

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: P381202

Luminaire Tested: **PRV-XL-PA4A-750-U-T2R-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381202  
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-PA4A-750-U-T2R-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

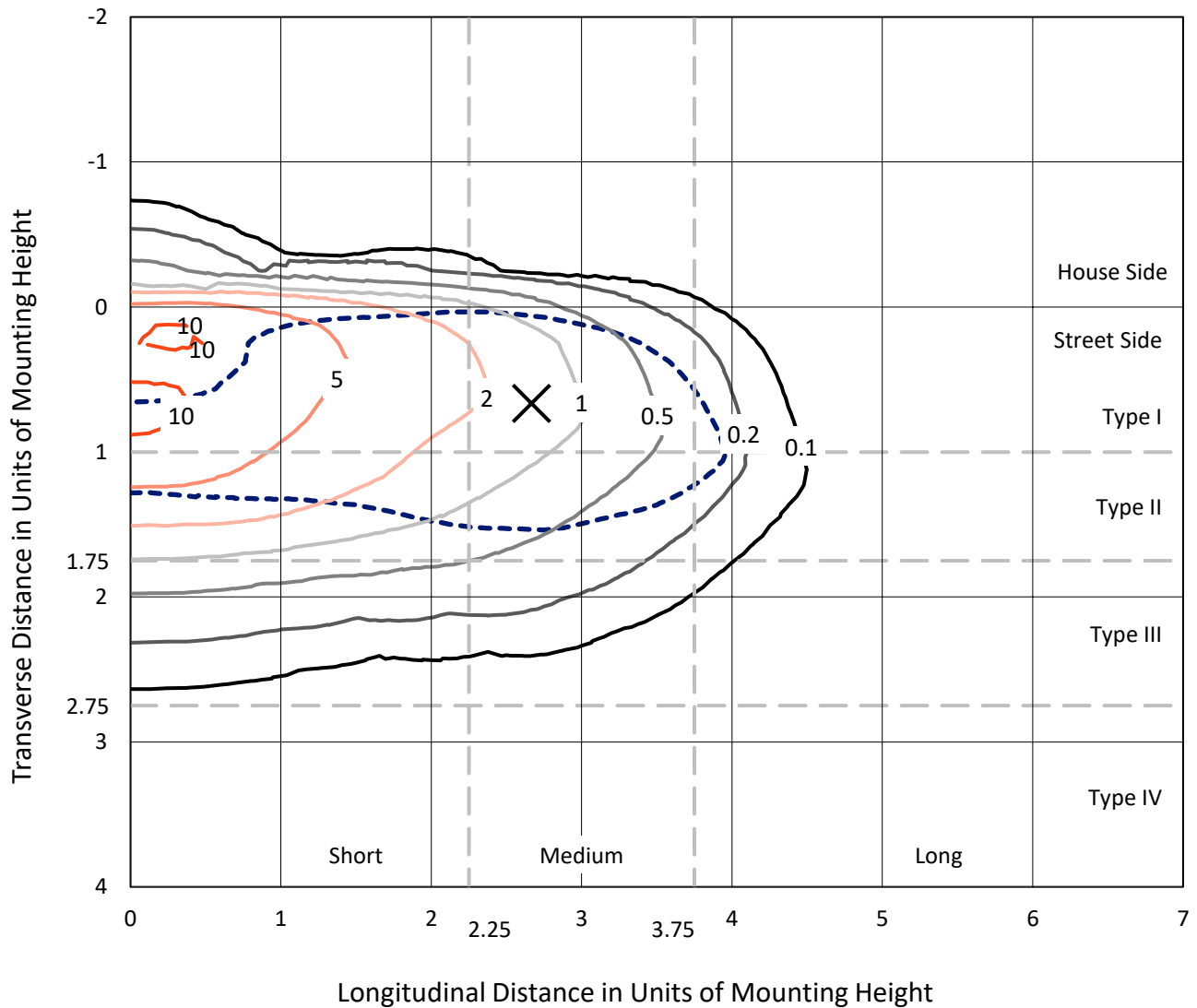
Lumens per Lamp: N/A  
Luminaire Lumens: 26904 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): 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

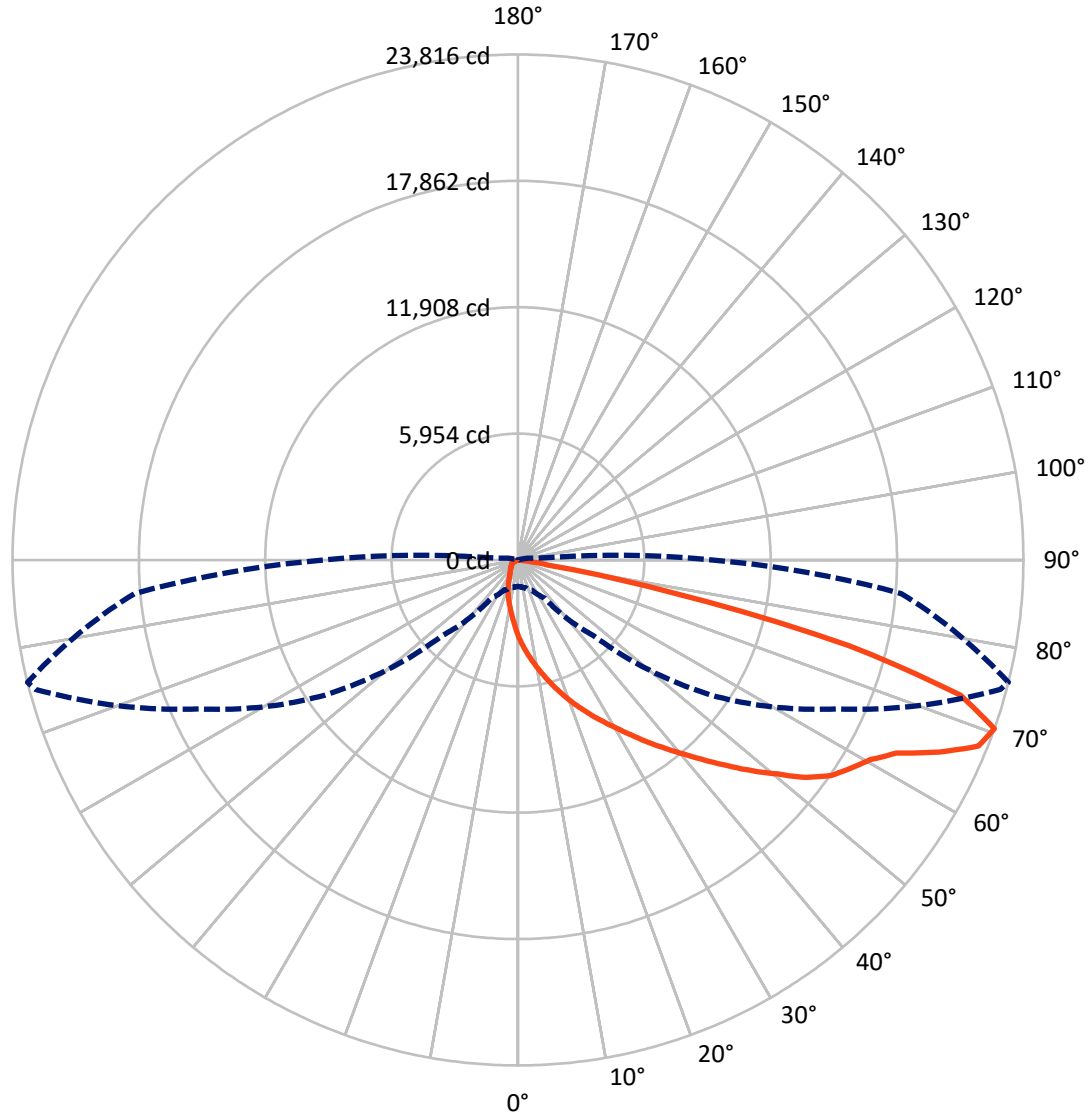
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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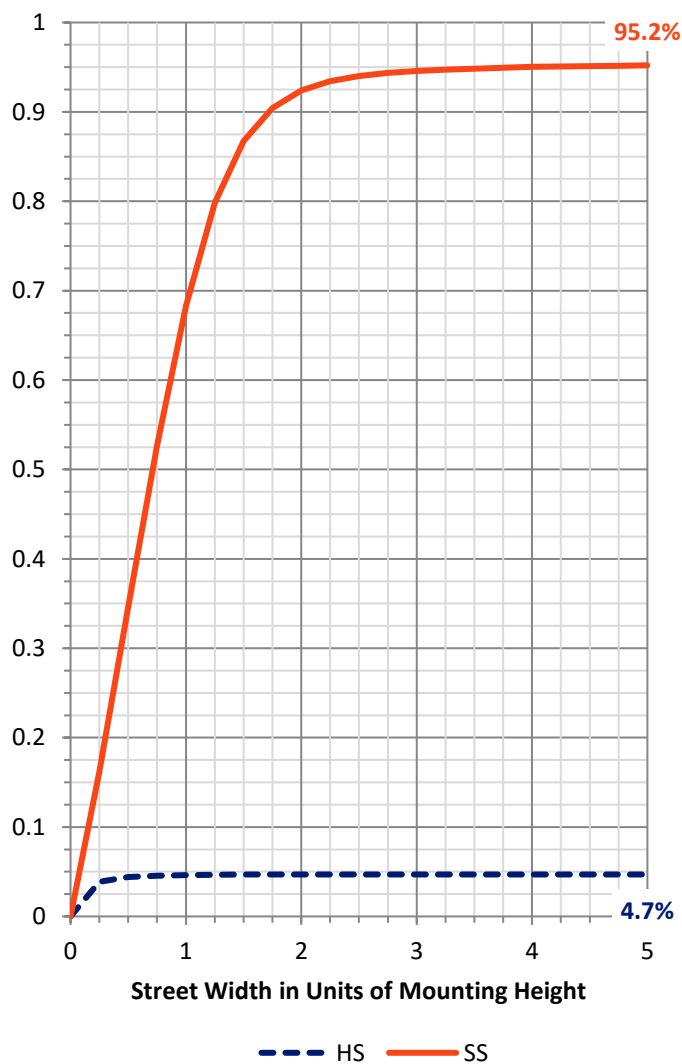
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1268.9	0.0	1268.9
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	25635.1	0.0	25635.1
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	26904.0	0.0	26904.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.3	1.3
10°-20°	1095.0	4.1
20°-30°	2039.3	7.6
30°-40°	3607.0	13.4
40°-50°	5515.9	20.5
50°-60°	6253.7	23.2
60°-70°	5361.0	19.9
70°-80°	2596.6	9.7
80°-90°	96.3	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°	26904.0	100.0
