

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: LUMARK

Report Number: P285816

Luminaire Tested: **PRV-XL-C100-D-UNV-T3-BZ-7050-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C100-D-UNV-T3-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28751 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

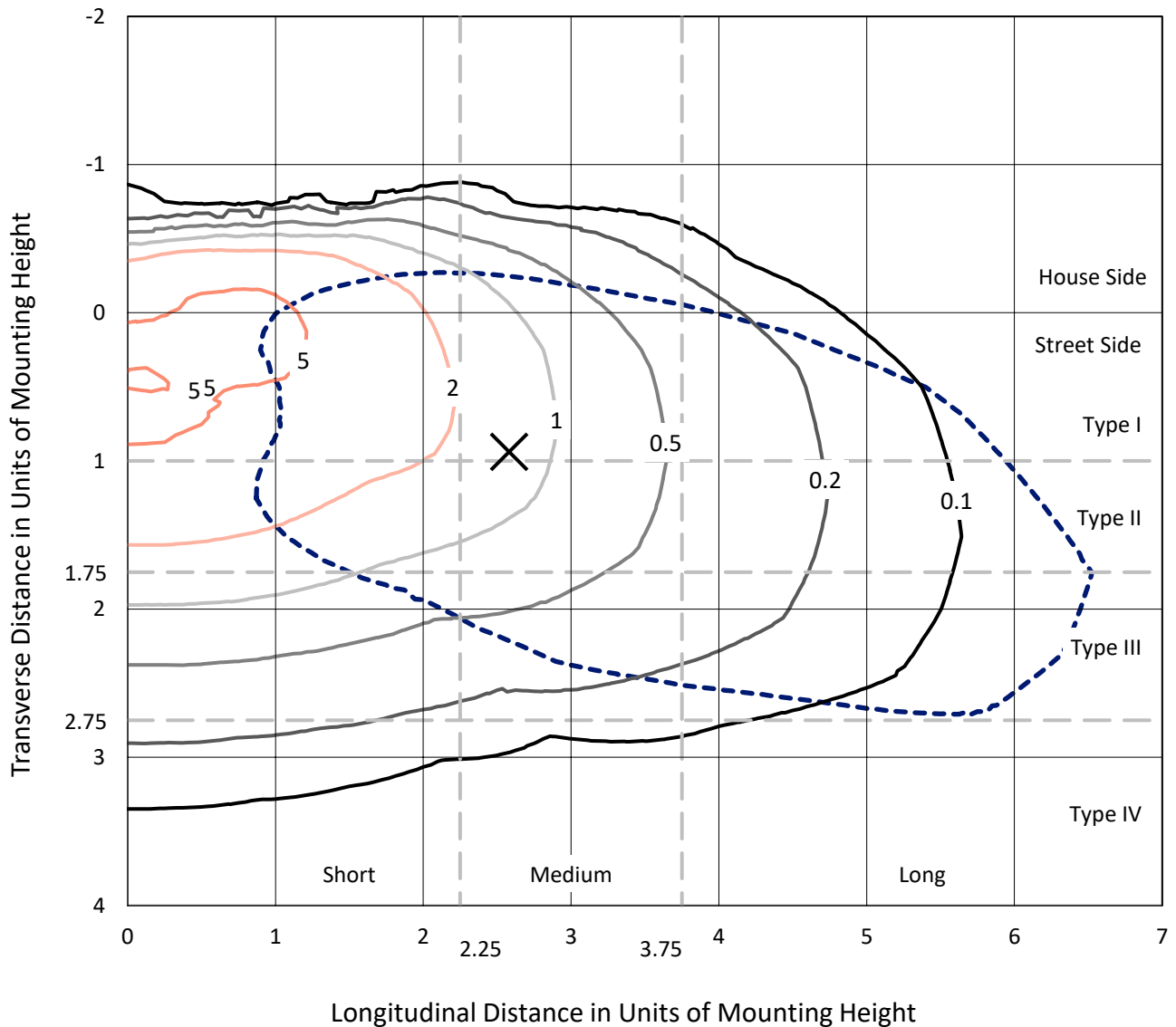
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

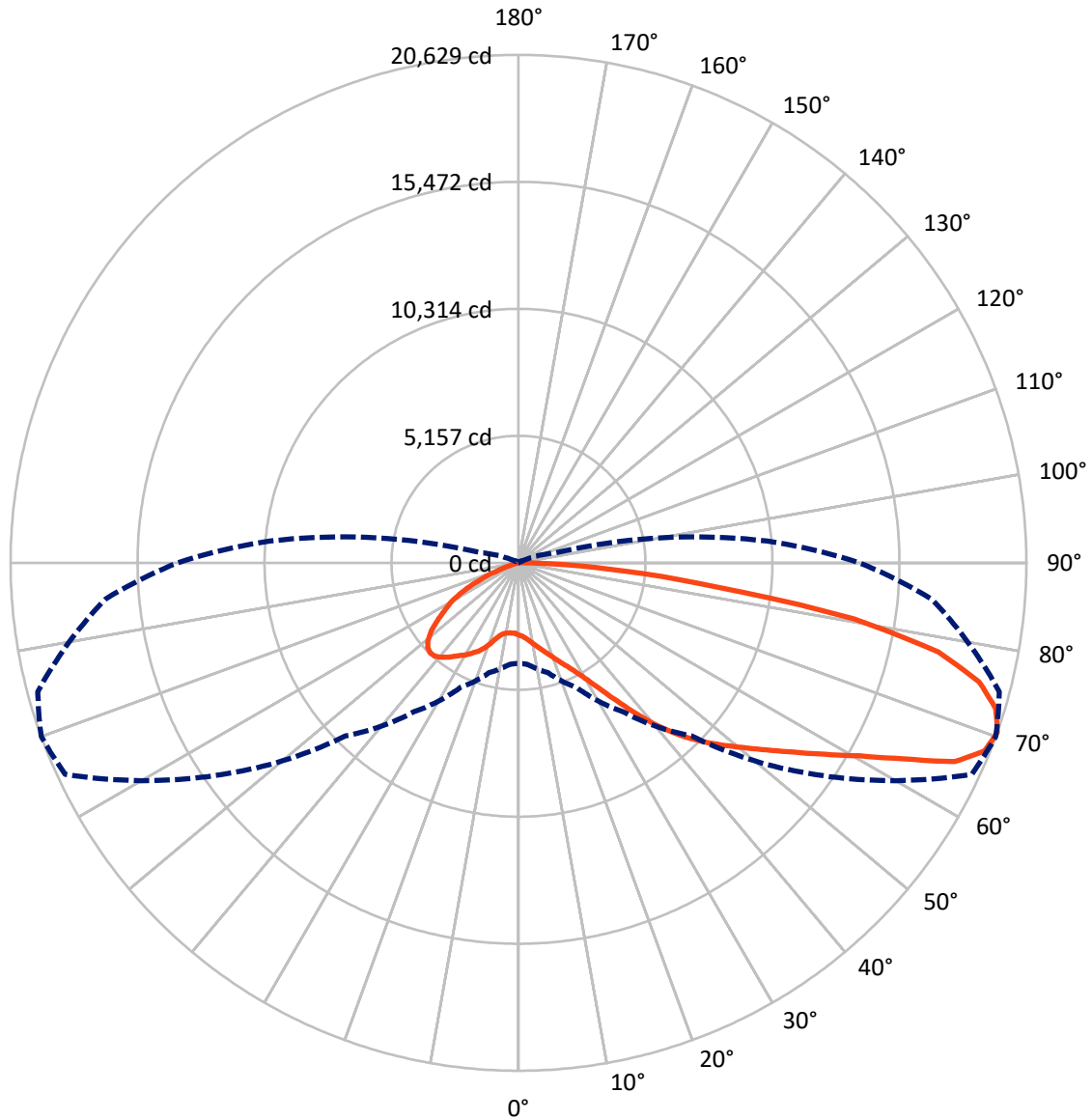
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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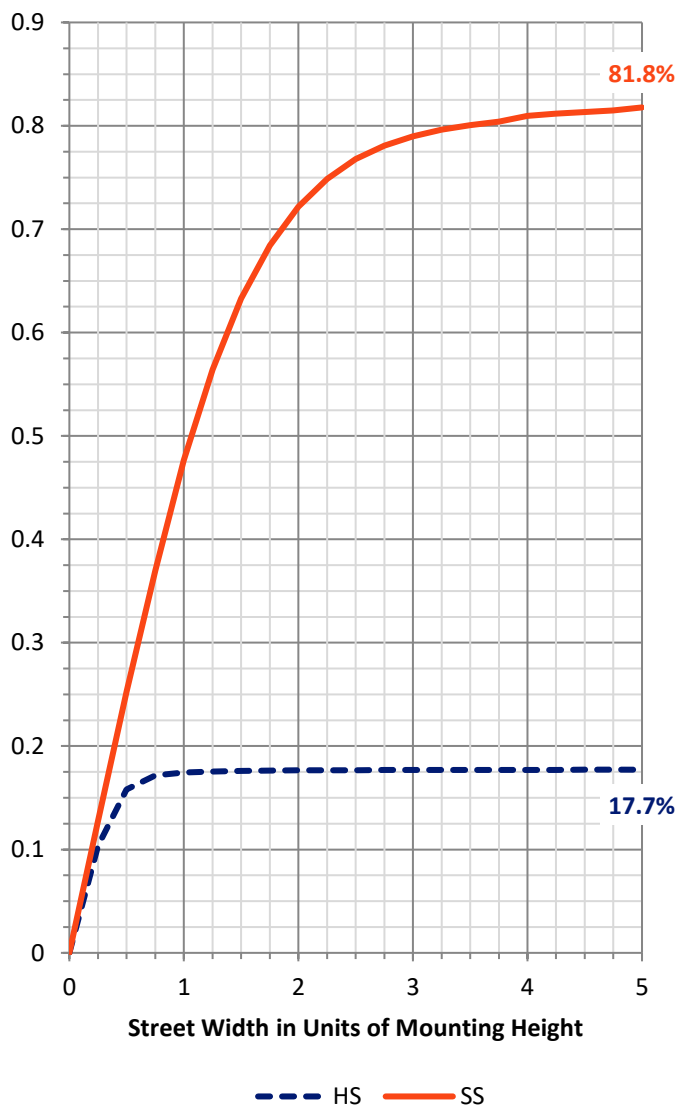
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5152.0	0.0	5152.0
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	23599.0	0.0	23599.0
	% Fixture	82.1	0.0	82.1
Total	Lumens	28751.0	0.0	28751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	1.0
10°-20°	892.7	3.1
20°-30°	1625.5	5.7
30°-40°	2763.6	9.6
40°-50°	4347.0	15.1
50°-60°	5867.9	20.4
60°-70°	6864.9	23.9
70°-80°	5108.2	17.8
80°-90°	997.2	3.5
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°	28751.0	100.0
0°-180°	28751.0	100.0

Coefficient of Utilization



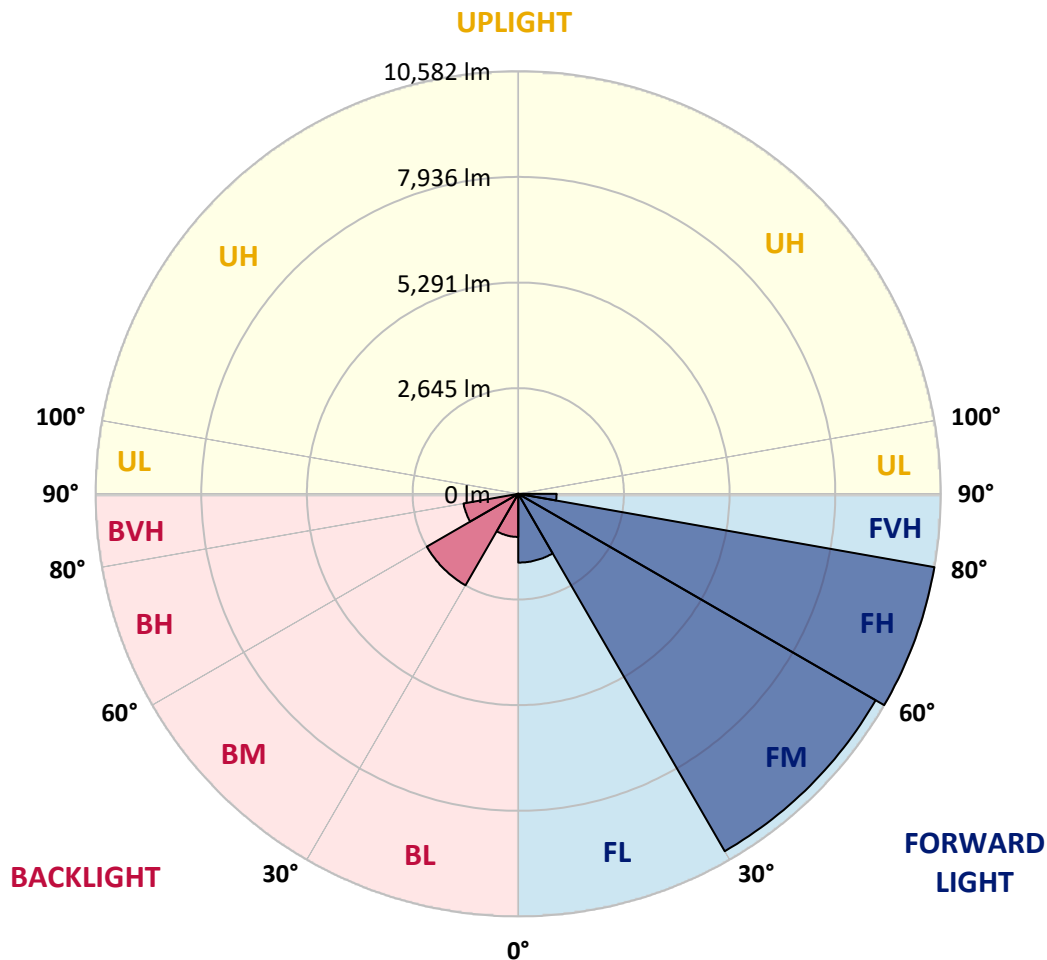
