

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: P285808

Luminaire Tested: **PRV-XL-C150-D-UNV-T3-BZ-7030-HSS**

Issue Date: 2/13/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P285808  
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-C150-D-UNV-T3-BZ-7030-HSS  
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K 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: 36707 lumens  
Efficiency: N/A  
Efficacy: 128.8 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

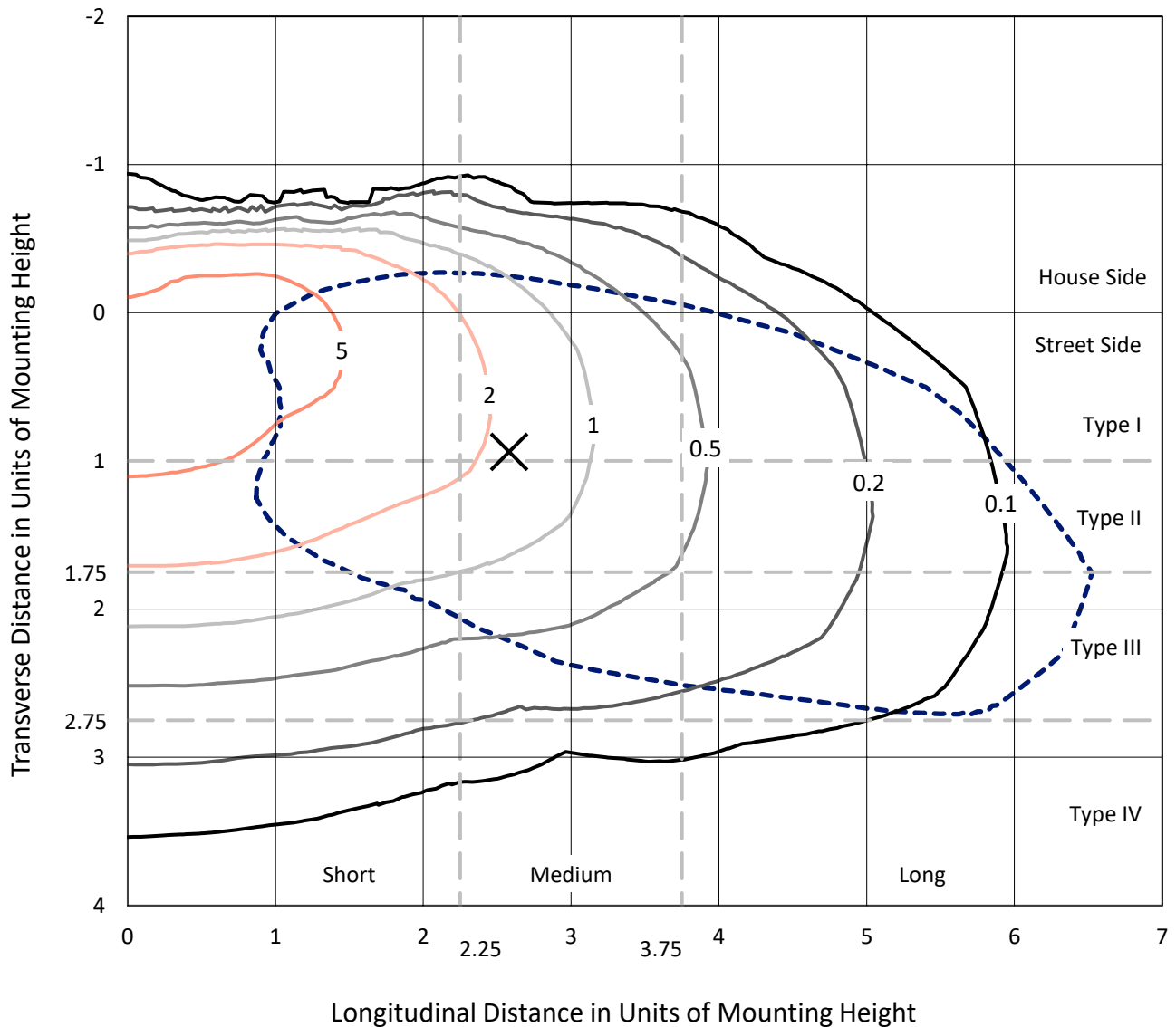
Input Watts (W): 285  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

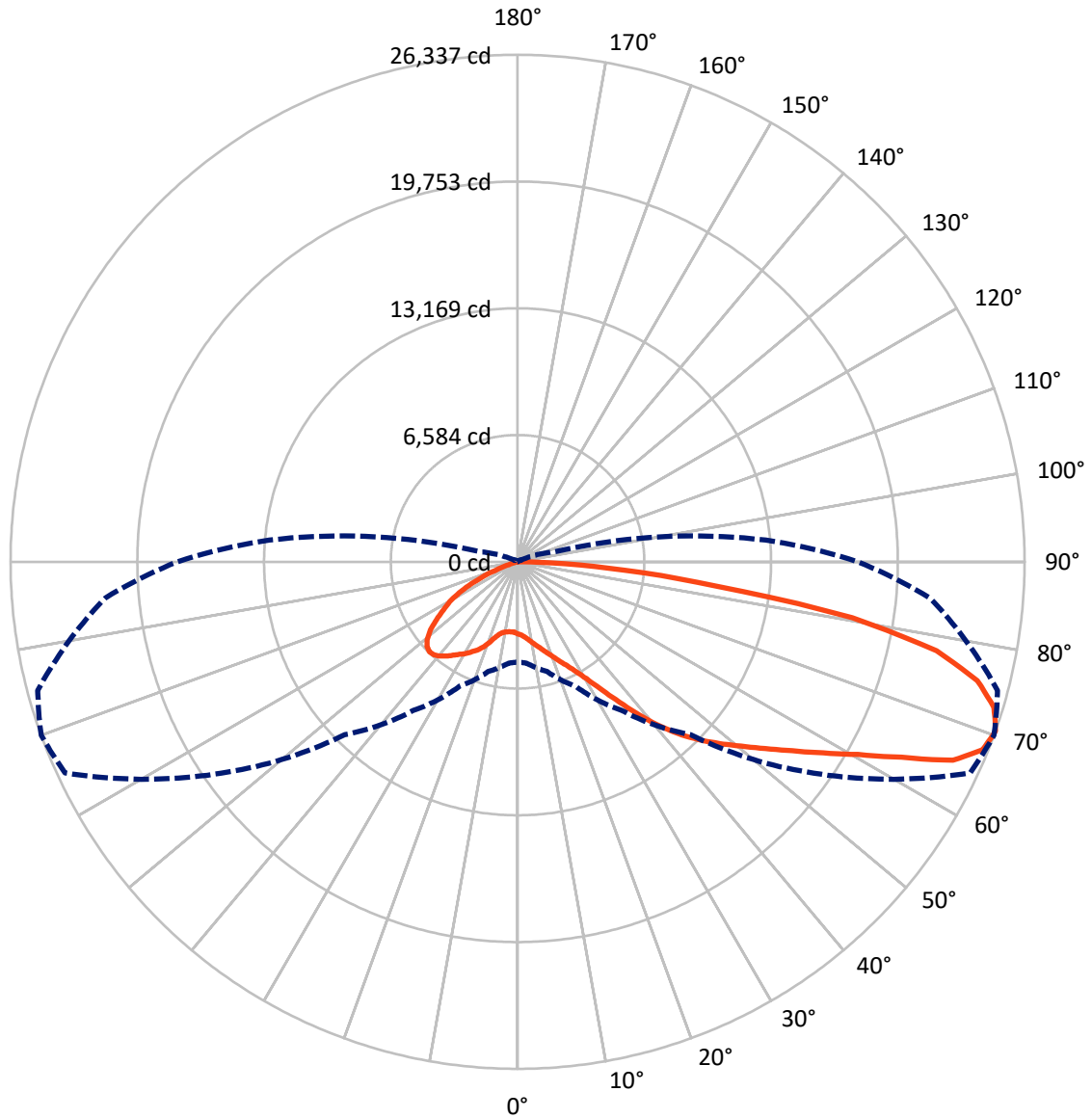
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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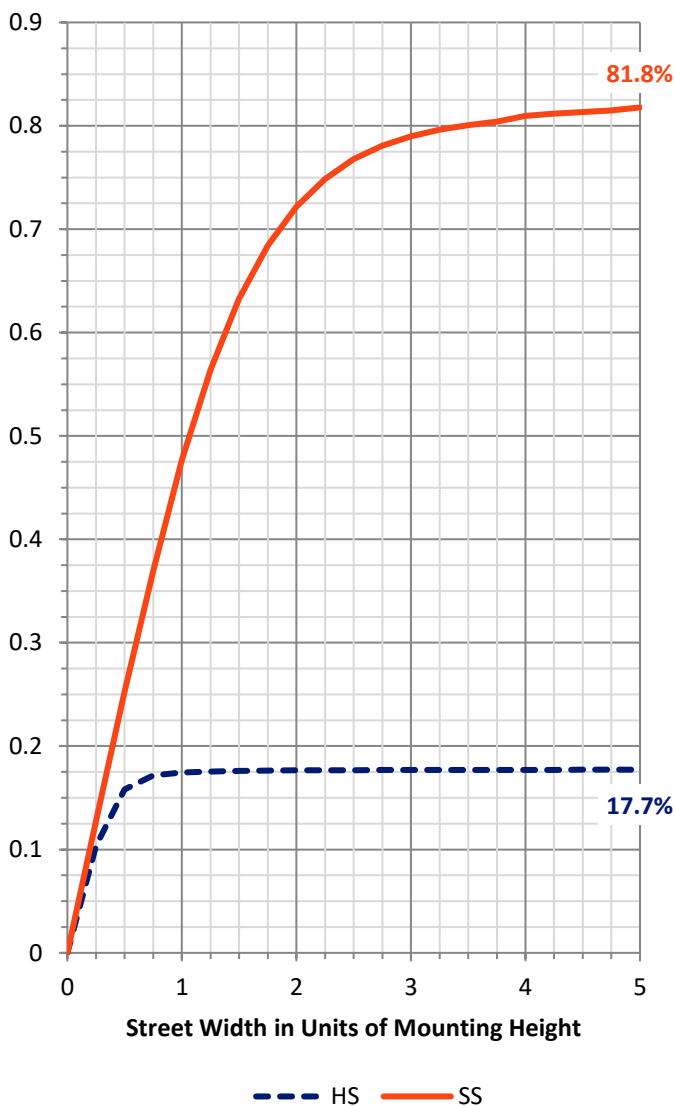
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6577.6	0.0	6577.6
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	30129.4	0.0	30129.4
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	36707.0	0.0	36707.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.6	1.0
10°-20°	1139.7	3.1
20°-30°	2075.3	5.7
30°-40°	3528.3	9.6
40°-50°	5549.9	15.1
50°-60°	7491.7	20.4
60°-70°	8764.5	23.9
70°-80°	6521.7	17.8
