

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: P285856

Luminaire Tested: **PRV-XL-C100-D-UNV-T4-BZ-7050-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285856
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-C100-D-UNV-T4-BZ-7050-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 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: 28666 lumens
Efficiency: N/A
Efficacy: 132.1 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

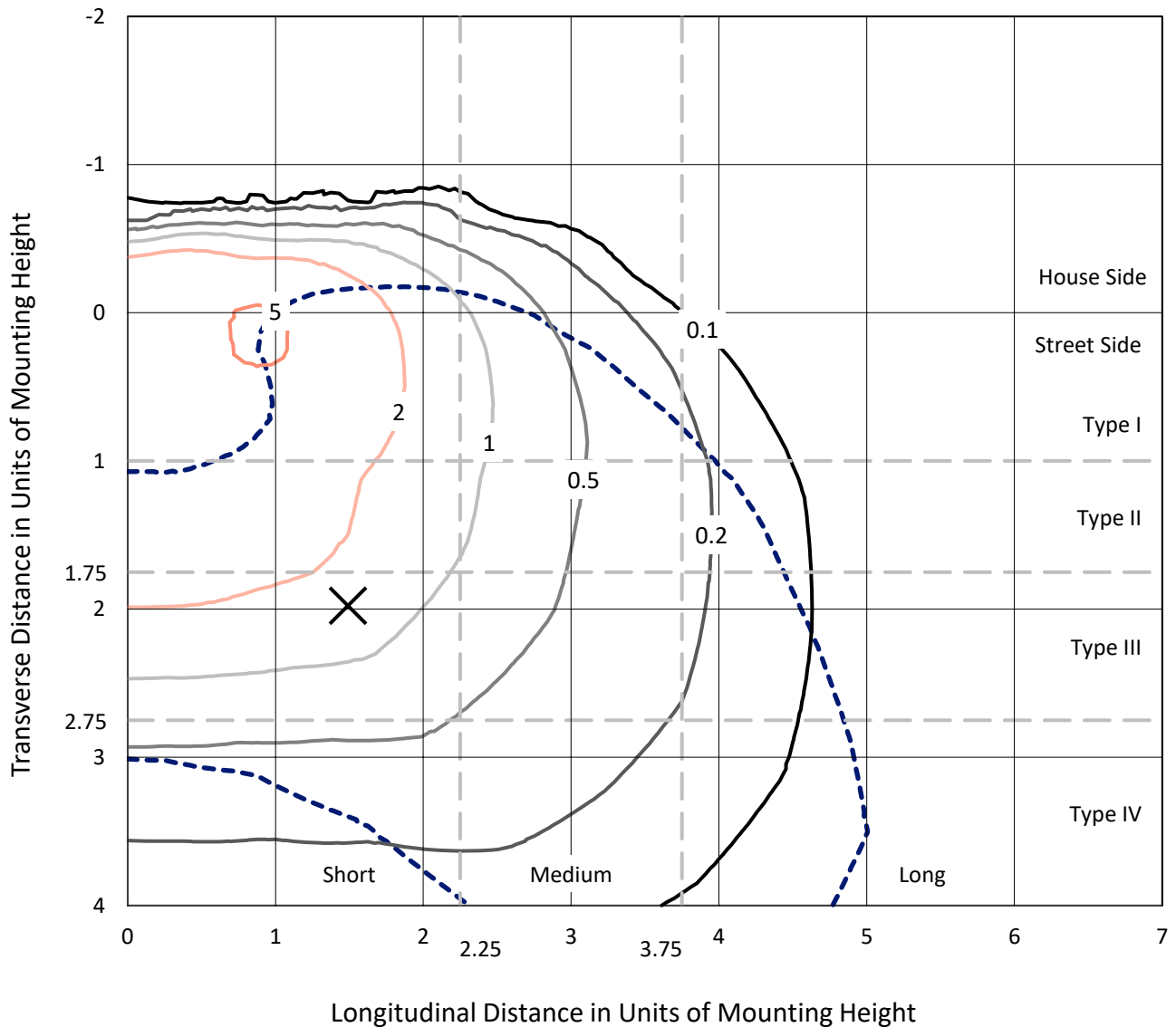
Input Watts (W): 217
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

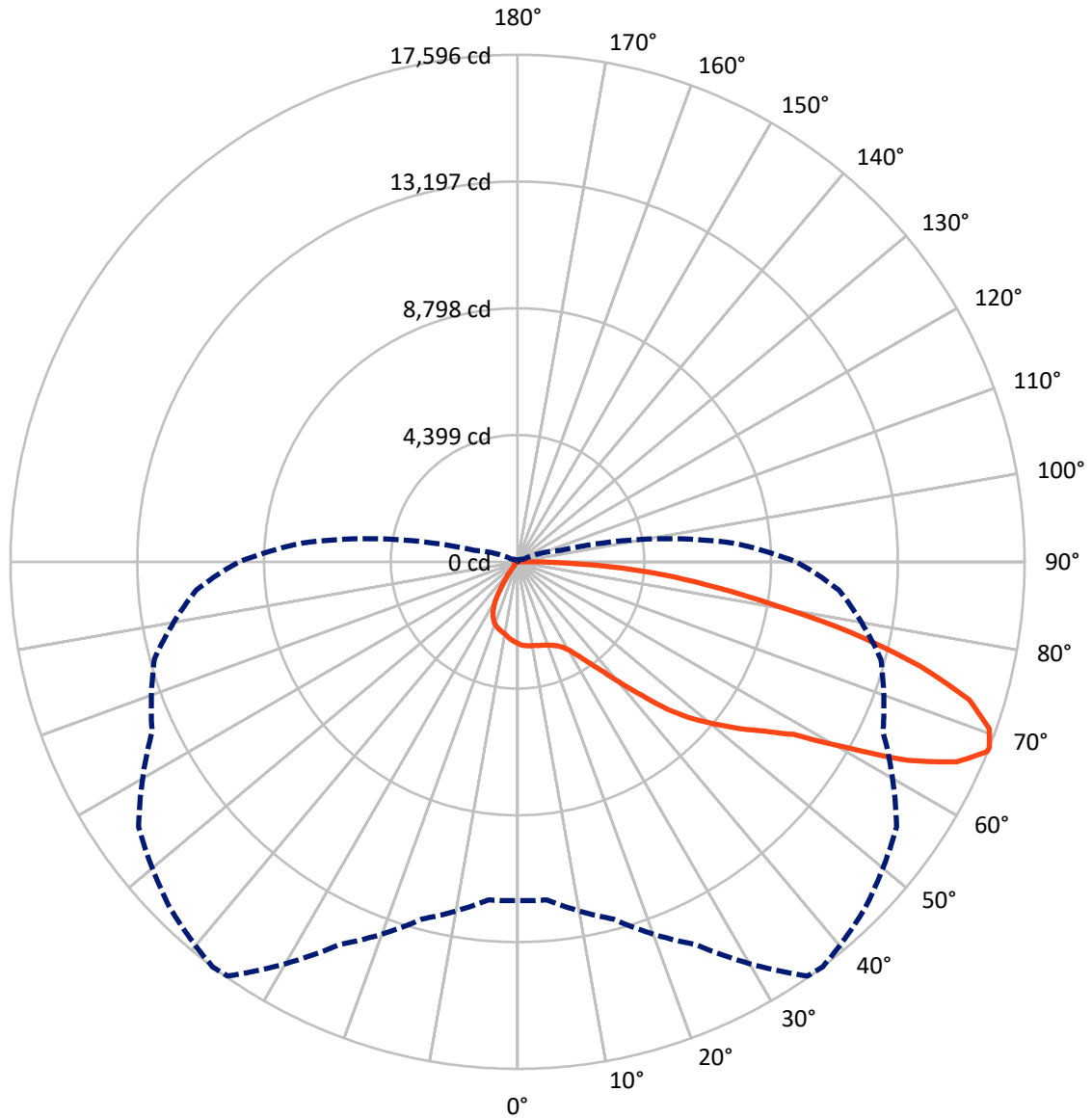
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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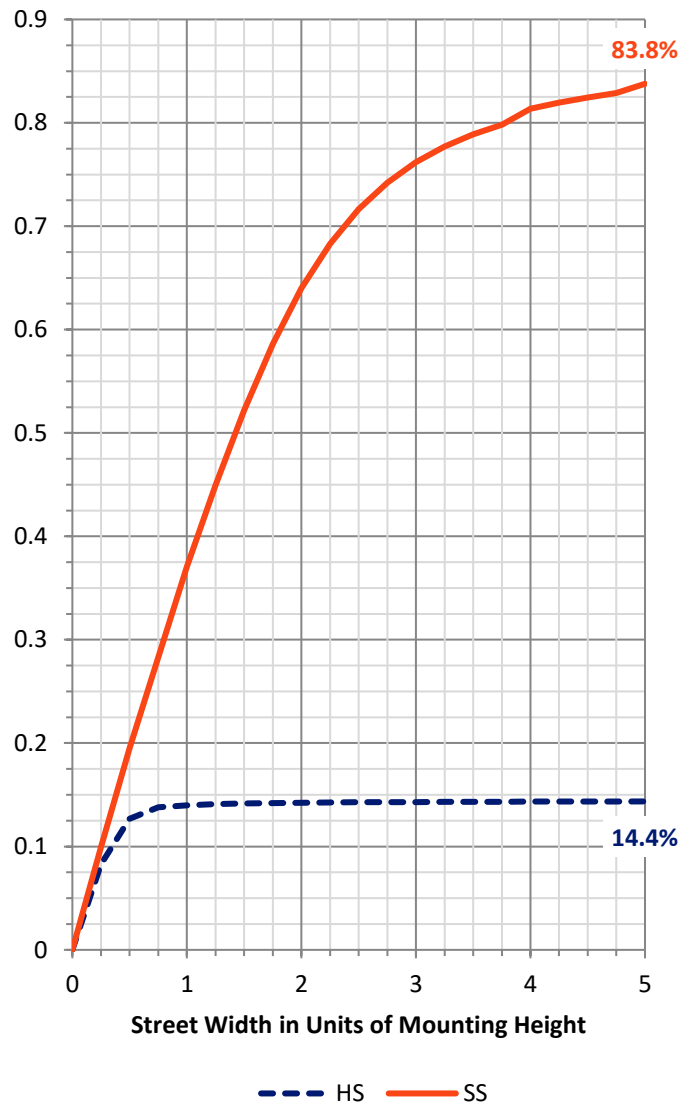
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4163.9	0.0	4163.9
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	24502.1	0.0	24502.1
	% Fixture	85.5	0.0	85.5
Total	Lumens	28666.0	0.0	28666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	0.9
10°-20°	795.3	2.8
20°-30°	1329.1	4.6
30°-40°	2158.8	7.5
40°-50°	3900.1	13.6
50°-60°	5809.5	20.3
60°-70°	7567.8	26.4
70°-80°	5571.8	19.4
80°-90°	1265.6	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°	28666.0	100.0
0°-180°	28666.0	100.0