0°-180°	26904.0	100.0

**Coefficient of Utilization**

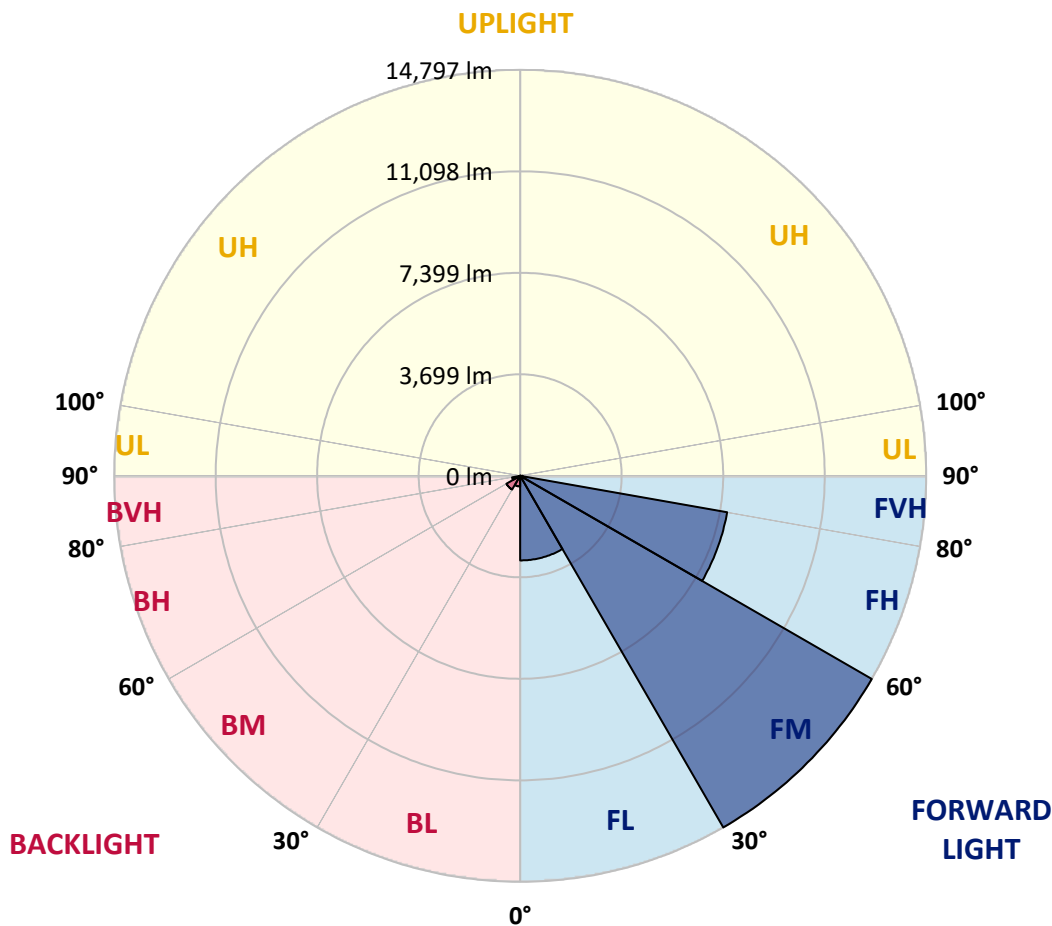


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3084.2	11.5			
FM (30°-60°)	14797.4	55.0			
FH (60°-80°)	7658.8	28.5			G4/12000
FVH (80°-90°)	94.7	0.4			G1/100
BL (0°-30°)	389.2	1.4	B1/500		
BM (30°-60°)	579.2	2.2	B1/1000		
BH (60°-80°)	298.8	1.1	B1/500		G1/500
BVH (80°-90°)	1.7	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-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3
2.5°	4922.6	4895.8	4868.9	4765.9	4671.8	4586.7	4425.4	4214.9	4026.8	3986.5	3767.0
5°	5782.6	5751.3	5711.0	5608.0	5487.0	5343.7	5106.3	4783.8	4452.3	4380.7	3973.0
7.5°	6364.9	6338.1	6279.8	6230.6	6109.6	5970.8	5706.5	5330.2	4873.4	4783.8	4210.4
10°	6763.6	6745.7	6736.7	6696.4	6606.8	6494.8	6230.6	5836.4	5298.9	5195.9	4461.3
12.5°	6906.9	6906.9	6951.7	7018.9	7032.3	6996.5	6754.6	6360.5	5746.8	5639.3	4756.9
15°	6714.3	6736.7	6835.3	7050.3	7274.2	7422.0	7269.7	6902.4	6239.5	6123.1	5106.3
17.5°	6660.6	6683.0	6750.1	6938.3	7238.4	7632.5	7708.7	7426.5	6705.4	6606.8	5464.6
20°	6812.9	6835.3	6893.5	7054.7	7283.2	7681.8	7999.8	7932.7	7198.1	7095.0	5827.4
22.5°	7175.7	7189.1	7189.1	7314.5	7516.1	7811.7	8183.5	8411.9	7704.2	7592.2	6185.8
