

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: P285858

Luminaire Tested: **PRV-XL-C150-D-UNV-T4-BZ-7050-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-10)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C150-D-UNV-T4-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37953 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

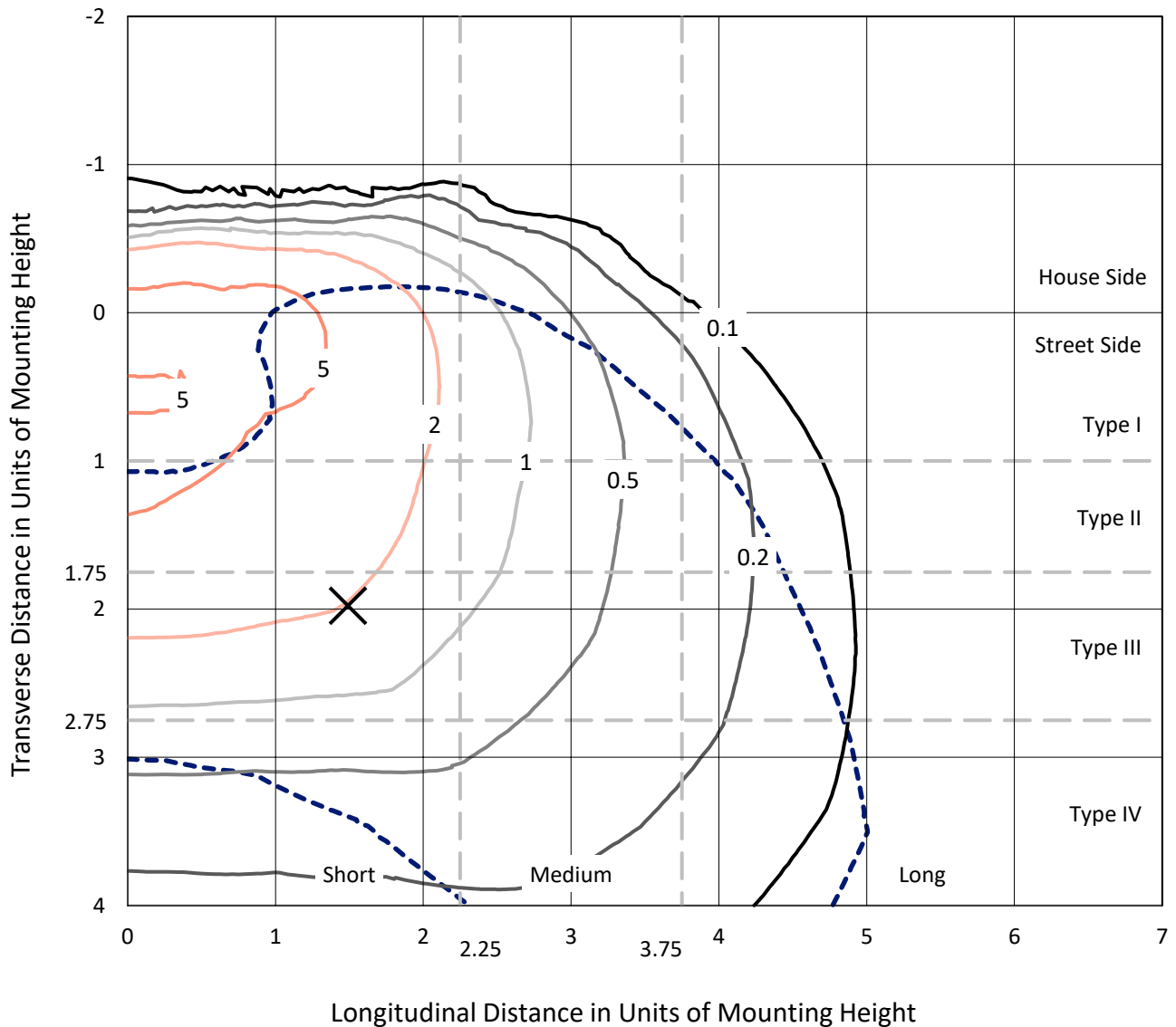
Input Watts (W): 285
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

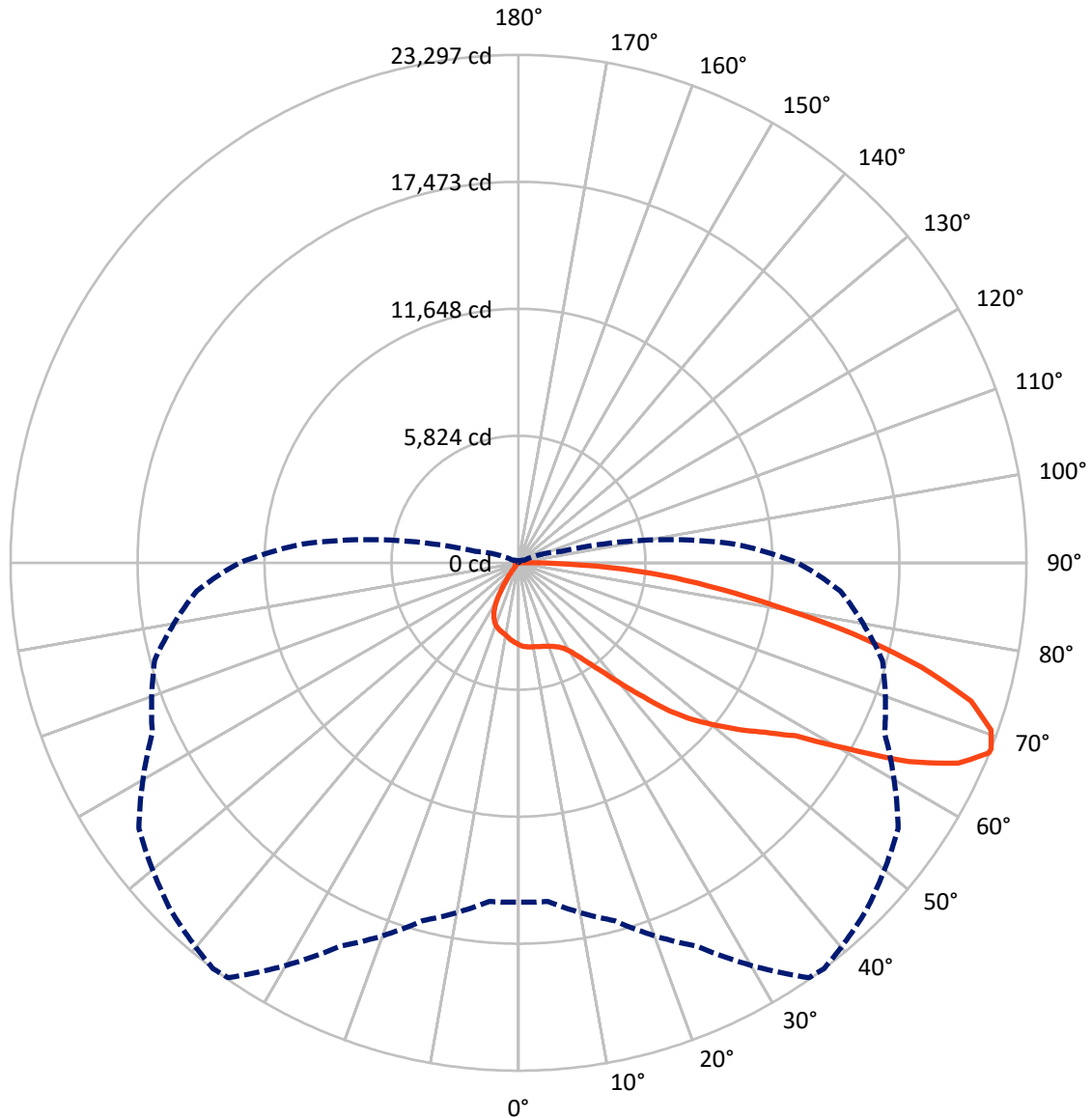
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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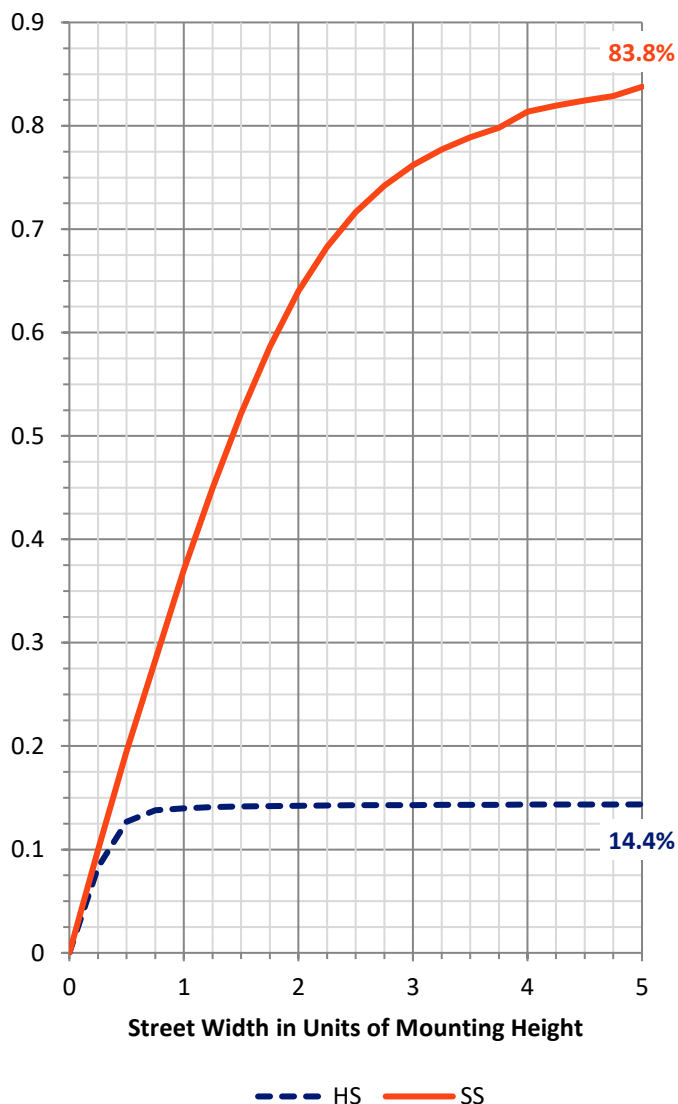
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5512.9	0.0	5512.9
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	32440.1	0.0	32440.1
	% Fixture	85.5	0.0	85.5
Total	Lumens	37953.0	0.0	37953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.7	0.9
10°-20°	1053.0	2.8
20°-30°	1759.7	4.6
30°-40°	2858.2	7.5
40°-50°	5163.6	13.6
50°-60°	7691.6	20.3
60°-70°	10019.6	26.4
70°-80°	7376.9	19.4
80°-90°	1675.6	4.4
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°	37953.0	100.0
0°-180°	37953.0	100.0

Coefficient of Utilization

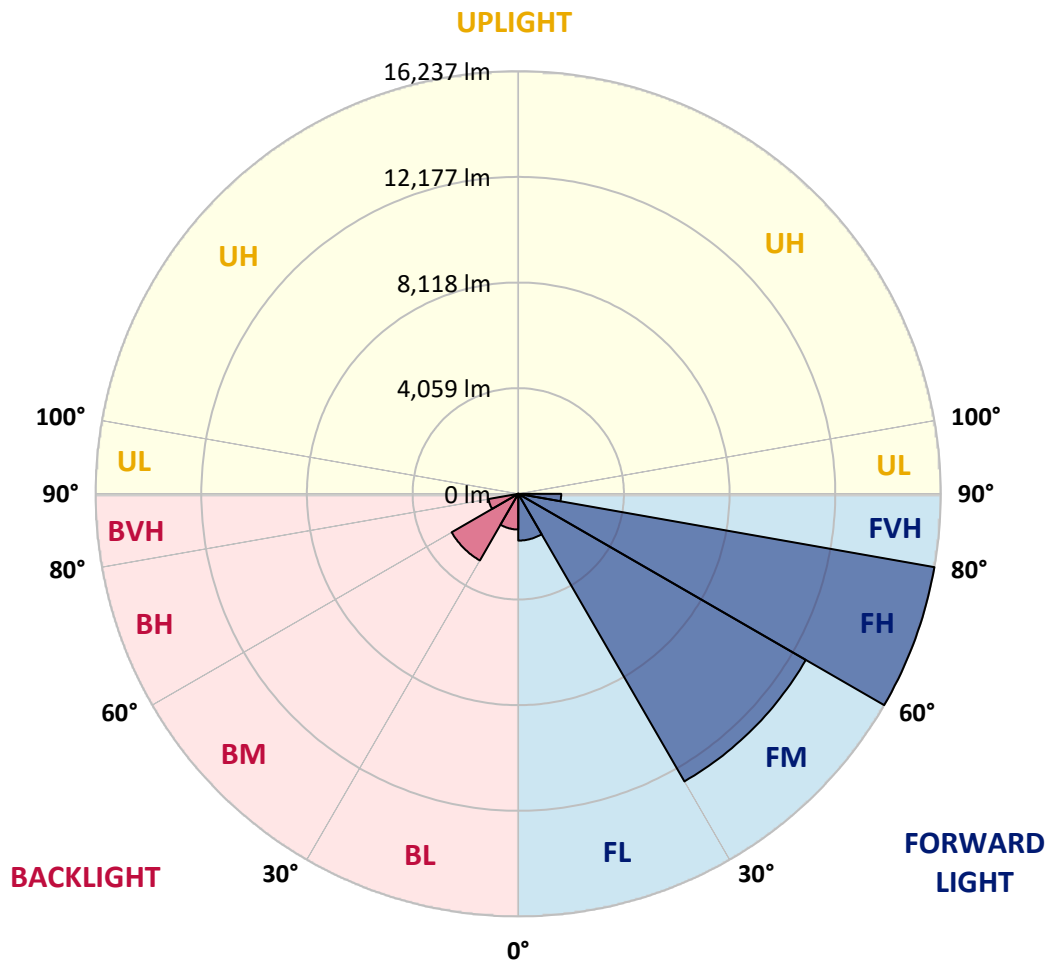


