

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: P381387

Luminaire Tested: **PRV-XL-PA4B-740-U-T2U-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4B-740-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27644 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

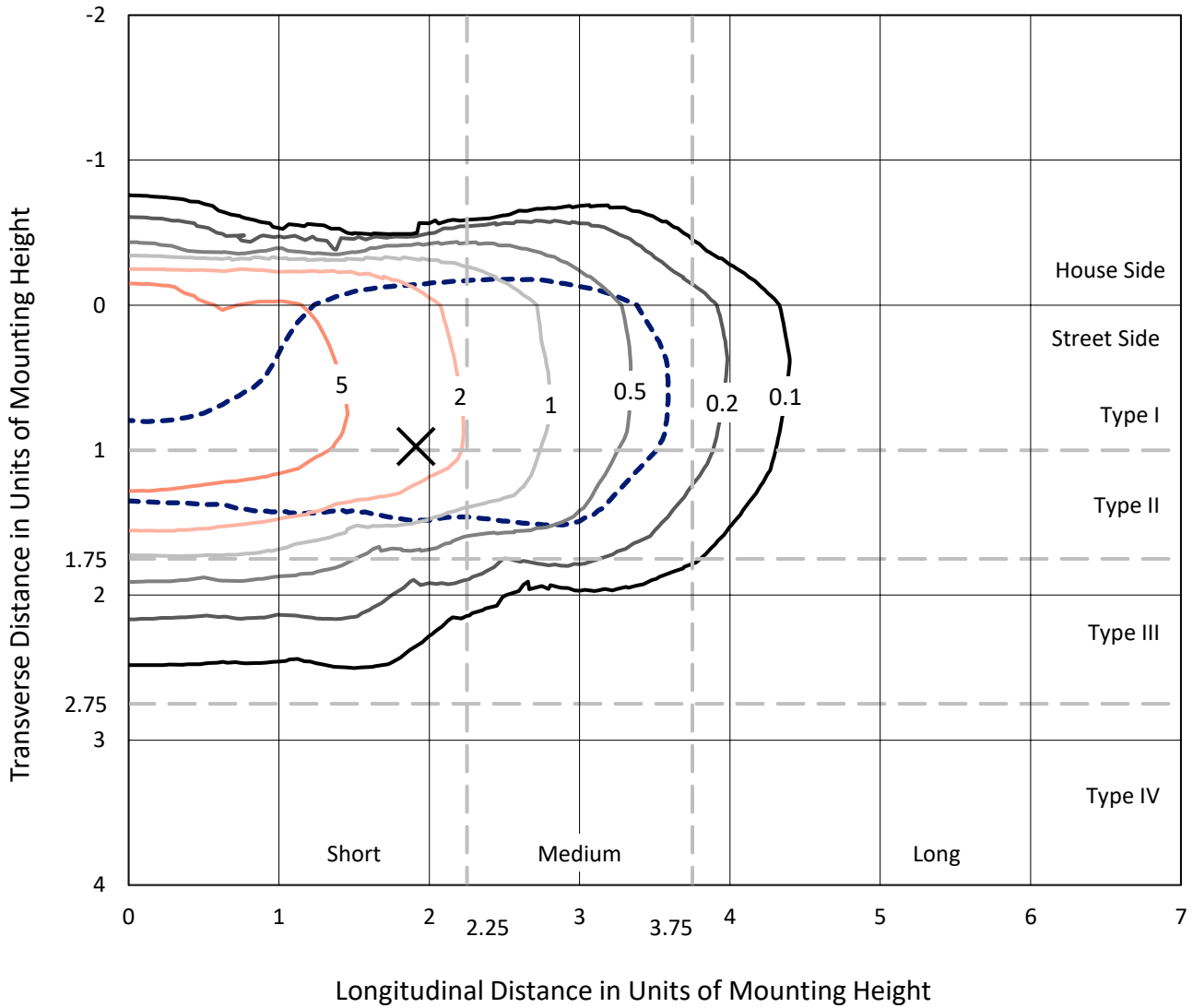
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

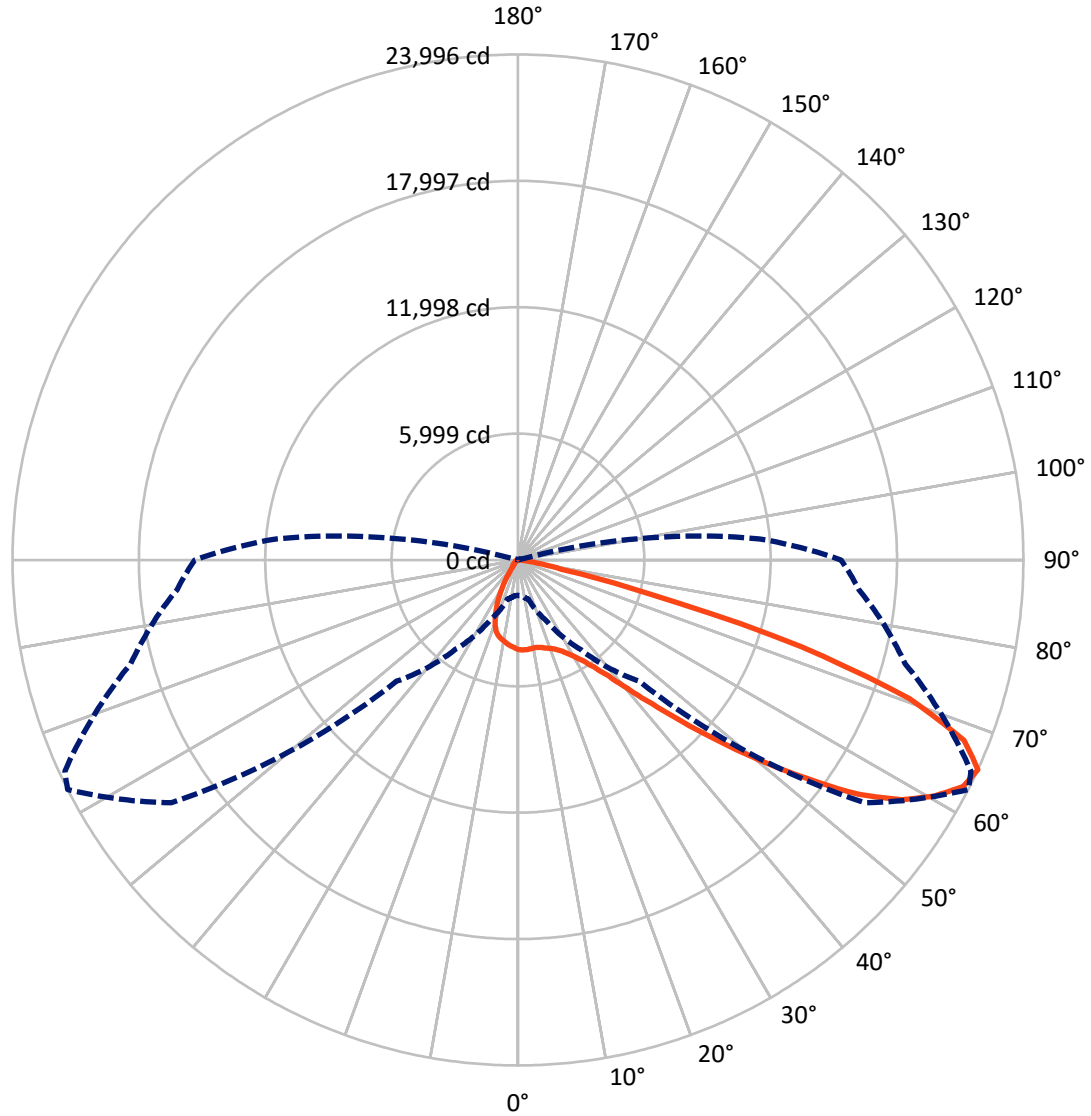
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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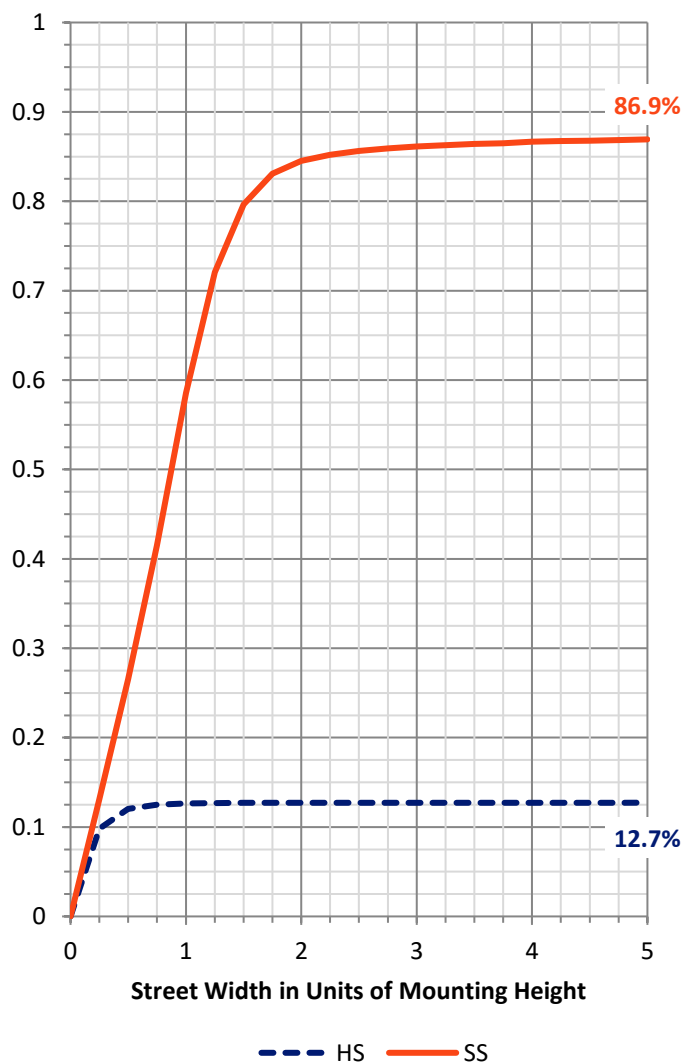
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3557.7	0.0	3557.7
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	24086.3	0.0	24086.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	27644.0	0.0	27644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.6	1.4
10°-20°	958.6	3.5
20°-30°	1420.8	5.1
30°-40°	2638.1	9.5
40°-50°	5588.7	20.2
50°-60°	7727.7	28.0
60°-70°	6186.3	22.4
70°-80°	2570.2	9.3
80°-90°	165.0	0.6
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°	27644.0	100.0
0°-180°	27644.0	100.0

Coefficient of Utilization

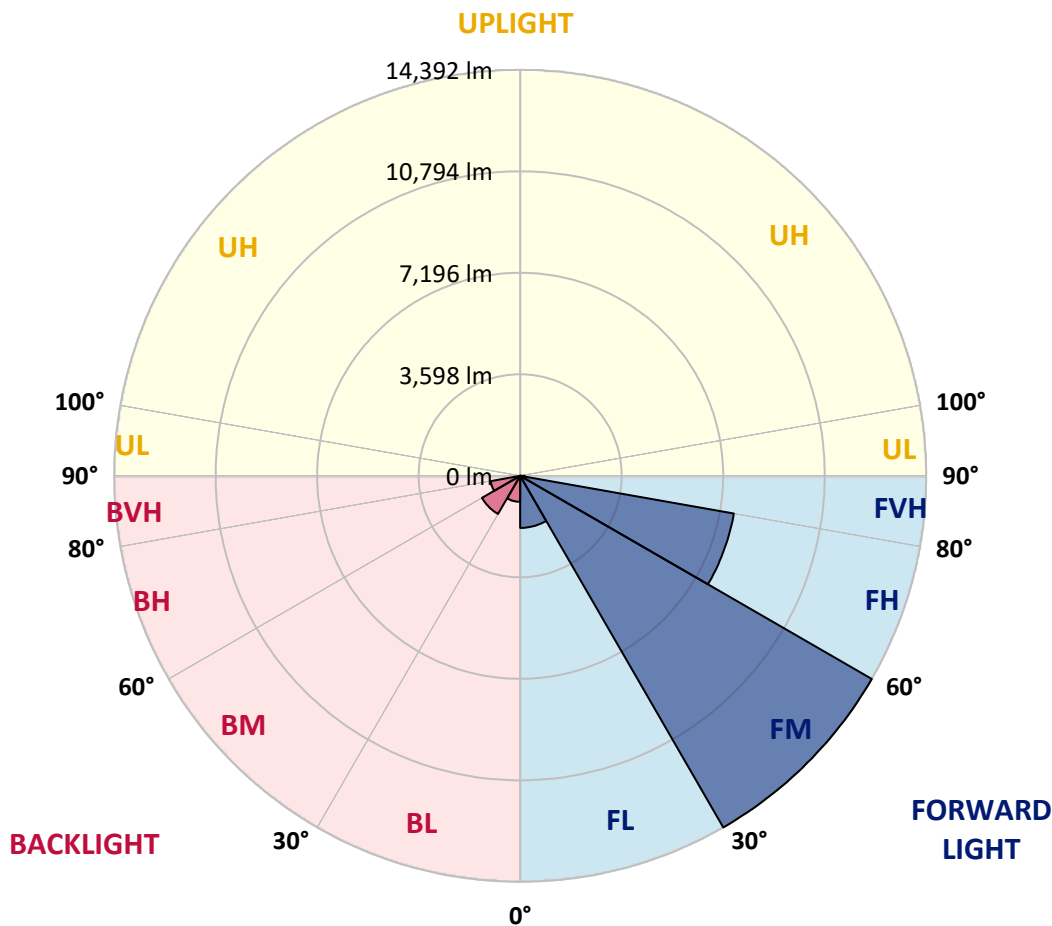