25°	7955.1	7928.2	7820.7	7758.0	7887.9	8129.7	8416.4	8833.0	8268.6	8116.3	6571.0
27.5°	8976.3	9065.9	8806.1	8506.0	8407.4	8546.3	8743.4	9204.7	8815.1	8653.8	6920.4
30°	10360.4	10324.5	9984.1	9554.1	9128.6	9079.3	9146.5	9522.8	9361.5	9209.2	7310.0
32.5°	11498.1	11565.3	11206.9	10682.9	10046.8	9746.7	9675.1	9903.5	9943.8	9845.3	7771.4
35°	12667.2	12738.8	12389.5	11807.2	11050.2	10548.5	10342.5	10373.8	10665.0	10539.5	8255.2
37.5°	13715.3	13778.0	13433.1	12837.4	12080.4	11466.7	11171.1	10929.2	11363.7	11251.7	8765.8
40°	14512.6	14521.6	14288.6	13755.6	13038.9	12402.9	12067.0	11592.2	12102.8	12026.6	9298.8
42.5°	15077.0	15094.9	14924.7	14467.8	13804.9	13213.6	12940.4	12376.0	12953.8	12886.6	9916.9
45°	15341.2	15372.6	15354.7	14933.6	14382.7	13872.1	13782.5	13209.1	13885.5	13822.8	10629.1
47.5°	15090.4	15090.4	15318.8	15260.6	14754.5	14414.1	14517.1	14078.1	14897.8	14839.6	11354.8
50°	14046.8	14060.2	14526.0	15193.4	14897.8	14821.7	15144.2	14929.2	15816.0	15851.9	12223.7
52.5°	11305.5	11283.1	12855.3	14136.3	14799.3	15005.3	15722.0	15798.1	16917.9	17025.4	13088.2
55°	8447.8	8434.3	9939.3	12264.0	14109.5	14911.2	16044.5	16573.0	17858.6	17925.7	13733.2
