

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: P381386

Luminaire Tested: **PRV-XL-PA4A-740-U-T2U-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381386
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-PA4A-740-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 785mA 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: 23728 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

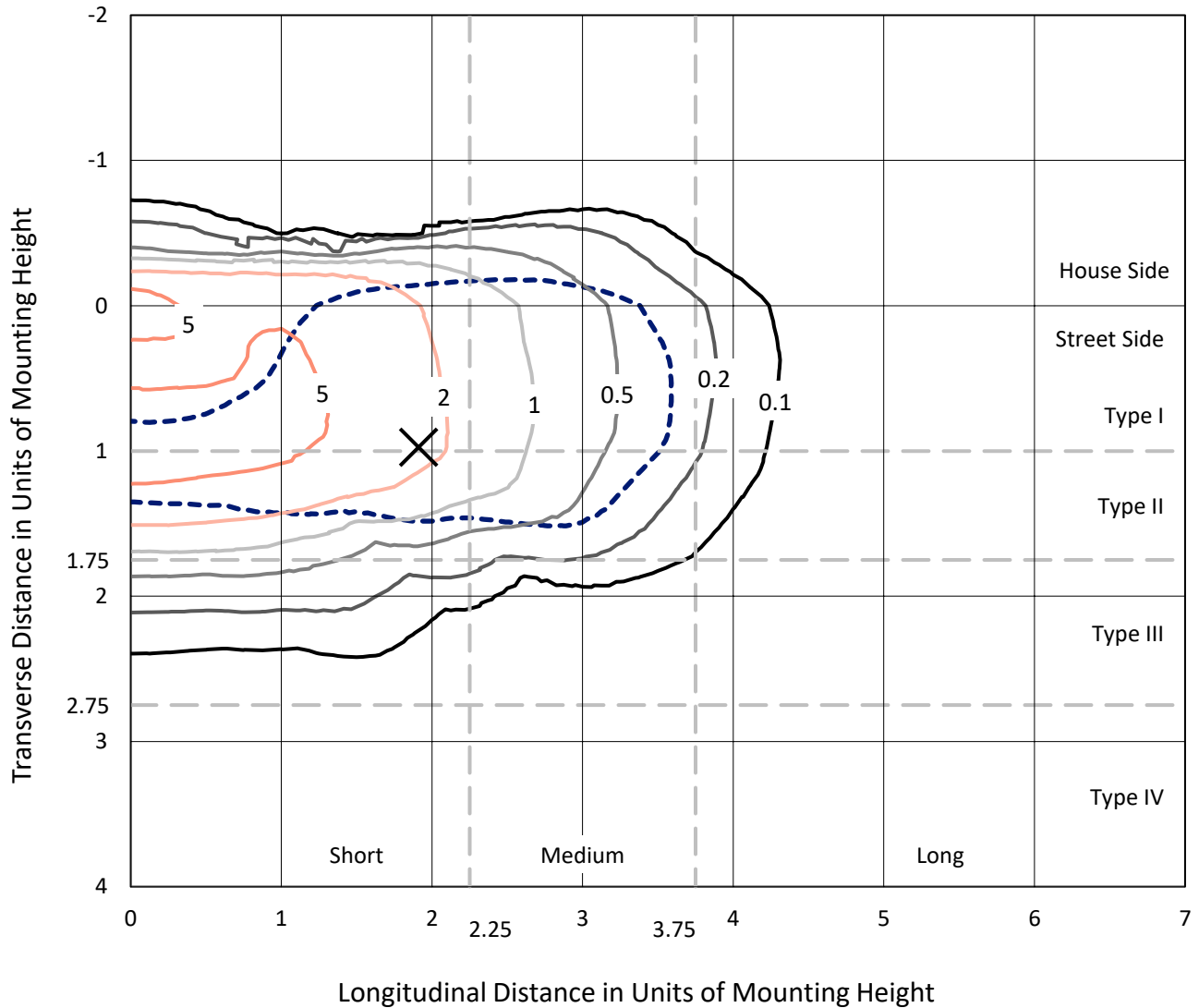
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P381386
 CATALOG NUMBER: PRV-XL-PA4A-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