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1846.0	6.7			
FM (30°-60°)	14391.6	52.1			
FH (60°-80°)	7691.2	27.8			G4/12000
FVH (80°-90°)	157.5	0.6			G2/225
BL (0°-30°)	922.0	3.3	B2/1000		
BM (30°-60°)	1562.9	5.7	B2/2500		
BH (60°-80°)	1065.3	3.9	B3/2500		G3/2500
BVH (80°-90°)	7.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6
2.5°	4331.6	4321.2	4310.8	4305.5	4305.5	4300.3	4279.4	4274.2	4263.8	4253.4	4242.9
5°	4289.9	4274.2	4269.0	4274.2	4279.4	4289.9	4279.4	4279.4	4269.0	4258.6	4237.7
7.5°	4185.5	4175.1	4180.3	4195.9	4201.2	4237.7	4242.9	4258.6	4258.6	4248.1	4232.5
10°	4060.3	4055.0	4055.0	4081.1	4107.2	4159.4	4195.9	4237.7	4242.9	4242.9	4216.8
12.5°	3966.3	3961.1	3976.8	4008.1	4060.3	4128.1	4190.7	4253.4	4263.8	4269.0	4227.3
15°	3908.9	3908.9	3929.8	3992.4	4065.5	4159.4	4232.5	4316.0	4326.4	4321.2	4263.8
17.5°	3856.7	3861.9	3903.7	4008.1	4091.6	4216.8	4305.5	4399.5	4404.7	4399.5	4305.5
20°	3835.8	3846.3	3908.9	4044.6	4138.5	4279.4	4394.3	4488.2	4493.4	4472.5	4347.3
22.5°	3893.3	3898.5	3976.8	4122.9	4211.6	4368.2	4514.3	4603.0	4608.2	4576.9	4409.9
25°	4091.6	4091.6	4159.4	4284.7	4362.9	4519.5	4676.1	4780.5	4780.5	4743.9	4550.8