Coefficient of Utilization

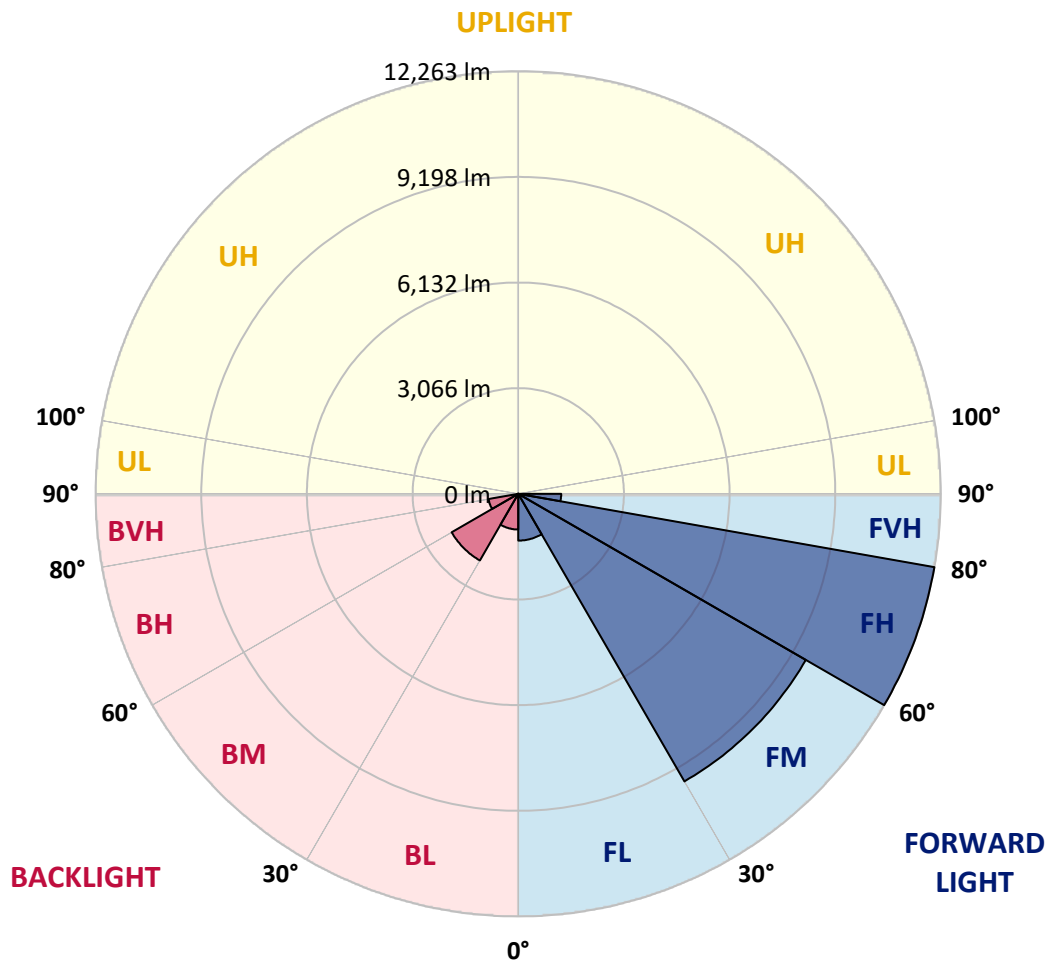


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.8	4.7			
FM (30°-60°)	9637.0	33.6			
FH (60°-80°)	12263.5	42.8			G5
FVH (80°-90°)	1244.8	4.3			G5
BL (0°-30°)	1035.6	3.6	B3/2500		
BM (30°-60°)	2231.4	7.8	B2/2500		
BH (60°-80°)	876.2	3.1	B2/1000		G2/1000
BVH (80°-90°)	20.8	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°	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8
2.5°	2898.6	2901.0	2901.0	2897.4	2902.2	2898.6	2890.1	2881.6	2871.9	2833.2	2824.7
5°	2911.9	2918.0	2918.0	2916.7	2924.0	2922.8	2915.5	2908.3	2897.4	2851.4	2835.6
7.5°	2919.2	2925.2	2926.4	2924.0	2938.5	2941.0	2936.1	2936.1	2927.6	2881.6	2858.6
10°	2918.0	2919.2	2922.8	2928.8	2951.9	2957.9	2964.0	2973.6	2973.6	2936.1	2909.5
12.5°	2886.5	2887.7	2899.8	2927.6	2973.6	2983.3	3001.5	3028.1	3041.4	3020.9	2997.9
15°	2864.7	2864.7	2881.6	2925.2	2995.4	3008.8	3047.5	3088.7	3127.4	3125.0	3120.1
17.5°	2884.0	2887.7	2914.3	2951.9	3023.3	3037.8	3088.7	3155.3	3217.0	3243.6	3248.5
20°	2942.2	2945.8	2974.9	3013.6	3075.4	3086.2	3135.9	3215.8	3307.8	3365.9	3399.8
22.5°	3028.1	3030.6	3053.6	3082.6	3143.2	3150.4	3198.8	3284.8	3401.0	3500.3	3559.7
25°	3109.3	3114.1	3134.7	3156.5	3224.3	3230.3	3289.7	3380.5	3516.1	3649.3	3758.2