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1796.4	4.7			
FM (30°-60°)	12759.1	33.6			
FH (60°-80°)	16236.5	42.8			G5
FVH (80°-90°)	1648.1	4.3			G5
BL (0°-30°)	1371.0	3.6	B3/2500		
BM (30°-60°)	2954.3	7.8	B3/5000		
BH (60°-80°)	1160.0	3.1	B3/2500		G3/2500
BVH (80°-90°)	27.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9
2.5°	3837.6	3840.8	3840.8	3836.0	3842.4	3837.6	3826.4	3815.2	3802.4	3751.1	3739.9
5°	3855.3	3863.3	3863.3	3861.7	3871.3	3869.7	3860.1	3850.5	3836.0	3775.1	3754.3
7.5°	3864.9	3872.9	3874.5	3871.3	3890.5	3893.7	3887.3	3887.3	3876.1	3815.2	3784.7
10°	3863.3	3864.9	3869.7	3877.7	3908.2	3916.2	3924.2	3937.0	3937.0	3887.3	3852.1
12.5°	3821.6	3823.2	3839.2	3876.1	3937.0	3949.9	3973.9	4009.2	4026.8	3999.5	3969.1
15°	3792.8	3792.8	3815.2	3872.9	3965.9	3983.5	4034.8	4089.3	4140.6	4137.4	4131.0
17.5°	3818.4	3823.2	3858.5	3908.2	4002.7	4022.0	4089.3	4177.5	4259.2	4294.5	4300.9
20°	3895.3	3900.2	3938.6	3989.9	4071.7	4086.1	4151.8	4257.6	4379.5	4456.4	4501.3
22.5°	4009.2	4012.4	4042.8	4081.3	4161.4	4171.1	4235.2	4349.0	4502.9	4634.3	4712.9
25°	4116.6	4123.0	4150.2	4179.1	4268.9	4276.9	4355.4	4475.6	4655.2	4831.5	4975.8
27.5°	4225.6	4236.8	4270.5	4310.5	4440.4	4443.6	4515.7	4634.3	4847.5	5088.0	5302.8