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.3	6.0			
FM (30°-60°)	10334.3	35.9			
FH (60°-80°)	10581.7	36.8			G4/12000
FVH (80°-90°)	960.7	3.3			G5
BL (0°-30°)	1079.9	3.8	B3/2500		
BM (30°-60°)	2644.2	9.2	B3/5000		
BH (60°-80°)	1391.4	4.8	B3/2500		G3/2500
BVH (80°-90°)	36.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5
2.5°	3103.2	3100.8	3105.6	3093.5	3100.8	3077.8	3057.2	3028.1	2983.3	2967.6	2937.3
5°	3254.5	3256.9	3255.7	3247.3	3236.4	3212.1	3171.0	3131.0	3077.8	3052.3	2993.0
7.5°	3384.1	3385.3	3390.1	3387.7	3381.7	3350.2	3312.6	3261.8	3197.6	3164.9	3083.8
10°	3487.0	3485.8	3493.0	3503.9	3528.2	3503.9	3454.3	3413.1	3344.1	3300.5	3200.0
12.5°	3554.8	3546.3	3566.9	3597.2	3640.8	3644.4	3611.7	3569.3	3508.8	3457.9	3345.3
15°	3586.3	3582.6	3620.2	3683.1	3746.1	3766.7	3761.8	3730.3	3685.6	3634.7	3512.4
17.5°	3660.1	3658.9	3684.3	3758.2	3832.1	3884.1	3937.4	3932.5	3891.4	3855.1	3727.9
20°	3780.0	3782.4	3782.4	3846.6	3927.7	4019.7	4125.1	4157.7	4125.1	4103.3	3981.0
22.5°	3926.5	3915.6	3908.3	3961.6	4060.9	4189.2	4338.2	4398.7	4393.8	4372.1	4298.2
25°	4132.3	4108.1	4056.0	4122.6	4244.9	4395.1	4569.4	4671.1	4679.6	4685.6	4738.9
27.5°	4459.2	4458.0	4369.6	4374.5	4458.0	4632.4	4845.5	5021.0	5045.2	5113.0	5295.9