57.5°	6687.4	6651.6	7480.3	9885.6	12550.7	14490.2	16057.9	16720.8	18382.6	18499.1	14360.3
60°	5142.1	5110.8	5728.9	7354.8	10342.5	13370.4	15672.7	16729.8	18888.8	19094.8	15202.4
62.5°	3677.4	3713.3	4188.0	5276.5	7955.1	11789.2	15171.0	16855.2	19789.1	20022.0	16398.3
65°	2481.5	2463.6	2857.7	3592.3	5657.2	9661.6	14400.6	17119.5	21410.6	21818.2	17831.7
67.5°	1724.5	1737.9	1917.1	2338.1	3592.3	7417.5	13119.6	17267.3	23085.8	23403.8	18835.0
70°	1245.2	1263.1	1361.7	1572.2	2194.8	5030.1	11090.5	16590.9	23538.2	23815.9	18136.3
72.5°	819.7	855.5	1003.3	1115.3	1402.0	3148.9	8170.1	14293.1	21589.7	21795.8	15215.8
75°	443.4	452.4	645.0	833.1	998.9	1961.9	4873.4	9639.2	16152.0	16084.8	10033.4
77.5°	344.9	358.3	398.6	595.7	671.9	1079.5	1926.1	4353.8	7650.5	7444.4	3422.1
80°	210.5	219.5	277.7	353.9	470.3	627.1	564.4	1182.5	1554.3	1455.7	501.7
82.5°	125.4	134.4	165.7	295.6	371.8	295.6	197.1	286.7	291.1	286.7	125.4
85°	22.4	22.4	116.5	206.0	197.1	85.1	116.5	94.1	85.1	89.6	26.9
87.5°	0.0	0.0	44.8	62.7	89.6	31.4	44.8	22.4	22.4	22.4	13.4
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°	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3	3601.3