80°-90°	1273.2	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°	36707.0	100.0
0°-180°	36707.0	100.0

**Coefficient of Utilization**

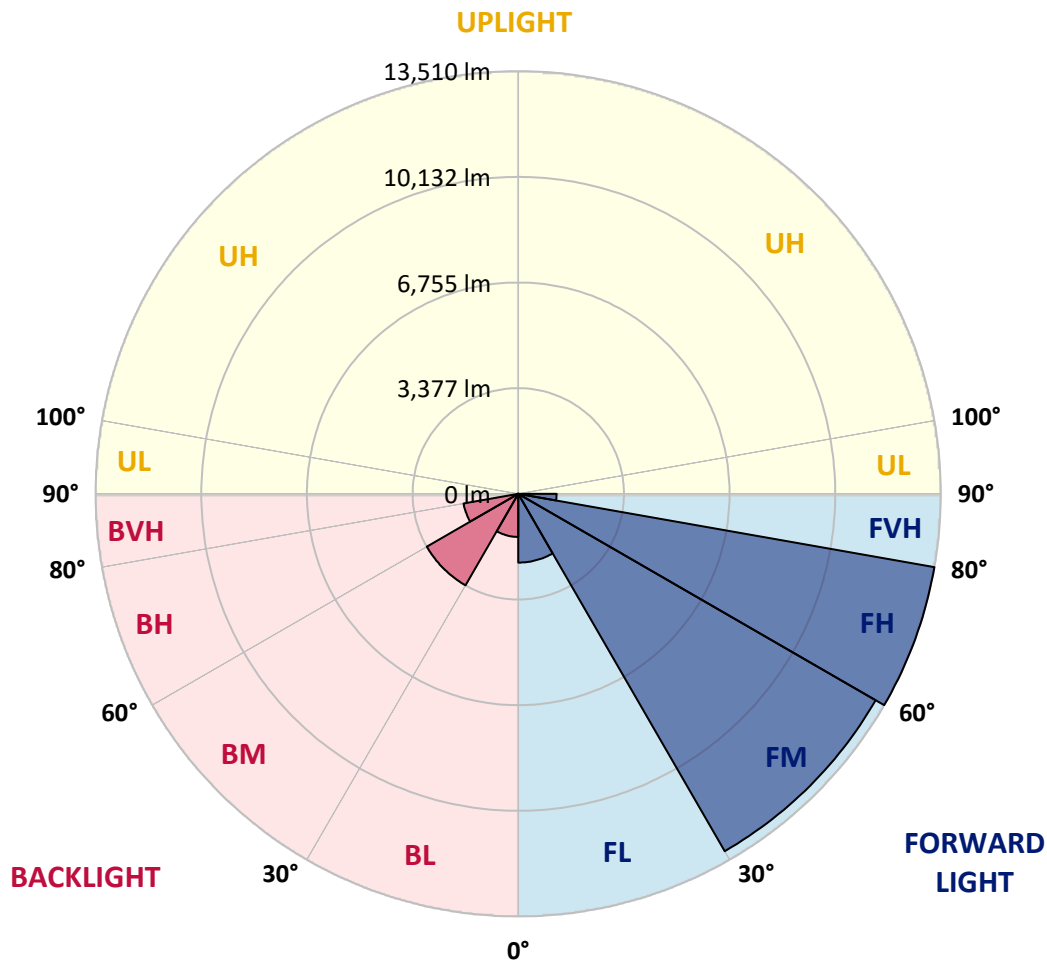


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2198.9	6.0			
FM (30°-60°)	13194.0	35.9			
FH (60°-80°)	13509.9	36.8			G5
FVH (80°-90°)	1226.5	3.3			G5
BL (0°-30°)	1378.7	3.8	B3/2500		
BM (30°-60°)	3375.9	9.2	B3/5000		
BH (60°-80°)	1776.4	4.8	B3/2500		G3/2500
BVH (80°-90°)	46.7	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°	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7
2.5°	3961.9	3958.8	3965.0	3949.5	3958.8	3929.4	3903.1	3866.1	3808.9	3788.8	3750.1
5°	4155.1	4158.2	4156.7	4145.8	4131.9	4101.0	4048.5	3997.4	3929.4	3897.0	3821.2
7.5°	4320.5	4322.1	4328.2	4325.2	4317.4	4277.2	4229.3	4164.4	4082.5	4040.7	3937.2
10°	4451.9	4450.4	4459.6	4473.6	4504.5	4473.6	4410.2	4357.6	4269.5	4213.9	4085.6
12.5°	4538.5	4527.7	4553.9	4592.6	4648.2	4652.9	4611.1	4557.0	4479.7	4414.8	4271.1
15°	4578.7	4574.0	4621.9	4702.3	4782.7	4809.0	4802.8	4762.6	4705.4	4640.5	4484.4
17.5°	4673.0	4671.4	4703.9	4798.2	4892.5	4958.9	5026.9	5020.8	4968.2	4921.8	4759.5
20°	4826.0	4829.1	4829.1	4911.0	5014.6	5132.1	5266.5	5308.3	5266.5	5238.7	5082.6
22.5°	5013.0	4999.1	4989.8	5057.9	5184.6	5348.5	5538.6	5615.9	5609.7	5581.9	5487.6
