

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: P381192

Luminaire Tested: **PRV-XL-PA3A-740-U-T2R-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-XL-PA3A-740-U-T2R-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19521.1 lumens  
Efficiency: N/A  
Efficacy: 113.5 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

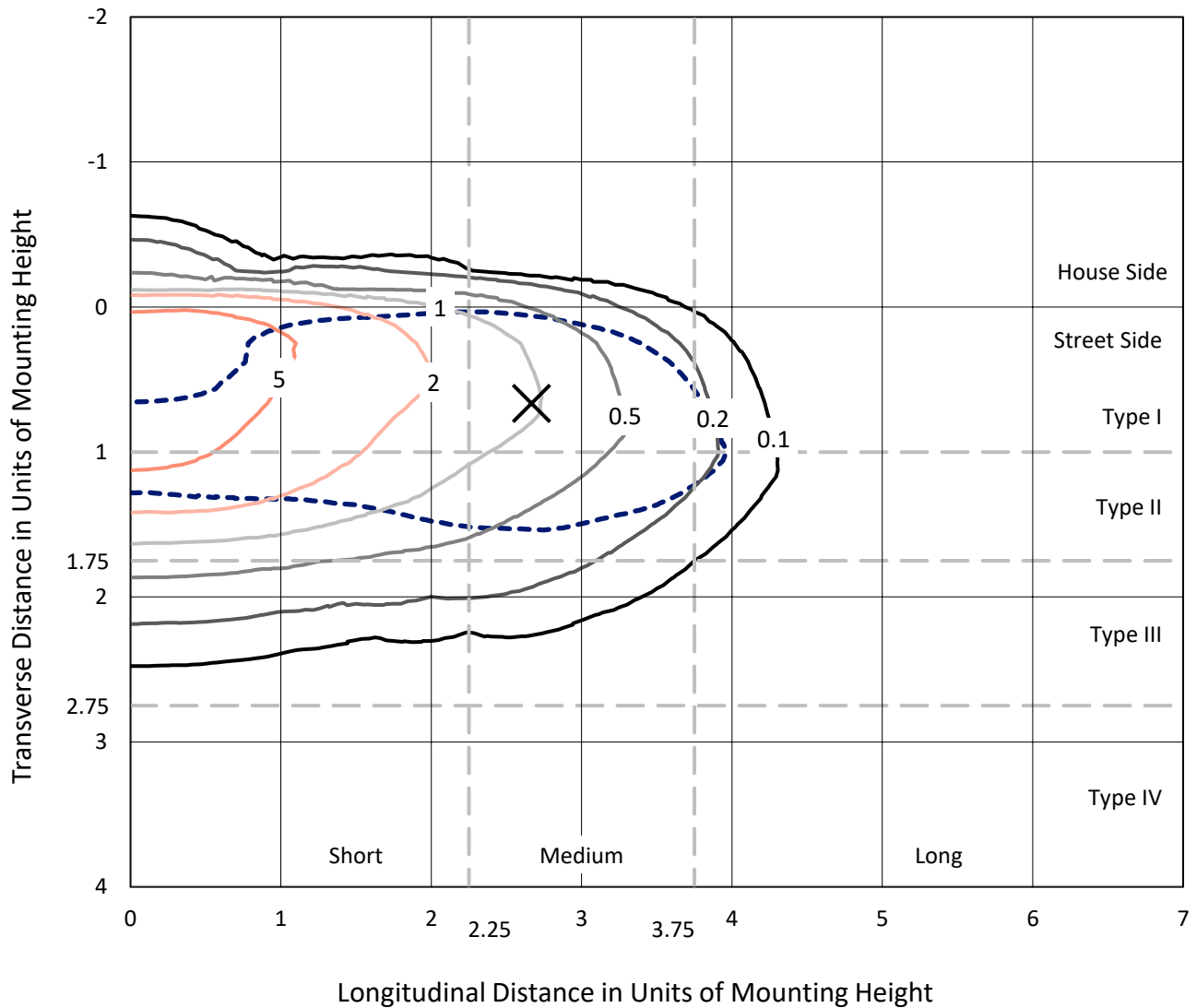
Input Watts (W): 172  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

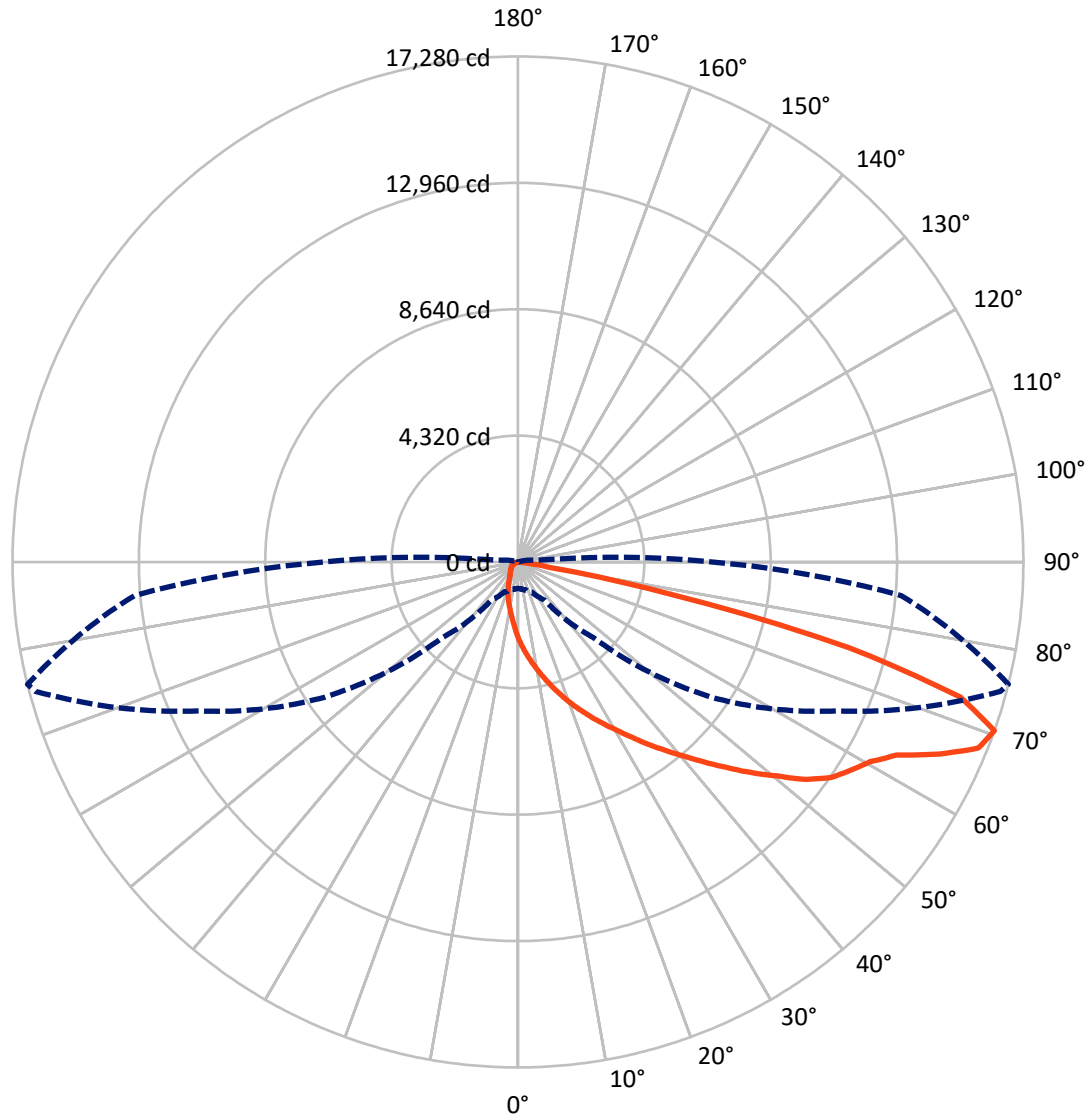
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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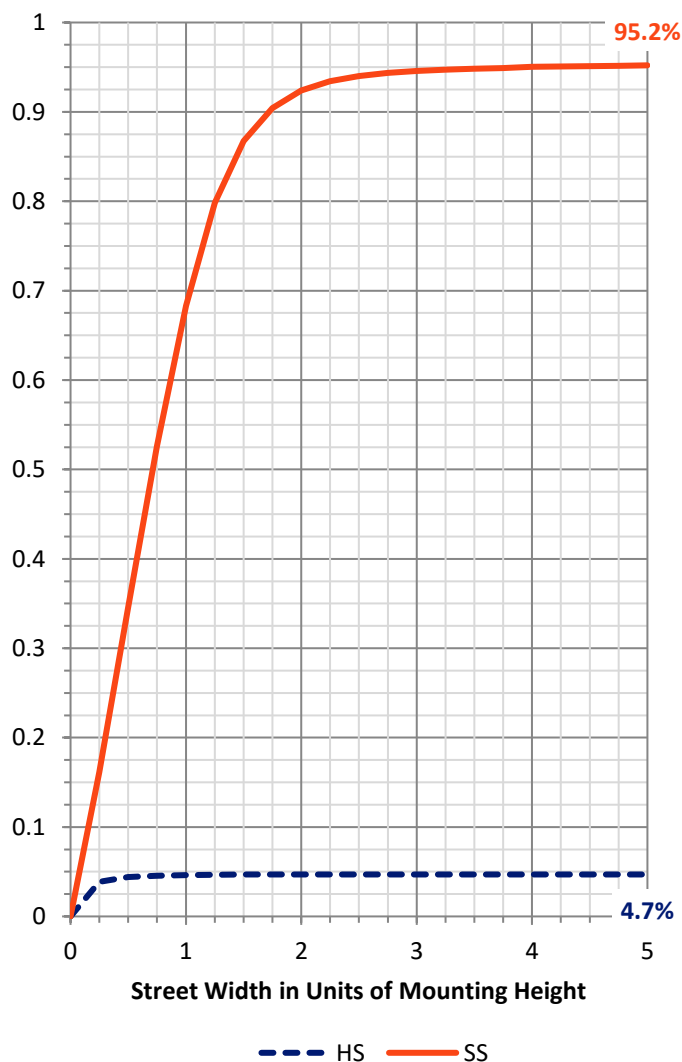
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	920.7	0.0	920.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	18600.3	0.0	18600.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	19521.1	0.0	19521.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.2	1.3
10°-20°	794.5	4.1
20°-30°	1479.6	7.6
30°-40°	2617.2	13.4
40°-50°	4002.2	20.5
50°-60°	4537.6	23.2
60°-70°	3889.8	19.9
70°-80°	1884.0	9.7
80°-90°	69.9	0.4
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°	19521.1	100.0