27.5°	4556.0	4514.3	4498.6	4535.2	4561.3	4728.3	4895.3	5025.7	5020.5	4968.3	4733.5
30°	5453.7	5349.3	5182.3	4994.4	4900.5	5015.3	5171.9	5338.9	5333.7	5250.2	4957.9
32.5°	6961.9	6810.6	6414.0	5918.2	5516.3	5385.8	5532.0	5714.6	5719.8	5620.7	5318.0
35°	9075.6	8835.5	8125.7	7436.8	6518.3	6022.5	6064.3	6262.6	6325.2	6273.0	5923.4
37.5°	11110.9	10891.7	10213.3	9258.2	8010.9	6998.5	6821.0	6993.2	7066.3	7066.3	6695.8
40°	13161.9	12906.2	12306.0	11345.8	10030.6	8522.4	7885.7	8026.6	8104.9	8120.5	7635.2
42.5°	14805.8	14638.8	14179.6	13433.3	12201.6	11194.4	9420.0	9341.7	9414.8	9357.4	8725.9
45°	15943.6	15813.1	15494.7	15212.9	14612.8	14106.5	11471.0	10943.9	10990.9	10792.6	9952.3
47.5°	16178.4	16032.3	15964.4	16355.8	16783.8	16909.0	13991.7	12848.8	12801.8	12363.4	11225.7
50°	15155.5	15171.2	15421.7	16538.5	18323.3	19450.6	16914.3	14998.9	14826.7	13850.8	12410.4
52.5°	12947.9	13198.4	13829.9	15640.9	18793.0	21298.1	19836.8	17279.6	17013.4	15296.4	13297.6
55°	10129.8	10453.3	11491.9	13574.2	17811.9	22122.7	22300.1	19648.9	19043.5	16381.9	13986.5
57.5°	7530.8	7629.9	8840.7	10740.4	15489.5	21313.7	23563.1	21475.5	20697.9	17248.3	14670.2
60°	4691.7	4754.4	6033.0	8177.9	11732.0	18323.3	23563.1	22733.3	21992.2	18025.9	15296.4