30°	5117.9	5051.3	4949.6	4787.3	4759.5	4924.2	5178.4	5447.2	5516.2	5723.3	5944.8
32.5°	5734.2	5684.5	5613.1	5425.4	5196.6	5257.1	5546.5	5944.8	6126.4	6539.3	6741.5
35°	6263.3	6237.8	6184.6	6073.2	5866.1	5709.9	5947.3	6498.1	6880.7	7486.1	7662.9
37.5°	6780.3	6760.9	6725.8	6627.7	6498.1	6264.5	6413.4	7150.7	7773.1	8482.6	8573.4
40°	7234.3	7228.2	7258.5	7198.0	7141.1	6995.8	6952.2	7839.7	8705.4	9453.6	9431.8
42.5°	7631.4	7621.7	7769.4	7689.5	7757.3	7701.6	7610.8	8483.8	9550.5	10250.3	10176.4
45°	7896.6	7891.7	8047.9	8127.8	8319.1	8360.3	8305.8	9152.1	10320.5	10980.4	10818.1
47.5°	8098.8	8085.5	8171.4	8478.9	8832.5	8916.0	9021.4	9898.0	11044.5	11625.7	11429.6
50°	8208.9	8213.8	8390.6	8805.9	9328.9	9521.4	9743.0	10784.2	11780.7	12317.1	11992.6
52.5°	8280.4	8332.4	8592.8	9092.8	9807.2	10145.0	10399.2	11741.9	12614.9	12969.7	12623.4
55°	8331.2	8423.3	8683.6	9247.8	10106.2	10665.6	11037.3	12751.7	13564.1	13788.1	13291.7
57.5°	8003.1	8101.2	8539.5	9275.6	10353.2	11105.1	11768.6	13832.9	14674.4	14695.0	13912.8
60°	7466.8	7527.3	8087.9	9104.9	10318.1	11509.5	12665.8	15113.9	15911.8	15900.9	14680.5
62.5°	6912.2	6943.7	7512.8	8654.5	10119.5	11658.4	13520.6	16835.6	17520.9	17197.6	15462.6