0°-180°	19521.1	100.0

**Coefficient of Utilization**

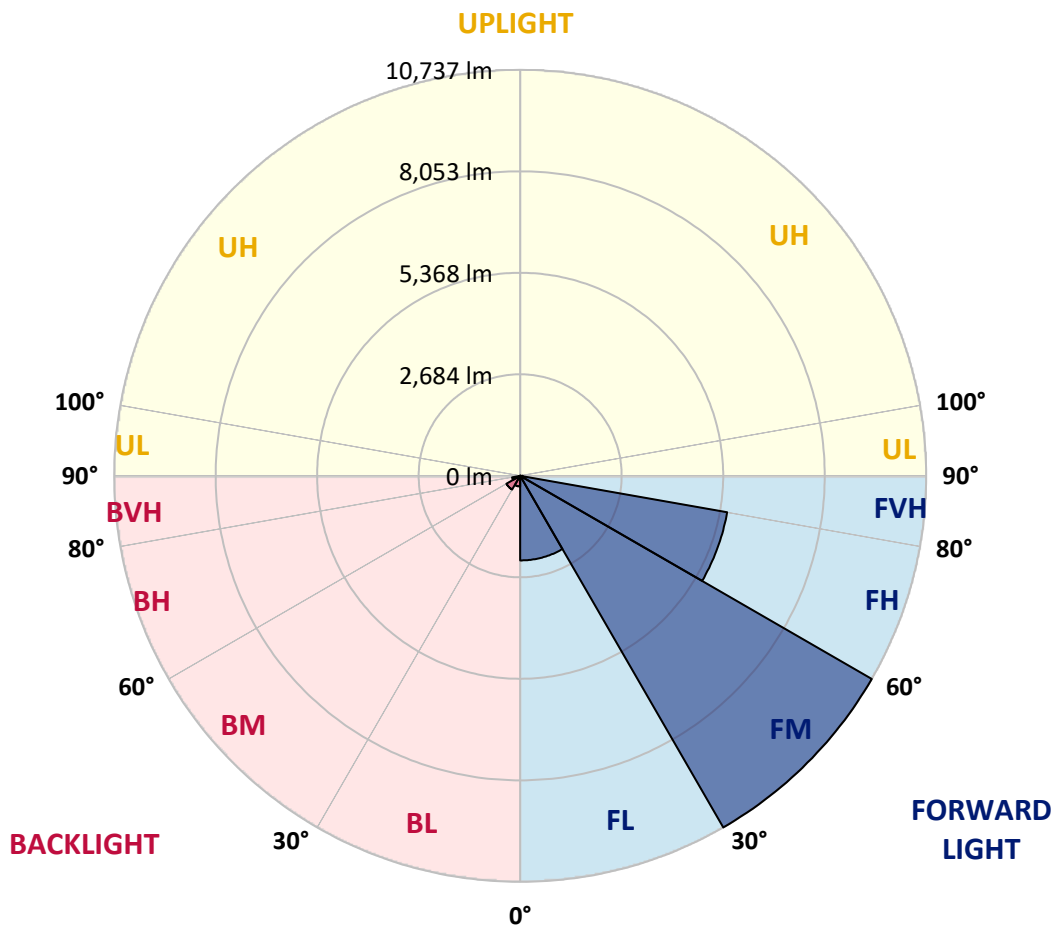


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2237.9	11.5			
FM (30°-60°)	10736.7	55.0			
FH (60°-80°)	5557.1	28.5			G3/7500
FVH (80°-90°)	68.7	0.4			G1/100
BL (0°-30°)	282.4	1.4	B1/500		
BM (30°-60°)	420.3	2.2	B1/1000		
BH (60°-80°)	216.8	1.1	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0
2.5°	3571.8	3552.3	3532.8	3458.0	3389.8	3328.0	3211.0	3058.3	2921.8	2892.5	2733.3
5°	4195.8	4173.0	4143.8	4069.0	3981.3	3877.3	3705.0	3471.0	3230.5	3178.5	2882.8
7.5°	4618.3	4598.8	4556.5	4520.8	4433.0	4332.3	4140.5	3867.5	3536.0	3471.0	3055.0
10°	4907.5	4894.5	4888.0	4858.8	4793.8	4712.5	4520.8	4234.8	3844.8	3770.0	3237.0
12.5°	5011.5	5011.5	5044.0	5092.8	5102.5	5076.5	4901.0	4615.0	4169.8	4091.8	3451.5
15°	4871.8	4888.0	4959.5	5115.5	5278.0	5385.3	5274.8	5008.3	4527.3	4442.8	3705.0
17.5°	4832.8	4849.0	4897.8	5034.3	5252.0	5538.0	5593.3	5388.5	4865.3	4793.8	3965.0
20°	4943.3	4959.5	5001.8	5118.8	5284.5	5573.8	5804.5	5755.8	5222.8	5148.0	4228.3
22.5°	5206.5	5216.3	5216.3	5307.3	5453.5	5668.0	5937.8	6103.5	5590.0	5508.8	4488.3