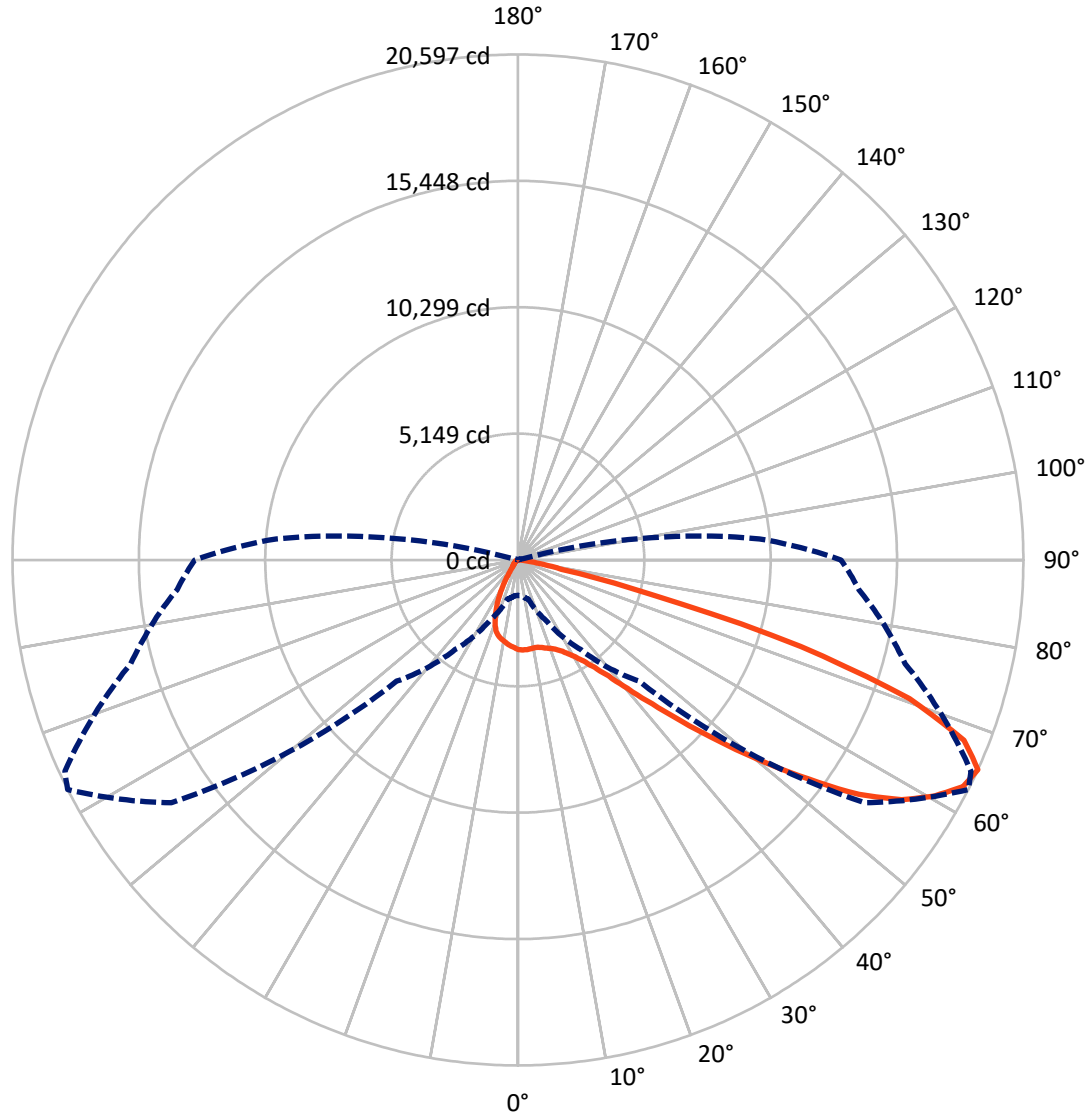
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Short - N/A

REPORT NUMBER: P381386
CATALOG NUMBER: PRV-XL-PA4A-740-U-T2U-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: PRV-XL-PA4A-740-U-T2U-HSS

