

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: P285774

Luminaire Tested: **PRV-XL-C175-D-UNV-T2-BZ-HSS**

Issue Date: 2/13/2019

Test Information

Test Method: LM-79-08
Report Number: P285774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-6)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 2/13/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-C175-D-UNV-T2-BZ-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45001 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

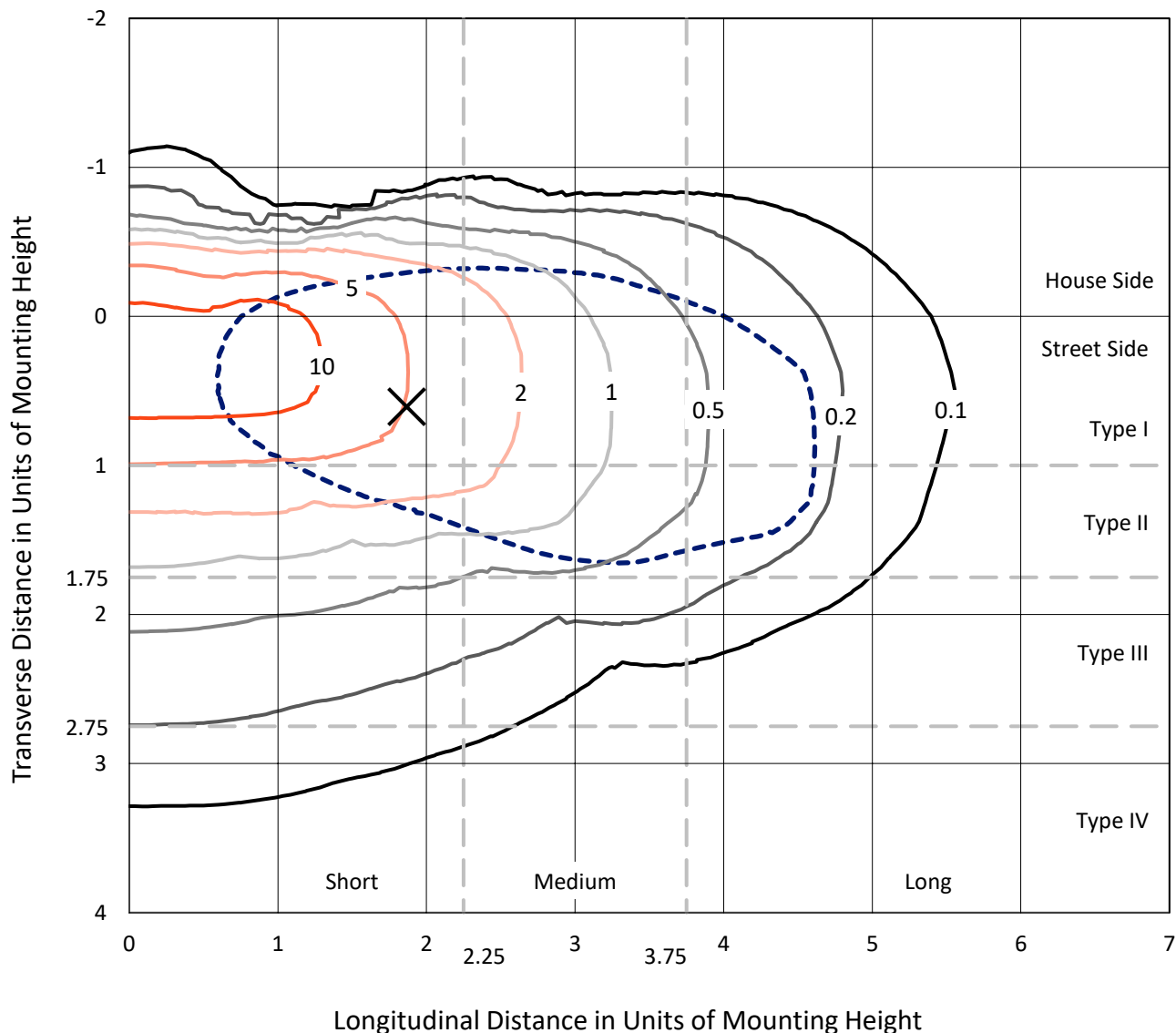
Input Watts (W): 346
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

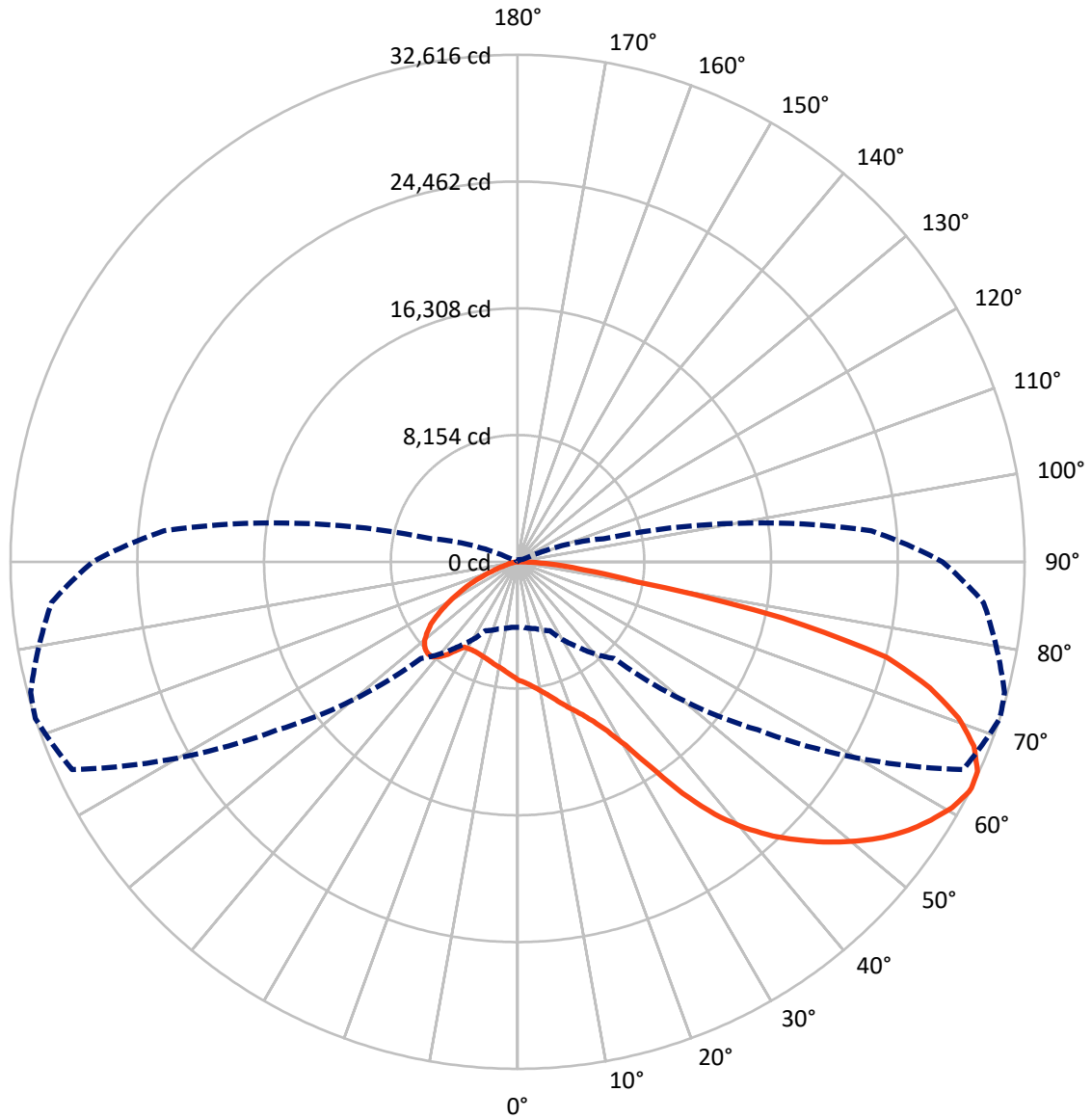
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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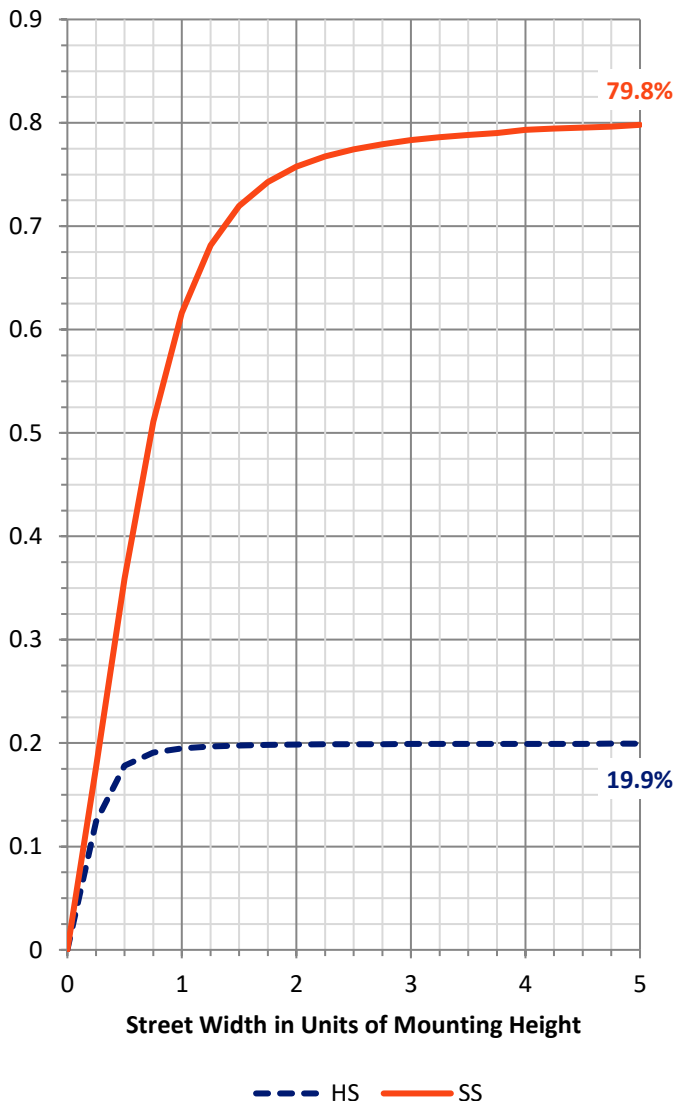
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9078.8	0.0	9078.8
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	35922.2	0.0	35922.2
	% Fixture	79.8	0.0	79.8
Total	Lumens	45001.0	0.0	45001.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.3	1.6
10°-20°	2205.4	4.9
20°-30°	3721.1	8.3
30°-40°	5695.0	12.7
40°-50°	7933.9	17.6
50°-60°	9195.5	20.4
60°-70°	9014.8	20.0
70°-80°	5628.3	12.5
80°-90°	879.7	2.0
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°	45001.0	100.0