25°	5772.0	5752.5	5674.5	5629.0	5723.3	5898.8	6106.8	6409.0	5999.5	5889.0	4767.8
27.5°	6513.0	6578.0	6389.5	6171.8	6100.3	6201.0	6344.0	6678.8	6396.0	6279.0	5021.3
30°	7517.3	7491.3	7244.3	6932.3	6623.5	6587.8	6636.5	6909.5	6792.5	6682.0	5304.0
32.5°	8342.8	8391.5	8131.5	7751.3	7289.8	7072.0	7020.0	7185.8	7215.0	7143.5	5638.8
35°	9191.0	9243.0	8989.5	8567.0	8017.8	7653.8	7504.3	7527.0	7738.3	7647.3	5989.8
37.5°	9951.5	9997.0	9746.8	9314.5	8765.3	8320.0	8105.5	7930.0	8245.3	8164.0	6360.3
40°	10530.0	10536.5	10367.5	9980.8	9460.8	8999.3	8755.5	8411.0	8781.5	8726.3	6747.0
42.5°	10939.5	10952.5	10829.0	10497.5	10016.5	9587.5	9389.3	8979.8	9399.0	9350.3	7195.5
45°	11131.3	11154.0	11141.0	10835.5	10435.8	10065.3	10000.3	9584.3	10075.0	10029.5	7712.3
47.5°	10949.3	10949.3	11115.0	11072.8	10705.5	10458.5	10533.3	10214.8	10809.5	10767.3	8238.8
50°	10192.0	10201.8	10539.8	11024.0	10809.5	10754.3	10988.3	10832.3	11475.8	11501.8	8869.3
52.5°	8203.0	8186.8	9327.5	10257.0	10738.0	10887.5	11407.5	11462.8	12275.3	12353.3	9496.5
55°	6129.5	6119.8	7211.8	8898.5	10237.5	10819.3	11641.5	12025.1	12957.8	13006.6	9964.5