25°	5275.8	5244.9	5178.4	5263.5	5419.6	5611.3	5833.9	5963.7	5974.5	5982.3	6050.3
27.5°	5693.2	5691.6	5578.8	5585.0	5691.6	5914.2	6186.3	6410.4	6441.4	6527.9	6761.3
30°	6534.1	6449.1	6319.2	6112.1	6076.5	6286.8	6611.4	6954.6	7042.7	7307.0	7589.9
32.5°	7320.9	7257.5	7166.3	6926.7	6634.6	6711.9	7081.3	7589.9	7821.8	8348.9	8607.0
35°	7996.4	7964.0	7896.0	7753.7	7489.4	7290.0	7593.0	8296.3	8784.8	9557.7	9783.4
37.5°	8656.5	8631.8	8586.9	8461.7	8296.3	7998.0	8188.1	9129.5	9924.0	10829.9	10945.8
40°	9236.2	9228.4	9267.1	9189.8	9117.1	8931.6	8876.0	10009.1	11114.3	12069.6	12041.8
42.5°	9743.2	9730.8	9919.4	9817.4	9904.0	9832.8	9716.9	10831.4	12193.3	13086.8	12992.5
45°	10081.7	10075.5	10274.9	10377.0	10621.2	10673.8	10604.2	11684.7	13176.4	14018.9	13811.7
47.5°	10339.9	10322.9	10432.6	10825.3	11276.6	11383.3	11517.8	12636.9	14100.8	14842.8	14592.4
50°	10480.5	10486.7	10712.4	11242.6	11910.4	12156.2	12439.1	13768.5	15040.7	15725.4	15311.2
52.5°	10571.7	10638.2	10970.6	11609.0	12521.0	12952.3	13276.9	14991.2	16105.7	16558.6	16116.5
55°	10636.7	10754.1	11086.5	11806.8	12902.8	13617.0	14091.5	16280.4	17317.6	17603.6	16969.8
57.5°	10217.8	10343.0	10902.5	11842.4	13218.2	14178.1	15025.2	17660.8	18735.1	18761.4	17762.8