65°	6179.7	6214.8	6802.0	7911.1	9567.4	11557.9	14251.8	18640.9	19463.0	18947.2	16219.3
67.5°	5225.6	5292.2	5834.6	6865.0	8669.0	11027.6	14808.8	19878.2	20407.4	19955.7	16749.6
70°	4075.4	4134.7	4619.0	5590.1	7373.5	9946.4	15067.9	20314.1	20628.9	20214.8	16839.2
72.5°	2902.2	2945.8	3160.1	3972.5	5592.5	8311.9	14822.1	20104.7	20268.1	19751.1	16231.4
75°	2209.6	2174.5	2301.7	2609.2	3271.5	5840.7	13326.8	19157.8	19324.9	18754.7	15046.1
77.5°	1599.4	1571.6	1724.1	1962.6	2282.3	2746.0	9367.6	17213.4	17428.9	16962.7	13033.8
80°	940.8	980.7	1182.9	1409.3	1663.6	1829.5	4416.9	12859.5	13808.7	13618.6	9502.0
82.5°	179.2	193.7	491.6	747.0	916.5	969.8	1672.1	7073.3	8107.2	8314.3	5019.8
85°	117.4	127.1	294.2	300.3	293.0	375.3	675.6	3408.3	4376.9	4426.5	2204.8
87.5°	54.5	60.5	89.6	129.6	164.7	197.4	222.8	915.3	1352.4	1383.9	435.9
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°	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5	2938.5
2.5°	2921.6	2909.5	2884.0	2862.2	2847.7	2839.2	2790.8	2782.3	2764.2	2750.8	2744.8
5°	2965.1	2942.1	2880.4	2838.0	2783.5	2738.7	2657.6	2616.5	2592.2	2566.8	2560.8
7.5°	3039.0	3001.5	2904.6	2828.3	2735.1	2654.0	2540.2	2474.8	2428.8	2392.5	2388.8