57.5°	4852.3	4826.3	5427.5	7172.8	9106.5	10513.8	11651.3	12132.3	13338.1	13422.6	10419.5
60°	3731.0	3708.3	4156.8	5336.5	7504.3	9701.3	11371.8	12138.8	13705.3	13854.8	11030.5
62.5°	2668.3	2694.3	3038.8	3828.5	5772.0	8554.0	11007.8	12229.8	14358.6	14527.6	11898.3
65°	1800.5	1787.5	2073.5	2606.5	4104.8	7010.3	10448.8	12421.6	15535.1	15830.8	12938.3
67.5°	1251.3	1261.0	1391.0	1696.5	2606.5	5382.0	9519.3	12528.8	16750.6	16981.3	13666.3
70°	903.5	916.5	988.0	1140.8	1592.5	3649.8	8047.0	12038.1	17078.8	17280.3	13159.3
72.5°	594.8	620.8	728.0	809.3	1017.3	2284.8	5928.0	10370.8	15665.1	15814.6	11040.3
75°	321.8	328.3	468.0	604.5	724.8	1423.5	3536.0	6994.0	11719.6	11670.8	7280.0
77.5°	250.3	260.0	289.3	432.3	487.5	783.3	1397.5	3159.0	5551.0	5401.5	2483.0
80°	152.8	159.3	201.5	256.8	341.3	455.0	409.5	858.0	1127.8	1056.3	364.0
82.5°	91.0	97.5	120.3	214.5	269.8	214.5	143.0	208.0	211.3	208.0	91.0
85°	16.3	16.3	84.5	149.5	143.0	61.8	84.5	68.3	61.8	65.0	19.5
87.5°	0.0	0.0	32.5	45.5	65.0	22.8	32.5	16.3	16.3	16.3	9.8
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°	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0	2613.0
2.5°	2635.8	2525.3	2297.8	2099.5	1901.3	1755.0	1644.5	1530.8	1491.8	1443.0	1417.0