27.5°	3191.6	3200.1	3225.5	3255.8	3353.8	3356.2	3410.7	3500.3	3661.4	3843.0	4005.2
30°	3374.4	3364.7	3386.5	3426.5	3564.5	3573.0	3627.5	3728.0	3878.1	4082.7	4317.6
32.5°	3685.6	3674.7	3673.5	3732.8	3859.9	3901.1	3960.4	4119.0	4306.7	4510.1	4755.9
35°	4300.6	4283.7	4202.6	4183.2	4258.3	4316.4	4435.0	4667.5	4983.5	5427.9	5707.6
37.5°	5322.5	5300.7	5122.8	4913.3	4805.5	4841.9	4941.1	5263.2	5793.5	6734.3	7011.6
40°	6332.3	6337.2	6121.6	5772.9	5538.1	5545.3	5505.4	5877.1	6666.5	7953.5	8066.1
42.5°	7297.3	7288.8	7024.9	6706.4	6406.2	6346.8	6197.9	6520.0	7483.8	8936.7	8888.2
45°	8153.3	8136.4	7842.1	7664.2	7334.8	7303.4	7064.8	7172.6	8308.3	9718.8	9553.0
47.5°	8970.6	8956.1	8607.3	8439.1	8173.9	8119.4	7895.4	7949.9	9073.5	10333.9	10088.1
50°	9821.7	9850.8	9343.5	9149.8	8906.4	8835.0	8722.4	8755.1	9862.9	10912.7	10544.6
52.5°	10855.7	10709.2	10171.7	9813.3	9618.3	9603.8	9459.7	9528.7	10731.0	11421.2	10951.4
55°	11958.8	11765.0	11235.9	10768.6	10331.5	10356.9	10143.8	10245.5	11510.8	11860.7	11272.2
57.5°	12711.9	12707.0	12566.6	12119.8	11358.2	11304.9	10910.2	10996.2	12193.6	12314.7	11513.2
60°	13432.3	13629.6	13781.0	13581.2	13211.9	13042.4	11938.2	11778.4	12817.2	12725.2	11651.2