0°-180°	45001.0	100.0

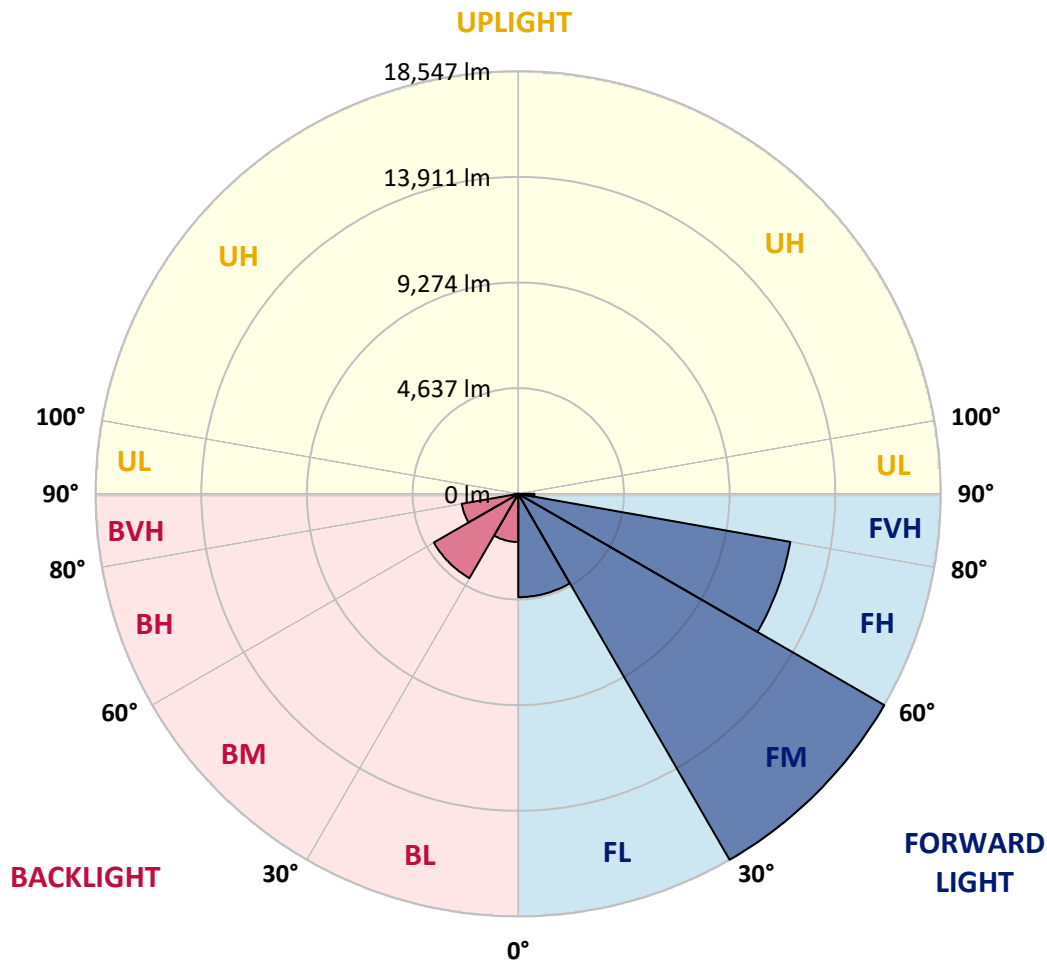


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4537.3	10.1			
FM (30°-60°)	18547.4	41.2			
FH (60°-80°)	12126.3	26.9			G5
FVH (80°-90°)	711.1	1.6			G4/750
BL (0°-30°)	2116.5	4.7	B3/2500		
BM (30°-60°)	4277.0	9.5	B3/5000		
BH (60°-80°)	2516.7	5.6	B4/5000		G4/5000
BVH (80°-90°)	168.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1
2.5°	8275.8	8253.5	8229.3	8199.5	8175.4	8100.9	8033.9	7905.5	7747.3	7739.9	7611.5
5°	8839.7	8804.4	8776.5	8724.3	8666.7	8534.5	8380.1	8164.2	7939.0	7903.6	7676.6
7.5°	9310.6	9273.3	9241.7	9174.7	9109.6	8947.7	8748.5	8458.2	8179.1	8108.4	7767.8
10°	9721.8	9684.6	9669.7	9597.2	9550.6	9373.8	9126.3	8811.8	8461.9	8354.0	7905.5
12.5°	10155.5	10116.4	10090.3	10014.0	9958.2	9770.2	9550.6	9198.9	8802.5	8687.1	8102.8
15°	10583.5	10548.1	10488.6	10447.6	10382.5	10187.1	9980.5	9613.9	9219.4	9074.2	8367.0
17.5°	10978.0	10948.2	10903.6	10868.2	10814.2	10611.4	10386.2	10075.4	9671.6	9492.9	8670.4
20°	11268.3	11270.2	11251.6	11233.0	11251.6	11086.0	10903.6	10557.4	10142.4	9934.0	8984.9
22.5°	11517.7	11532.6	11556.8	11584.7	11703.8	11621.9	11402.3	11121.3	10676.5	10430.9	9388.7
25°	11640.5	11651.7	11759.6	11942.0	12210.0	12208.1	12003.4	11800.6	11378.1	11123.2	9950.7