5°	2681.3	2463.5	2011.8	1651.0	1345.5	1111.5	962.0	871.0	812.5	770.3	760.5
7.5°	2749.5	2414.8	1781.0	1293.5	958.8	724.8	601.3	539.5	507.0	487.5	481.0
10°	2830.8	2372.5	1553.5	1007.5	676.0	510.3	442.0	416.0	403.0	396.5	393.3
12.5°	2944.5	2356.3	1361.8	776.8	510.3	419.3	383.5	367.3	357.5	347.8	344.5
15°	3094.0	2362.8	1186.3	601.3	422.5	373.8	344.5	328.3	315.3	305.5	305.5
17.5°	3250.0	2372.5	1014.0	487.5	383.5	341.3	308.8	286.0	276.3	266.5	263.3
20°	3396.3	2369.3	848.3	416.0	347.8	305.5	273.0	250.3	234.0	224.3	224.3
22.5°	3536.0	2349.8	692.3	373.8	318.5	269.8	234.0	211.3	198.3	188.5	188.5
25°	3685.5	2310.8	565.5	341.3	282.8	237.3	201.5	178.8	169.0	159.3	159.3
27.5°	3802.5	2245.8	461.5	312.0	250.3	204.8	172.3	152.8	143.0	136.5	136.5
30°	3929.3	2151.5	383.5	279.5	217.8	175.5	146.3	130.0	120.3	117.0	117.0
32.5°	4069.0	2047.5	328.3	247.0	185.3	149.5	123.5	113.8	104.0	100.8	100.8
35°	4231.5	1956.5	295.8	214.5	162.5	126.8	107.3	97.5	91.0	91.0	91.0
37.5°	4416.8	1862.3	266.5	188.5	139.8	107.3	91.0	87.8	84.5	81.3	81.3
40°	4618.3	1761.5	240.5	165.8	120.3	91.0	78.0	78.0	74.8	74.8	74.8