62.5°	2917.3	2938.2	3418.3	5605.0	7974.4	13589.9	22587.1	23709.2	23114.2	18584.3	15834.0
65°	1680.5	1701.3	1925.8	3167.8	5187.5	8136.2	20092.5	23996.2	23730.1	19027.9	16251.5
67.5°	1226.4	1236.9	1325.6	1779.6	3392.2	4180.3	15092.9	22842.9	23176.9	19247.1	16241.0
70°	1064.6	1080.3	1195.1	1388.2	2447.6	2567.7	7682.1	19727.2	20661.4	18933.9	15755.7
72.5°	819.4	840.2	1012.5	1304.7	1795.3	1847.5	2781.6	14038.7	15453.0	16976.9	14424.9
75°	563.6	584.5	756.7	1075.1	1482.2	1383.0	1529.1	6460.9	8151.8	11387.5	10980.4
77.5°	360.1	365.3	474.9	782.8	1278.6	981.1	1049.0	2108.4	2959.1	5151.0	5182.3
80°	240.1	245.3	292.3	506.2	876.8	908.1	647.1	975.9	1069.9	1503.0	1043.8
82.5°	146.1	146.1	198.3	318.3	532.3	751.5	422.7	511.4	548.0	579.3	271.4
85°	57.4	57.4	120.0	208.8	334.0	349.7	266.2	297.5	313.1	339.2	125.3
87.5°	15.7	15.7	67.8	114.8	146.1	161.8	161.8	146.1	156.6	193.1	62.6
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°	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6	4258.6
2.5°	4237.7	4222.0	4201.2	4180.3	4159.4	4143.8	4128.1	4128.1	4117.7	4102.0	4091.6
5°	4227.3	4201.2	4154.2	4117.7	4060.3	4018.5	3987.2	3961.1	3945.4	3908.9	3903.7