27.5°	11713.1	11728.0	11878.7	12245.4	12718.0	12790.6	12706.9	12617.6	12323.5	12068.6	10693.3
30°	11709.4	11729.9	11962.5	12422.1	13118.2	13486.6	13494.1	13823.5	13683.9	13509.0	11945.7
32.5°	11430.2	11437.7	11761.5	12438.9	13419.6	14104.5	14411.6	15275.1	15706.8	15738.4	14258.9
35°	10767.7	10862.6	11346.5	12288.2	13637.4	14709.3	15504.0	17130.5	18276.8	18330.8	16581.5
37.5°	10291.3	10349.0	10899.9	12018.3	13737.9	15340.2	16758.3	19358.1	20612.4	20480.3	18503.9
40°	9770.2	9840.9	10406.7	11657.3	13674.6	15881.7	18036.8	21496.4	22501.3	22294.7	20141.6
42.5°	9193.3	9252.9	9785.1	11123.2	13473.6	16272.5	19270.6	23344.3	24116.6	23863.5	21630.4
45°	8625.7	8664.8	9169.1	10403.0	13086.5	16510.8	20396.5	25008.1	25549.6	25335.6	23001.9
47.5°	7905.5	7952.0	8569.9	9716.3	12377.5	16503.3	21371.7	26487.6	26939.8	26701.6	24224.6
50°	6096.6	6126.4	7490.5	9092.8	11461.9	16175.8	22207.3	27827.5	28253.6	27981.9	25434.2
52.5°	5523.4	5547.6	5970.1	8316.8	10462.5	15496.5	22756.3	29063.2	29448.4	29158.1	26575.0
55°	5249.9	5266.6	5471.3	6768.4	9586.0	14331.5	22998.2	30207.7	30499.9	30123.9	27501.8
57.5°	4862.8	4896.3	5205.2	5797.0	8728.1	12543.1	22652.0	31132.6	31352.2	30983.7	28404.4
60°	4568.7	4589.2	4849.8	5318.7	7691.5	10542.5	21416.3	31757.9	32115.2	31782.1	29253.0