2.5°	3632.6	3480.3	3166.8	2893.6	2620.3	2418.8	2266.5	2109.7	2056.0	1988.8	1952.9
5°	3695.3	3395.2	2772.6	2275.4	1854.4	1531.9	1325.8	1200.4	1119.8	1061.6	1048.1
7.5°	3789.4	3328.0	2454.6	1782.7	1321.4	998.9	828.7	743.5	698.8	671.9	662.9
10°	3901.4	3269.8	2141.1	1388.6	931.7	703.2	609.2	573.3	555.4	546.5	542.0
12.5°	4058.2	3247.4	1876.8	1070.5	703.2	577.8	528.5	506.1	492.7	479.3	474.8
15°	4264.2	3256.4	1634.9	828.7	582.3	515.1	474.8	452.4	434.5	421.0	421.0
17.5°	4479.2	3269.8	1397.5	671.9	528.5	470.3	425.5	394.2	380.7	367.3	362.8
20°	4680.8	3265.3	1169.1	573.3	479.3	421.0	376.3	344.9	322.5	309.1	309.1
22.5°	4873.4	3238.5	954.1	515.1	439.0	371.8	322.5	291.1	273.2	259.8	259.8
25°	5079.4	3184.7	779.4	470.3	389.7	327.0	277.7	246.4	232.9	219.5	219.5
27.5°	5240.7	3095.1	636.0	430.0	344.9	282.2	237.4	210.5	197.1	188.1	188.1
30°	5415.3	2965.2	528.5	385.2	300.1	241.9	201.6	179.2	165.7	161.3	161.3
32.5°	5608.0	2821.9	452.4	340.4	255.3	206.0	170.2	156.8	143.3	138.9	138.9
35°	5831.9	2696.5	407.6	295.6	224.0	174.7	147.8	134.4	125.4	125.4	125.4
37.5°	6087.2	2566.6	367.3	259.8	192.6	147.8	125.4	120.9	116.5	112.0	112.0
40°	6364.9	2427.7	331.5	228.4	165.7	125.4	107.5	107.5	103.0	103.0	103.0