10°	3143.1	3083.8	2944.6	2833.2	2698.8	2587.4	2445.7	2340.4	2276.2	2229.0	2226.6
12.5°	3272.7	3191.6	3019.6	2871.9	2698.8	2545.0	2376.7	2236.3	2141.8	2077.7	2070.4
15°	3434.9	3338.1	3144.3	2962.7	2758.1	2562.0	2329.5	2140.6	2002.6	1899.7	1894.8
17.5°	3637.1	3536.6	3347.7	3143.1	2870.7	2588.6	2294.4	2028.0	1828.2	1706.0	1692.6
20°	3892.6	3845.4	3651.7	3352.6	2986.9	2601.9	2215.7	1871.8	1600.6	1443.2	1422.6
22.5°	4258.2	4231.6	3954.3	3531.8	3053.5	2560.8	2086.1	1622.4	1293.1	1123.6	1107.8
25°	4715.9	4623.9	4225.6	3665.0	3065.6	2469.9	1867.0	1304.0	935.9	767.6	761.6
27.5°	5192.9	5025.9	4460.4	3758.2	3030.5	2287.1	1559.5	927.4	583.6	475.8	477.0
30°	5794.7	5477.5	4726.8	3846.6	2949.4	2038.9	1156.3	577.5	366.9	301.5	293.0
32.5°	6488.5	6049.0	4993.2	3881.7	2798.1	1687.8	733.7	354.8	230.0	196.1	192.5
35°	7298.5	6756.0	5335.8	3885.3	2548.6	1254.3	439.5	208.3	156.2	157.4	159.8
37.5°	8143.6	7505.5	5753.5	3841.7	2237.5	784.6	248.2	134.4	134.4	159.8	168.3
40°	8908.8	8222.3	6196.7	3743.7	1799.2	456.5	140.4	116.2	123.5	150.1	157.4
42.5°	9611.0	8842.2	6602.3	3591.1	1284.6	247.0	121.1	105.3	111.4	123.5	127.1
45°	10218.8	9381.0	6894.1	3345.3	779.7	152.6	111.4	95.6	94.4	102.9	105.3