62.5°	4282.2	4289.6	4507.3	4963.3	6790.8	9048.2	19307.8	31718.8	32584.2	32377.6	29993.7
63°	4220.7	4228.2	4449.6	4898.1	6658.6	8800.6	18846.3	31623.9	32615.8	32427.8	30092.3
65°	3960.2	3971.4	4187.2	4600.4	6085.5	8017.2	16802.9	31039.5	32509.7	32504.2	30224.4
67.5°	3571.3	3591.7	3776.0	4129.5	5303.8	7027.1	13652.3	30416.1	31657.4	31724.4	29485.6
70°	3100.4	3115.3	3323.7	3621.5	4462.7	5966.4	10455.1	28423.0	30090.4	29904.3	27773.5
72.5°	2601.7	2627.7	2826.9	3057.6	3701.5	4922.3	7570.5	25022.9	27738.1	27875.9	24902.0
75°	2270.4	2285.3	2456.5	2620.3	3074.4	3917.4	5063.8	17967.9	24526.1	24561.4	21481.5
77.5°	1883.3	1901.9	2078.7	2233.2	2493.7	2949.7	3493.1	9338.5	17439.4	18429.4	16680.1
80°	1038.4	1205.9	1498.1	1611.6	1805.2	1792.1	2222.0	4935.4	7717.5	9649.3	11017.1
82.5°	174.9	225.2	604.8	789.1	859.8	755.6	1079.4	2717.1	4302.6	4937.2	5929.1
85°	74.4	107.9	316.4	346.1	215.9	210.3	426.2	1421.8	2462.1	2836.2	3055.8
87.5°	9.3	16.7	81.9	107.9	50.2	68.9	85.6	444.8	857.9	986.3	1114.7
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°	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1	7617.1
2.5°	7550.1	7507.3	7408.6	7332.3	7276.5	7200.2	7118.3	7058.8	6995.5	6967.6	6978.7
5°	7561.2	7466.3	7256.0	7090.4	6906.2	6770.3	6593.5	6504.2	6407.4	6359.0	6357.2