62.5°	13916.6	13977.1	14547.4	14715.7	15213.3	15180.6	13992.8	12725.2	13348.7	12991.5	11696.0
65°	13471.0	13520.6	14386.3	15196.3	16674.7	16742.5	16247.3	14288.3	13767.6	13083.6	11604.0
67.5°	12089.5	12125.8	13142.9	14819.8	17487.1	17576.7	16999.2	15919.2	13979.5	13067.8	11290.4
68°	11752.9	11778.4	12834.1	14661.2	17547.7	17596.1	17036.7	16054.8	13996.5	13049.7	11188.7
70°	10308.5	10303.6	11301.3	13719.2	17351.5	17366.0	16820.0	16202.5	13929.9	12877.7	10539.7
72.5°	7970.5	8125.5	8957.3	11555.6	16270.3	16386.5	16102.0	15794.5	13646.6	12182.7	8986.3
75°	5671.2	5792.3	6647.1	9011.7	14044.9	14411.8	14916.7	15029.3	12617.4	10470.7	6620.5
77.5°	3956.8	4085.1	4884.2	6730.7	11353.4	11832.8	12898.3	13065.4	10612.4	7937.8	3378.0
80°	2531.7	2654.0	3387.7	4895.1	8572.2	8981.5	10146.2	9905.3	7426.9	4252.2	592.1
82.5°	1538.9	1600.6	2155.2	3347.8	6247.6	6627.7	7015.2	5948.5	3554.8	601.8	190.1
85°	874.2	917.8	1322.2	2162.4	4413.2	4633.6	4720.8	2968.8	739.8	162.2	109.0
87.5°	232.5	323.3	714.4	1333.1	2220.5	2163.6	2331.9	1063.1	133.2	70.2	52.1
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°	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8	2836.8
2.5°	2815.0	2812.6	2804.1	2800.5	2804.1	2800.5	2773.9	2776.3	2776.3	2763.0	2754.5
5°	2821.1	2815.0	2788.4	2783.6	2769.0	2746.0	2702.4	2692.7	2684.3	2662.5	2658.8