30°	4467.6	4454.8	4483.7	4536.6	4719.3	4730.5	4802.7	4935.7	5134.5	5405.4	5716.4
32.5°	4879.6	4865.2	4863.6	4942.1	5110.4	5164.9	5243.5	5453.5	5702.0	5971.3	6296.7
35°	5693.9	5671.5	5564.1	5538.4	5637.8	5714.8	5871.9	6179.7	6598.0	7186.4	7556.7
37.5°	7046.9	7018.0	6782.4	6505.1	6362.4	6410.5	6541.9	6968.3	7670.5	8916.0	9283.1
40°	8383.8	8390.2	8104.9	7643.2	7332.2	7341.8	7288.9	7781.1	8826.2	10530.3	10679.3
42.5°	9661.4	9650.2	9300.7	8879.1	8481.6	8403.0	8205.9	8632.3	9908.3	11831.9	11767.8
45°	10794.8	10772.3	10382.8	10147.1	9711.1	9669.4	9353.6	9496.3	10999.9	12867.5	12647.9
47.5°	11876.8	11857.6	11395.9	11173.1	10822.0	10749.9	10453.3	10525.5	12013.1	13681.8	13356.4
50°	13003.7	13042.2	12370.5	12114.0	11791.8	11697.3	11548.2	11591.5	13058.2	14448.1	13960.7
52.5°	14372.7	14178.7	13467.0	12992.5	12734.4	12715.2	12524.4	12615.8	14207.6	15121.3	14499.3
55°	15833.1	15576.6	14876.1	14257.3	13678.6	13712.3	13430.1	13564.8	15239.9	15703.2	14924.1
57.5°	16830.1	16823.7	16637.8	16046.3	15038.0	14967.4	14444.8	14558.7	16144.1	16304.4	15243.2
60°	17783.9	18045.2	18245.6	17981.1	17492.2	17267.8	15805.8	15594.2	16969.6	16847.8	15425.9
62.5°	18425.2	18505.3	19260.3	19483.1	20142.0	20098.7	18526.1	16847.8	17673.3	17200.4	15485.2