60°	9533.0	9610.2	10326.0	11624.4	13173.3	14694.4	16170.6	19296.2	20314.9	20301.0	18742.8
62.5°	8825.0	8865.2	9591.7	11049.4	12919.8	14884.5	17262.0	21494.4	22369.3	21956.6	19741.4
65°	7889.8	7934.6	8684.3	10100.3	12214.9	14756.2	18195.6	23799.2	24848.8	24190.3	20707.6
67.5°	6671.7	6756.7	7449.2	8764.7	11067.9	14079.2	18906.7	25379.0	26054.5	25477.9	21384.6
70°	5203.2	5278.9	5897.2	7137.0	9413.9	12698.8	19237.5	25935.5	26337.4	25808.7	21499.0
72.5°	3705.3	3760.9	4034.5	5071.8	7140.1	10611.9	18923.7	25668.0	25876.7	25216.7	20723.0
75°	2821.1	2776.3	2938.6	3331.2	4176.8	7456.9	17014.6	24459.2	24672.5	23944.5	19209.7
77.5°	2042.0	2006.5	2201.2	2505.7	2913.8	3505.9	11959.9	21976.7	22251.8	21656.7	16640.6
80°	1201.1	1252.1	1510.2	1799.3	2123.9	2335.7	5639.1	16418.0	17629.9	17387.2	12131.5
82.5°	228.8	247.3	627.6	953.8	1170.2	1238.2	2134.8	9030.6	10350.7	10615.0	6408.9
85°	149.9	162.3	375.6	383.4	374.1	479.2	862.6	4351.4	5588.1	5651.5	2814.9
87.5°	69.6	77.3	114.4	165.4	210.2	252.0	284.4	1168.6	1726.7	1766.9	556.5
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°	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7	3751.7
2.5°	3730.0	3714.6	3682.1	3654.3	3635.7	3624.9	3563.1	3552.3	3529.1	3512.1	3504.3