42.5°	6678.5	2306.8	300.1	201.6	143.3	107.5	94.1	94.1	89.6	89.6	89.6
45°	7018.9	2194.8	273.2	179.2	125.4	94.1	85.1	80.6	76.1	76.1	76.1
47.5°	7422.0	2132.1	250.8	156.8	107.5	80.6	71.7	67.2	62.7	58.2	58.2
50°	7937.1	2159.0	228.4	129.9	94.1	67.2	58.2	53.8	49.3	44.8	44.8
52.5°	8344.7	2145.5	197.1	112.0	76.1	53.8	44.8	40.3	35.8	31.4	31.4
55°	8640.4	2091.8	170.2	94.1	58.2	44.8	35.8	26.9	22.4	22.4	22.4
57.5°	8931.5	2038.0	143.3	76.1	44.8	31.4	22.4	17.9	17.9	17.9	17.9
60°	9383.9	1961.9	125.4	62.7	35.8	22.4	13.4	13.4	9.0	9.0	9.0
62.5°	9934.9	1867.8	103.0	53.8	26.9	17.9	9.0	9.0	0.0	0.0	0.0
65°	10539.5	1702.1	85.1	40.3	22.4	13.4	9.0	0.0	0.0	0.0	0.0
67.5°	10400.7	1366.2	71.7	26.9	17.9	9.0	4.5	0.0	0.0	0.0	0.0
70°	9200.3	922.7	58.2	22.4	13.4	9.0	4.5	0.0	0.0	0.0	0.0
72.5°	7207.0	546.5	40.3	17.9	9.0	4.5	0.0	0.0	0.0	0.0	0.0
75°	4613.6	273.2	26.9	13.4	9.0	4.5	0.0	0.0	0.0	0.0	0.0
77.5°	1545.3	134.4	17.9	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	219.5	44.8	9.0	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.3	17.9	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.9	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.0	4.5	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)