7.5°	2838.0	2829.6	2787.2	2767.8	2727.9	2686.7	2627.4	2592.3	2575.3	2548.7	2552.3
10°	2887.7	2869.5	2809.0	2771.4	2696.4	2628.6	2542.6	2489.3	2457.9	2417.9	2431.2
12.5°	2977.3	2949.4	2874.4	2809.0	2694.0	2593.5	2471.2	2373.1	2323.5	2277.5	2290.8
15°	3099.6	3069.3	2977.3	2878.0	2725.4	2578.9	2410.6	2255.7	2166.1	2106.7	2110.4
17.5°	3236.4	3209.7	3104.4	2972.4	2773.9	2569.2	2341.6	2133.4	1969.9	1885.2	1882.7
20°	3381.7	3365.9	3250.9	3072.9	2823.5	2547.5	2253.2	1977.2	1752.0	1609.1	1597.0
22.5°	3548.8	3541.5	3407.1	3172.2	2846.5	2497.8	2134.6	1783.5	1484.4	1290.7	1278.6
25°	3767.9	3757.0	3562.1	3241.2	2836.8	2414.3	1968.7	1551.0	1145.4	922.6	912.9
27.5°	4031.9	3977.4	3698.9	3276.3	2789.6	2282.3	1752.0	1205.9	770.0	567.9	563.0
30°	4328.5	4221.9	3818.8	3280.0	2702.4	2098.3	1433.5	779.7	448.0	319.6	317.2
32.5°	4713.5	4525.9	3948.3	3259.4	2569.2	1850.1	1024.3	446.8	225.2	171.9	171.9
35°	5471.5	5062.2	4114.2	3206.1	2384.0	1495.3	632.0	216.7	132.0	129.6	130.8
37.5°	6597.5	5930.3	4385.4	3120.1	2137.0	1077.6	324.5	121.1	121.1	125.9	127.1
40°	7591.5	6838.4	4776.5	2999.1	1808.9	681.7	155.0	113.8	121.1	122.3	124.7
42.5°	8378.5	7567.3	5189.4	2816.2	1423.9	363.2	129.6	110.2	112.6	111.4	116.2
45°	9008.1	8142.4	5507.8	2576.5	1004.9	186.5	134.4	106.5	98.1	98.1	100.5