65°	17835.2	17901.0	19047.1	20119.5	22076.8	22166.6	21511.0	18917.3	18228.0	17322.3	15363.4
67.5°	16006.2	16054.3	17400.8	19621.0	23152.5	23271.1	22506.5	21076.6	18508.5	17301.4	14948.2
68°	15560.6	15594.2	16992.1	19411.0	23232.6	23296.7	22556.1	21256.1	18531.0	17277.4	14813.5
70°	13648.1	13641.7	14962.6	18163.9	22972.9	22992.2	22269.2	21451.7	18442.8	17049.8	13954.3
72.5°	10552.7	10757.9	11859.2	15299.3	21541.4	21695.3	21318.6	20911.4	18067.7	16129.6	11897.6
75°	7508.6	7668.9	8800.6	11931.3	18595.1	19080.8	19749.3	19898.3	16705.1	13862.9	8765.3
77.5°	5238.7	5408.6	6466.6	8911.2	15031.6	15666.3	17077.0	17298.2	14050.5	10509.4	4472.4
80°	3351.9	3513.8	4485.3	6481.0	11349.4	11891.2	13433.3	13114.3	9832.9	5629.8	783.9
82.5°	2037.4	2119.2	2853.4	4432.4	8271.6	8775.0	9287.9	7875.7	4706.5	796.7	251.7
85°	1157.4	1215.1	1750.5	2863.0	5843.0	6134.8	6250.2	3930.6	979.4	214.8	144.3
87.5°	307.8	428.0	945.8	1764.9	2939.9	2864.6	3087.4	1407.5	176.3	93.0	68.9
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°	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9	3755.9
2.5°	3727.0	3723.8	3712.6	3707.8	3712.6	3707.8	3672.5	3675.7	3675.7	3658.1	3646.9
5°	3735.0	3727.0	3691.8	3685.4	3666.1	3635.7	3577.9	3565.1	3553.9	3525.0	3520.2
7.5°	3757.5	3746.3	3690.2	3664.5	3611.6	3557.1	3478.6	3432.1	3409.6	3374.4	3379.2