47.5°	10743.1	9862.8	7091.4	2994.2	408.0	145.3	107.8	87.2	81.1	84.8	86.0
50°	11280.6	10220.0	7165.3	2501.4	209.5	136.8	100.5	81.1	75.1	86.0	87.2
52.5°	11824.3	10756.4	7175.0	1812.5	165.9	123.5	92.0	75.1	72.6	95.6	99.3
55°	12353.4	11147.5	7035.7	1049.7	161.0	115.0	83.5	67.8	70.2	72.6	72.6
57.5°	12911.5	11616.0	6742.7	458.9	156.2	105.3	77.5	61.7	52.1	58.1	60.5
60°	13509.7	12020.4	6153.1	265.2	148.9	94.4	66.6	50.9	43.6	43.6	47.2
62.5°	14113.8	12317.1	5188.1	193.7	141.7	88.4	58.1	44.8	36.3	36.3	38.7
65°	14506.1	12119.7	4001.6	171.9	136.8	79.9	50.9	38.7	29.1	27.8	30.3
67.5°	14434.7	11364.2	2818.6	153.8	124.7	72.6	44.8	33.9	25.4	20.6	21.8
70°	13842.6	10129.2	1563.1	144.1	111.4	66.6	40.0	30.3	20.6	13.3	13.3
72.5°	12751.7	8511.6	600.5	129.6	99.3	58.1	36.3	29.1	18.2	7.3	6.1
75°	11123.2	6477.6	216.7	109.0	82.3	53.3	35.1	30.3	17.0	2.4	0.0
77.5°	8721.1	3625.0	128.3	81.1	61.7	46.0	37.5	30.3	9.7	0.0	0.0
80°	4684.4	1308.8	90.8	52.1	41.2	33.9	33.9	24.2	4.8	0.0	0.0
82.5°	1944.5	294.2	58.1	29.1	27.8	21.8	21.8	10.9	1.2	0.0	0.0
85°	550.9	86.0	26.6	15.7	15.7	12.1	6.1	0.0	0.0	0.0	0.0
87.5°	47.2	18.2	7.3	8.5	6.1	2.4	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)