5°	3785.7	3756.3	3677.5	3623.4	3553.8	3496.6	3393.0	3340.5	3309.6	3277.1	3269.4
7.5°	3880.0	3832.0	3708.4	3611.0	3492.0	3388.4	3243.1	3159.6	3100.9	3054.5	3049.9
10°	4012.9	3937.2	3759.4	3617.2	3445.6	3303.4	3122.5	2988.0	2906.1	2845.8	2842.7
12.5°	4178.3	4074.7	3855.2	3666.6	3445.6	3249.3	3034.4	2855.1	2734.5	2652.6	2643.3
15°	4385.4	4261.8	4014.4	3782.6	3521.3	3270.9	2974.1	2733.0	2556.8	2425.4	2419.2
17.5°	4643.6	4515.3	4274.1	4012.9	3665.1	3304.9	2929.3	2589.2	2334.2	2178.0	2161.0
20°	4969.8	4909.5	4662.1	4280.3	3813.5	3321.9	2828.8	2389.8	2043.6	1842.6	1816.3
22.5°	5436.6	5402.6	5048.6	4509.1	3898.5	3269.4	2663.4	2071.4	1650.9	1434.5	1414.4
25°	6020.9	5903.4	5394.8	4679.1	3914.0	3153.4	2383.6	1664.8	1194.9	980.0	972.3
27.5°	6629.9	6416.6	5694.7	4798.2	3869.1	2920.0	1991.0	1184.1	745.1	607.5	609.0
30°	7398.2	6993.2	6034.8	4911.0	3765.6	2603.1	1476.2	737.3	468.4	384.9	374.1
32.5°	8284.0	7722.8	6374.9	4955.8	3572.3	2154.8	936.8	452.9	293.7	250.4	245.8
35°	9318.1	8625.6	6812.3	4960.5	3253.9	1601.5	561.1	265.9	199.4	201.0	204.0
37.5°	10397.1	9582.4	7345.7	4904.8	2856.6	1001.7	316.9	171.6	171.6	204.0	214.9
40°	11374.0	10497.5	7911.4	4779.6	2297.1	582.8	179.3	148.4	157.7	191.7	201.0
42.5°	12270.6	11289.0	8429.3	4584.8	1640.1	315.3	154.6	134.5	142.2	157.7	162.3
