	7631.9	7487.7	7304.7	7054.5	7457.5	5166.4
47.5°	5631.7	5640.8	5843.7	6459.3	7355.2	8207.5	8294.9	7997.3	7605.4	7986.2	5438.8
50°	4981.6	4998.2	5277.9	5911.4	7095.3	8479.2	9105.8	8823.7	8206.2	8393.6	5538.1
52.5°	3754.6	3778.0	4133.0	5011.1	6380.3	8363.4	9686.5	9618.1	8864.4	8592.6	5543.5
55°	2215.3	2246.1	2585.1	3373.1	5018.6	7626.4	9729.5	9981.0	9383.9	8710.2	5534.8
57.5°	1034.7	1056.1	1250.4	1737.7	3121.3	6027.3	9080.1	9732.0	9670.3	8772.6	5595.9
60°	549.7	555.8	602.7	752.4	1410.5	3821.7	7812.5	8787.9	9409.0	8858.8	5670.6
62.5°	420.2	422.2	419.7	437.6	592.8	1696.4	5905.3	7224.6	8357.2	8794.0	5587.8
65°	364.3	367.2	350.0	345.7	380.3	605.1	3508.2	5149.8	6567.1	7921.0	5025.3
67.5°	326.7	327.8	307.0	289.1	295.2	327.3	1384.0	2819.2	4346.8	5806.0	3642.4
70°	300.8	299.4	276.7	248.3	240.3	223.7	440.0	1033.4	2077.3	2944.4	1694.1
72.5°	266.2	266.8	255.7	218.7	199.7	156.6	203.9	301.3	619.9	802.4	396.8
75°	236.1	232.9	219.4	196.0	164.5	102.9	101.1	134.3	191.0	189.8	85.7
77.5°	170.7	167.7	171.9	160.8	126.3	66.6	50.6	64.7	77.7	75.2	24.1
80°	125.1	123.2	110.9	133.7	111.5	45.6	31.4	34.6	40.1	33.9	7.4
82.5°	85.7	85.0	78.2	73.9	63.5	27.8	19.8	21.6	26.0	19.1	3.8
85°	13.6	15.5	56.8	44.9	37.5	12.3	13.6	14.8	17.2	10.5	1.3
87.5°	0.0	0.0	26.5	23.4	7.4	4.9	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°	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3	2939.3
2.5°	2950.5	2888.9	2774.9	2657.1	2548.1	2418.1	2328.6	2261.6	2183.9	2162.9	2208.6
5°	2970.9	2854.4	2609.0	2342.3	2091.4	1813.6	1601.0	1432.6	1280.5	1228.7	1275.6
7.5°	3002.9	2829.8	2429.7	1990.5	1554.1	1120.2	823.2	627.9	503.5	466.5	486.3
10°	3035.0	2794.0	2222.0	1573.8	977.4	545.4	354.9	283.4	256.9	251.4	254.5
12.5°	3061.5	2745.8	1968.8	1119.1	522.5	292.0	232.3	220.7	216.9	216.9	218.2
15°	3077.5	2673.1	1668.7	711.7	300.8	220.7	202.7	199.1	199.1	199.7	201.0
17.5°	3075.5	2580.7	1340.4	430.7	224.9	195.3	185.0	181.7	181.2	182.4	183.1
20°	3052.8	2460.0	1010.7	284.0	196.0	178.0	167.7	162.1	161.4	162.8	163.9
22.5°	3009.6	2310.8	722.9	218.7	176.8	161.4	148.5	143.5	143.5	144.7	146.1
25°	2957.2	2128.4	494.2	185.5	159.5	143.5	131.2	126.9	128.2	131.2	132.0
27.5°	2892.0	1923.2	335.8	159.0	138.7	125.8	116.5	113.4	116.5	120.8	122.0
30°	2835.9	1709.5	239.7	137.4	117.7	108.4	102.9	102.9	107.2	115.3	117.0
32.5°	2792.7	1502.3	185.0	121.5	102.2	94.3	91.2	94.3	101.1	109.1	110.9
35°	2787.3	1331.6	156.6	108.4	91.2	83.3	81.9	87.6	94.3	100.4	101.7
37.5°	2829.8	1173.9	141.2	97.9	81.3	73.9	72.8	79.5	86.2	93.7	95.5
40°	2910.4	1050.1	130.1	88.2	73.3	65.3	62.8	67.8	77.1	86.9	89.3
42.5°	3015.3	947.7	117.7	78.2	65.3	54.3	51.2	56.8	66.6	77.1	80.0
45°	3115.1	859.6	104.2	67.2	54.8	42.0	40.7	48.1	53.0	63.5	65.9
47.5°	3169.8	782.0	92.4	54.8	42.5	33.9	33.9	35.8	40.7	53.0	55.4
50°	3151.3	719.7	80.0	40.7	29.6	26.0	26.0	25.2	32.7	42.5	44.3
52.5°	3114.3	684.0	69.0	31.4	20.3	18.4	16.7	18.4	22.7	27.0	27.8
55°	3108.9	677.9	57.9	25.2	14.2	12.3	9.3	9.3	9.3	8.7	7.4
57.5°	3152.0	687.7	48.7	20.3	10.5	8.1	4.9	0.0	0.0	0.0	0.0
60°	3196.3	698.3	42.0	14.2	7.4	4.3	0.5	0.0	0.0	0.0	0.0
62.5°	3122.4	674.7	35.2	8.7	5.6	1.8	0.0	0.0	0.0	0.0	0.0
65°	2742.9	574.3	27.8	6.2	3.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1950.9	384.6	18.4	3.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	890.4	160.8	11.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	190.4	49.9	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	38.8	36.3	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.3	57.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.4	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	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)