47.5°	9498.5	8579.5	5707.6	2316.2	611.4	150.1	134.4	94.4	88.4	89.6	90.8
50°	9929.5	8906.4	5776.6	1995.3	307.5	152.6	129.6	89.6	78.7	79.9	82.3
52.5°	10239.5	9136.5	5724.5	1597.0	169.5	155.0	123.5	82.3	67.8	73.9	76.3
55°	10473.1	9245.4	5552.6	1135.7	153.8	152.6	119.9	73.9	60.5	72.6	76.3
57.5°	10605.1	9281.7	5260.8	739.8	168.3	134.4	110.2	67.8	56.9	71.4	76.3
60°	10659.6	9215.2	4839.4	433.5	171.9	118.7	102.9	63.0	52.1	59.3	61.7
62.5°	10602.7	9044.4	4219.5	273.6	157.4	112.6	98.1	59.3	43.6	42.4	41.2
65°	10376.3	8621.9	3195.2	219.1	146.5	112.6	92.0	52.1	33.9	25.4	23.0
67.5°	9835.1	7750.1	1807.7	216.7	142.9	110.2	83.5	47.2	26.6	13.3	10.9
68°	9671.6	7499.5	1523.1	220.4	146.5	110.2	82.3	44.8	25.4	10.9	8.5
70°	8675.2	6147.1	525.5	211.9	167.1	116.2	78.7	38.7	20.6	4.8	3.6
72.5°	6605.9	3776.4	232.5	170.7	184.0	121.1	78.7	37.5	17.0	1.2	0.0
75°	3840.6	929.9	198.6	115.0	153.8	144.1	90.8	43.6	15.7	0.0	0.0
77.5°	931.1	214.3	173.1	66.6	121.1	157.4	107.8	48.4	17.0	0.0	0.0
80°	221.6	167.1	168.3	42.4	96.9	140.4	93.2	52.1	24.2	0.0	0.0
82.5°	146.5	132.0	150.1	23.0	55.7	104.1	65.4	32.7	30.3	0.0	0.0
85°	99.3	121.1	86.0	13.3	21.8	35.1	26.6	4.8	6.1	0.0	0.0
87.5°	55.7	35.1	14.5	6.1	4.8	3.6	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)