42.5°	4845.8	1673.8	217.8	146.3	104.0	78.0	68.3	68.3	65.0	65.0	65.0
45°	5092.8	1592.5	198.3	130.0	91.0	68.3	61.8	58.5	55.3	55.3	55.3
47.5°	5385.3	1547.0	182.0	113.8	78.0	58.5	52.0	48.8	45.5	42.3	42.3
50°	5759.0	1566.5	165.8	94.3	68.3	48.8	42.3	39.0	35.8	32.5	32.5
52.5°	6054.8	1556.8	143.0	81.3	55.3	39.0	32.5	29.3	26.0	22.8	22.8
55°	6269.3	1517.8	123.5	68.3	42.3	32.5	26.0	19.5	16.3	16.3	16.3
57.5°	6480.5	1478.8	104.0	55.3	32.5	22.8	16.3	13.0	13.0	13.0	13.0
60°	6808.8	1423.5	91.0	45.5	26.0	16.3	9.8	9.8	6.5	6.5	6.5
62.5°	7208.5	1355.3	74.8	39.0	19.5	13.0	6.5	6.5	0.0	0.0	0.0
65°	7647.3	1235.0	61.8	29.3	16.3	9.8	6.5	0.0	0.0	0.0	0.0
67.5°	7546.5	991.3	52.0	19.5	13.0	6.5	3.3	0.0	0.0	0.0	0.0
70°	6675.5	669.5	42.3	16.3	9.8	6.5	3.3	0.0	0.0	0.0	0.0
72.5°	5229.3	396.5	29.3	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0
75°	3347.5	198.3	19.5	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1121.3	97.5	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	159.3	32.5	6.5	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.8	13.0	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.3	0.0	0.0	0.0	0.0	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)