7.5°	7591.0	7442.1	7110.9	6850.3	6587.9	6375.8	6145.0	5986.8	5901.2	5837.9	5830.5
10°	7665.4	7453.3	7001.1	6647.5	6308.8	6024.0	5743.0	5538.3	5421.1	5355.9	5365.3
12.5°	7799.4	7494.2	6922.9	6481.8	6046.4	5707.7	5348.5	5108.4	4965.1	4885.1	4907.4
15°	7983.7	7583.6	6842.9	6277.1	5765.4	5367.1	4983.7	4712.0	4552.0	4483.1	4505.5
17.5°	8190.2	7713.8	6787.1	6048.2	5469.5	5019.1	4663.7	4397.5	4129.5	4075.6	4075.6
20°	8421.0	7859.0	6777.7	5830.5	5177.3	4687.8	4278.4	4055.1	3666.2	3534.0	3506.1
22.5°	8726.2	8063.7	6766.6	5631.4	4866.5	4345.4	3843.0	3491.2	2986.9	2759.9	2737.5
25°	9146.8	8346.6	6785.2	5467.6	4583.6	3960.2	3243.7	2679.8	2255.5	1970.8	1955.9
27.5°	9710.7	8724.3	6844.7	5315.0	4300.8	3485.6	2512.3	1911.2	1583.7	1328.8	1252.5
30°	10777.0	9321.7	6949.0	5179.2	3971.4	2849.2	1786.6	1293.4	1058.9	882.1	843.0
32.5°	12814.8	10821.7	7092.3	5028.4	3565.7	2099.2	1192.9	863.5	673.7	571.3	593.7
35°	14847.0	12692.0	7775.2	4807.0	3031.6	1397.6	796.5	550.9	424.3	420.6	444.8
37.5°	16678.2	14346.4	8698.3	4559.4	2316.9	939.8	478.3	366.6	355.5	387.1	435.5
40°	18196.8	15690.1	9478.1	4213.3	1591.2	575.0	312.6	333.1	316.4	329.4	323.8
42.5°	19607.5	16899.7	10110.8	3820.6	937.9	331.3	271.7	308.9	284.7	273.6	251.2
45°	20876.6	18040.5	10429.0	3202.8	547.1	264.3	247.5	292.2	275.4	255.0	221.5