7.5°	4211.6	4180.3	4112.4	4039.4	3945.4	3872.4	3799.3	3747.1	3694.9	3653.2	3642.7
10°	4185.5	4149.0	4049.8	3945.4	3815.0	3679.3	3507.1	3308.7	3126.1	3021.7	2990.4
12.5°	4185.5	4138.5	4008.1	3867.2	3679.3	3345.3	2906.9	2468.5	2129.3	1977.9	1936.2
15°	4211.6	4149.0	3976.8	3783.7	3434.0	2755.5	2045.8	1466.5	1096.0	981.1	955.0
17.5°	4237.7	4149.0	3929.8	3668.8	2985.2	1998.8	1163.8	772.4	652.4	626.3	626.3
20°	4248.1	4138.5	3867.2	3454.9	2385.0	1242.1	694.1	579.3	532.3	516.7	516.7
22.5°	4289.9	4143.8	3820.2	3147.0	1732.7	730.6	548.0	485.4	438.4	422.7	422.7
25°	4394.3	4206.4	3830.6	2755.5	1111.6	553.2	464.5	401.9	354.9	334.0	334.0
27.5°	4561.3	4347.3	3888.0	2301.5	699.3	474.9	391.4	323.6	287.0	266.2	266.2
30°	4749.1	4503.9	3914.1	1779.6	521.9	401.9	318.3	255.7	229.6	214.0	208.8
32.5°	5077.9	4775.2	3893.3	1221.2	427.9	339.2	255.7	203.5	182.7	177.4	177.4
35°	5605.0	5250.2	3851.5	767.2	354.9	271.4	203.5	167.0	151.3	146.1	140.9
37.5°	6320.0	5944.3	3726.3	506.2	292.3	214.0	167.0	140.9	125.3	120.0	120.0
40°	7191.6	6737.5	3486.2	386.2	250.5	172.2	140.9	120.0	109.6	104.4	104.4
42.5°	8188.4	7619.5	3105.2	334.0	208.8	146.1	120.0	99.2	93.9	88.7	88.7