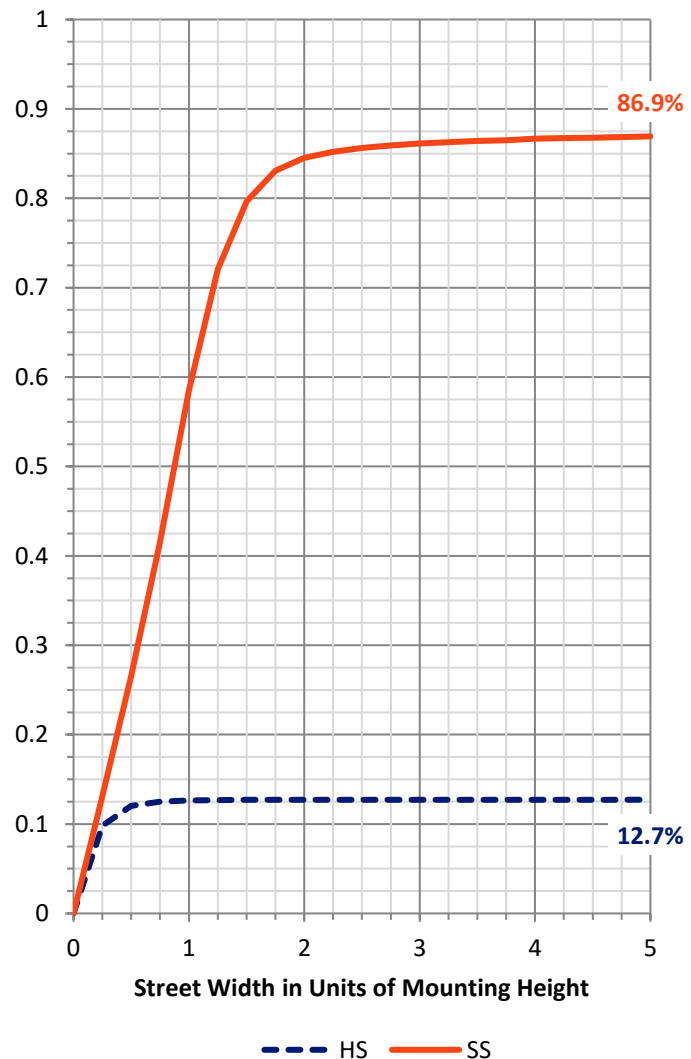
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3053.8	0.0	3053.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	20674.3	0.0	20674.3
	% Fixture	87.1	0.0	87.1
Total	Lumens	23728.0	0.0	23728.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	1.4
10°-20°	822.8	3.5
20°-30°	1219.6	5.1
30°-40°	2264.4	9.5
40°-50°	4797.0	20.2
50°-60°	6633.0	28.0
60°-70°	5309.9	22.4
70°-80°	2206.1	9.3
80°-90°	141.7	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°	23728.0	100.0
0°-180°	23728.0	100.0

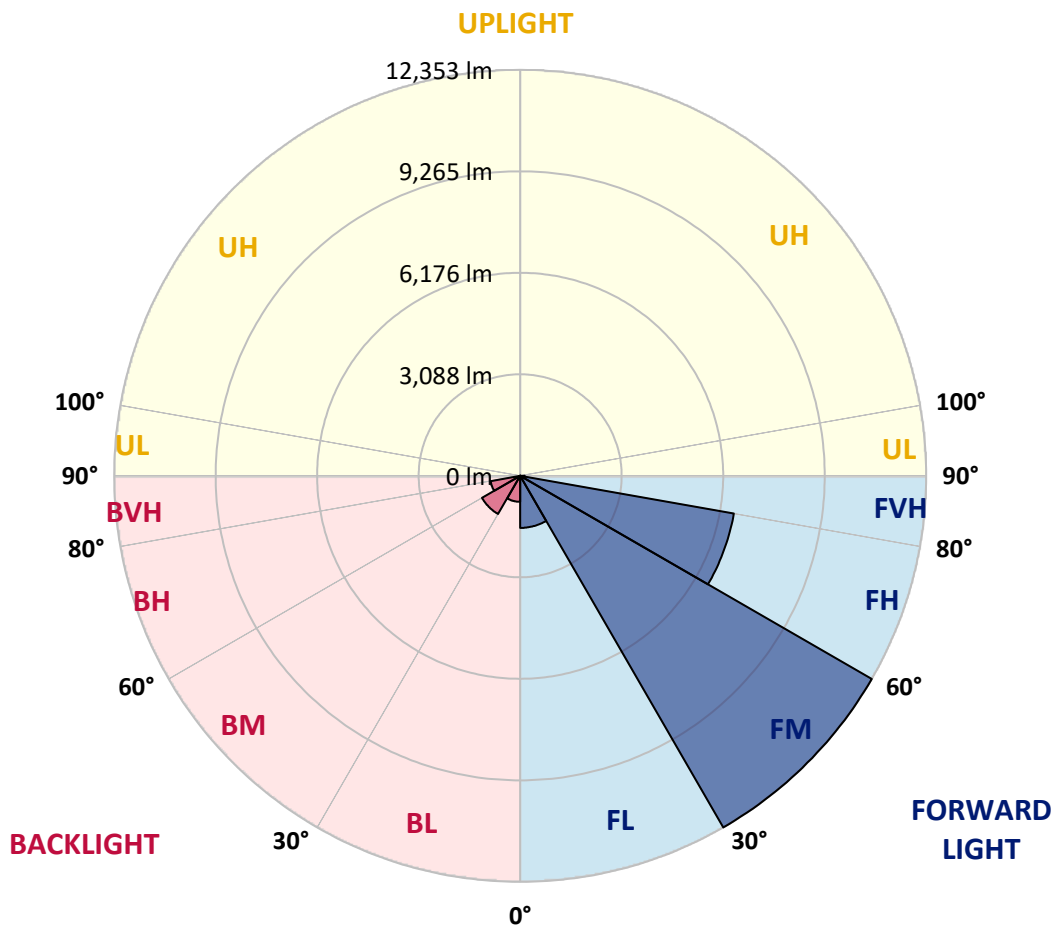


REPORT NUMBER: P381386
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1584.5	6.7			
FM (30°-60°)	12352.9	52.1			
FH (60°-80°)	6601.7	27.8			G3/7500
FVH (80°-90°)	135.2	0.6			G2/225
BL (0°-30°)	791.4	3.3	B2/1000		
BM (30°-60°)	1341.5	5.7	B2/2500		
BH (60°-80°)	914.4	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