10°	3823.2	3799.2	3719.0	3669.3	3569.9	3480.2	3366.3	3295.8	3254.1	3201.2	3218.9
12.5°	3941.8	3905.0	3805.6	3719.0	3566.7	3433.7	3271.8	3141.9	3076.2	3015.3	3032.9
15°	4103.7	4063.7	3941.8	3810.4	3608.4	3414.4	3191.6	2986.4	2867.8	2789.3	2794.1
17.5°	4284.9	4249.6	4110.2	3935.4	3672.5	3401.6	3100.2	2824.5	2608.1	2495.9	2492.7
20°	4477.2	4456.4	4304.1	4068.5	3738.3	3372.8	2983.2	2617.7	2319.6	2130.4	2114.4
22.5°	4698.5	4688.8	4510.9	4199.9	3768.7	3307.0	2826.1	2361.3	1965.3	1708.8	1692.8
25°	4988.6	4974.2	4716.1	4291.3	3755.9	3196.4	2606.5	2053.5	1516.5	1221.5	1208.7
27.5°	5338.1	5265.9	4897.2	4337.8	3693.4	3021.7	2319.6	1596.6	1019.5	751.8	745.4
30°	5730.8	5589.7	5055.9	4342.6	3577.9	2778.0	1898.0	1032.3	593.1	423.2	420.0
32.5°	6240.6	5992.1	5227.5	4315.3	3401.6	2449.4	1356.2	591.5	298.2	227.6	227.6
35°	7244.1	6702.2	5447.1	4244.8	3156.4	1979.7	836.8	286.9	174.7	171.5	173.1
37.5°	8734.9	7851.6	5806.2	4131.0	2829.3	1426.7	429.6	160.3	160.3	166.7	168.3
40°	10051.0	9053.9	6323.9	3970.7	2394.9	902.5	205.2	150.7	160.3	161.9	165.1
42.5°	11092.9	10018.9	6870.6	3728.6	1885.2	480.9	171.5	145.9	149.1	147.5	153.9
45°	11926.5	10780.3	7292.2	3411.2	1330.5	246.9	177.9	141.1	129.8	129.8	133.1