45°	13046.6	11976.9	8801.8	4271.1	995.5	194.8	142.2	122.1	120.6	131.4	134.5
47.5°	13715.9	12592.1	9053.8	3822.8	520.9	185.5	137.6	111.3	103.6	108.2	109.8
50°	14402.2	13048.1	9148.1	3193.6	267.4	174.7	128.3	103.6	95.8	109.8	111.3
52.5°	15096.3	13732.9	9160.4	2314.1	211.8	157.7	117.5	95.8	92.7	122.1	126.8
55°	15771.8	14232.2	8982.7	1340.2	205.6	146.9	106.7	86.6	89.7	92.7	92.7
57.5°	16484.4	14830.4	8608.6	585.9	199.4	134.5	98.9	78.8	66.5	74.2	77.3
60°	17248.1	15346.7	7855.8	338.5	190.1	120.6	85.0	64.9	55.6	55.6	60.3
62.5°	18019.4	15725.4	6623.8	247.3	180.9	112.8	74.2	57.2	46.4	46.4	49.5
65°	18520.3	15473.5	5108.9	219.5	174.7	102.0	64.9	49.5	37.1	35.6	38.6
67.5°	18429.0	14508.9	3598.6	196.3	159.2	92.7	57.2	43.3	32.5	26.3	27.8
70°	17673.2	12932.2	1995.6	184.0	142.2	85.0	51.0	38.6	26.3	17.0	17.0
72.5°	16280.4	10867.0	766.7	165.4	126.8	74.2	46.4	37.1	23.2	9.3	7.7
75°	14201.3	8270.0	276.7	139.1	105.1	68.0	44.8	38.6	21.6	3.1	0.0
77.5°	11134.4	4628.1	163.9	103.6	78.8	58.7	47.9	38.6	12.4	0.0	0.0
80°	5980.7	1671.0	115.9	66.5	52.6	43.3	43.3	30.9	6.2	0.0	0.0
82.5°	2482.6	375.6	74.2	37.1	35.6	27.8	27.8	13.9	1.5	0.0	0.0
85°	703.3	109.8	34.0	20.1	20.1	15.5	7.7	0.0	0.0	0.0	0.0
87.5°	60.3	23.2	9.3	10.8	7.7	3.1	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)