45°	9279.1	8543.2	2578.1	297.5	177.4	120.0	99.2	88.7	78.3	78.3	73.1
47.5°	10437.7	9472.2	1983.2	260.9	151.3	104.4	88.7	73.1	67.8	62.6	62.6
50°	11554.5	10302.0	1393.4	224.4	125.3	88.7	73.1	62.6	57.4	52.2	52.2
52.5°	12342.6	10803.0	986.4	193.1	104.4	78.3	57.4	47.0	41.8	41.8	41.8
55°	12974.0	11116.1	688.9	161.8	88.7	67.8	47.0	36.5	36.5	31.3	31.3
57.5°	13569.0	11319.7	506.2	135.7	73.1	52.2	36.5	26.1	26.1	20.9	20.9
60°	14184.8	11429.3	386.2	109.6	62.6	41.8	26.1	20.9	15.7	15.7	15.7
62.5°	14805.8	11497.1	297.5	88.7	52.2	31.3	20.9	15.7	10.4	5.2	5.2
65°	15348.6	11518.0	229.6	67.8	41.8	20.9	15.7	5.2	0.0	0.0	0.0
67.5°	15510.4	11277.9	177.4	52.2	31.3	15.7	10.4	0.0	0.0	0.0	0.0
70°	15072.0	10641.2	135.7	41.8	26.1	10.4	5.2	0.0	0.0	0.0	0.0
72.5°	13375.9	8924.2	104.4	26.1	20.9	10.4	5.2	0.0	0.0	0.0	0.0
75°	9571.4	4759.6	73.1	20.9	15.7	5.2	0.0	0.0	0.0	0.0	0.0
77.5°	4404.7	1842.3	52.2	15.7	10.4	5.2	0.0	0.0	0.0	0.0	0.0
80°	861.1	459.3	20.9	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	198.3	78.3	10.4	10.4	5.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	67.8	26.1	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.1	10.4	5.2	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)