47.5°	12575.7	11359.0	7556.7	3066.6	809.5	198.8	177.9	125.0	117.0	118.6	120.2
50°	13146.4	11791.8	7648.0	2641.8	407.2	202.0	171.5	118.6	104.2	105.8	109.0
52.5°	13556.8	12096.4	7579.1	2114.4	224.4	205.2	163.5	109.0	89.8	97.8	101.0
55°	13866.2	12240.7	7351.5	1503.6	203.6	202.0	158.7	97.8	80.2	96.2	101.0
57.5°	14040.9	12288.8	6965.1	979.4	222.8	177.9	145.9	89.8	75.3	94.6	101.0
60°	14113.0	12200.6	6407.3	573.9	227.6	157.1	136.3	83.4	68.9	78.5	81.8
62.5°	14037.7	11974.6	5586.5	362.3	208.4	149.1	129.8	78.5	57.7	56.1	54.5
65°	13737.9	11415.1	4230.4	290.1	194.0	149.1	121.8	68.9	44.9	33.7	30.5
67.5°	13021.4	10261.0	2393.3	286.9	189.2	145.9	110.6	62.5	35.3	17.6	14.4
68°	12805.0	9929.1	2016.6	291.8	194.0	145.9	109.0	59.3	33.7	14.4	11.2
70°	11485.7	8138.6	695.7	280.5	221.2	153.9	104.2	51.3	27.3	6.4	4.8
72.5°	8746.1	4999.8	307.8	226.0	243.7	160.3	104.2	49.7	22.4	1.6	0.0
75°	5084.8	1231.1	262.9	152.3	203.6	190.8	120.2	57.7	20.8	0.0	0.0
77.5°	1232.7	283.7	229.2	88.2	160.3	208.4	142.7	64.1	22.4	0.0	0.0
80°	293.4	221.2	222.8	56.1	128.2	186.0	123.4	68.9	32.1	0.0	0.0
82.5°	194.0	174.7	198.8	30.5	73.7	137.9	86.6	43.3	40.1	0.0	0.0
85°	131.4	160.3	113.8	17.6	28.9	46.5	35.3	6.4	8.0	0.0	0.0
87.5°	73.7	46.5	19.2	8.0	6.4	4.8	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)