47.5°	22032.3	19041.7	10637.5	2357.9	314.5	230.8	230.8	262.4	258.7	234.5	215.9
50°	23230.8	20020.6	10617.0	1447.9	266.1	212.2	219.6	219.6	232.6	182.4	165.6
52.5°	24289.7	20900.8	10192.7	820.7	245.7	201.0	199.1	178.7	189.8	141.4	132.1
55°	25149.5	21585.7	9479.9	541.5	232.6	199.1	174.9	154.5	145.2	102.4	106.1
57.5°	25994.4	22237.0	8389.4	428.0	241.9	191.7	160.0	132.1	113.5	80.0	76.3
60°	26809.5	22756.3	7233.7	385.2	255.0	191.7	132.1	111.7	76.3	61.4	54.0
62.5°	27302.7	22869.8	5955.2	348.0	262.4	178.7	119.1	91.2	55.8	40.9	37.2
63°	27338.0	22836.3	5728.1	342.4	264.3	178.7	119.1	87.5	54.0	37.2	33.5
65°	27284.1	22413.8	4842.3	323.8	269.8	171.2	113.5	70.7	42.8	26.1	22.3
67.5°	26381.5	21001.3	3589.9	303.3	258.7	169.4	104.2	57.7	33.5	16.7	13.0
70°	24172.5	18809.1	2398.8	269.8	249.4	165.6	122.8	48.4	27.9	9.3	7.4
72.5°	21086.9	16443.8	1606.0	221.5	217.7	135.9	74.4	40.9	20.5	3.7	0.0
75°	17822.8	13233.5	993.8	169.4	176.8	115.4	59.6	35.4	16.7	0.0	0.0
77.5°	13873.7	9775.8	707.2	107.9	124.7	98.6	50.2	29.8	13.0	0.0	0.0
80°	9465.0	6625.1	511.8	59.6	65.1	65.1	40.9	22.3	7.4	0.0	0.0
82.5°	5489.9	3712.7	260.5	29.8	27.9	33.5	18.6	11.2	1.9	0.0	0.0
85°	2678.0	1645.1	44.7	16.7	14.9	14.9	7.4	0.0	0.0	0.0	0.0
87.5°	908.2	426.2	5.6	7.4	5.6	1.9	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)