REPORT NUMBER: P381386

CATALOG NUMBER: PRV-XL-PA4A-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3
2.5°	3718.0	3709.1	3700.1	3695.6	3695.6	3691.1	3673.2	3668.7	3659.8	3650.8	3641.9
5°	3682.2	3668.7	3664.3	3668.7	3673.2	3682.2	3673.2	3673.2	3664.3	3655.3	3637.4
7.5°	3592.6	3583.6	3588.1	3601.6	3606.0	3637.4	3641.9	3655.3	3655.3	3646.4	3632.9
10°	3485.1	3480.6	3480.6	3503.0	3525.4	3570.2	3601.6	3637.4	3641.9	3641.9	3619.5
12.5°	3404.5	3400.0	3413.4	3440.3	3485.1	3543.3	3597.1	3650.8	3659.8	3664.3	3628.4
15°	3355.2	3355.2	3373.1	3426.9	3489.6	3570.2	3632.9	3704.6	3713.5	3709.1	3659.8
17.5°	3310.4	3314.9	3350.7	3440.3	3512.0	3619.5	3695.6	3776.3	3780.7	3776.3	3695.6
20°	3292.5	3301.4	3355.2	3471.6	3552.3	3673.2	3771.8	3852.4	3856.9	3839.0	3731.5
22.5°	3341.7	3346.2	3413.4	3538.8	3615.0	3749.4	3874.8	3951.0	3955.4	3928.6	3785.2
25°	3512.0	3512.0	3570.2	3677.7	3744.9	3879.3	4013.7	4103.3	4103.3	4071.9	3906.2
27.5°	3910.6	3874.8	3861.4	3892.7	3915.1	4058.5	4201.8	4313.8	4309.3	4264.5	4063.0
30°	4681.1	4591.5	4448.2	4286.9	4206.3	4304.8	4439.2	4582.6	4578.1	4506.4	4255.6
32.5°	5975.7	5845.8	5505.4	5079.8	4734.9	4622.9	4748.3	4905.1	4909.6	4824.5	4564.7
35°	7789.9	7583.9	6974.7	6383.4	5595.0	5169.4	5205.2	5375.5	5429.2	5384.4	5084.3
37.5°	9537.0	9348.8	8766.5	7946.7	6876.1	6007.1	5854.8	6002.6	6065.3	6065.3	5747.3
40°	11297.4	11077.9	10562.8	9738.5	8609.7	7315.1	6768.6	6889.5	6956.7	6970.2	6553.6
42.5°	12708.5	12565.1	12170.9	11530.4	10473.2	9608.6	8085.6	8018.4	8081.1	8031.8	7489.8
45°	13685.0	13573.0	13299.8	13057.9	12542.7	12108.2	9846.0	9393.6	9433.9	9263.7	8542.5
47.5°	13886.6	13761.2	13702.9	14038.9	14406.2	14513.7	12009.7	11028.6	10988.3	10612.0	9635.5
50°	13008.6	13022.0	13237.1	14195.7	15727.7	16695.3	14518.2	12874.2	12726.4	11888.7	10652.4
52.5°	11113.8	11328.8	11870.8	13425.2	16130.9	18281.0	17026.8	14831.8	14603.3	13129.6	11413.9
55°	8694.8	8972.5	9864.0	11651.3	15288.7	18988.8	19141.1	16865.5	16345.9	14061.3	12005.2
57.5°	6464.0	6549.1	7588.4	9218.9	13295.3	18294.5	20225.2	18433.3	17765.9	14804.9	12592.0
60°	4027.1	4080.9	5178.4	7019.5	10070.0	15727.7	20225.2	19512.9	18876.8	15472.4	13129.6
62.5°	2504.1	2522.0	2934.1	4811.0	6844.7	11664.7	19387.5	20350.6	19839.9	15951.7	13590.9
65°	1442.4	1460.3	1653.0	2719.1	4452.7	6983.6	17246.3	20597.0	20368.5	16332.4	13949.3
67.5°	1052.7	1061.7	1137.8	1527.5	2911.7	3588.1	12954.9	19607.0	19893.7	16520.6	13940.4
70°	913.8	927.3	1025.8	1191.6	2100.9	2203.9	6593.9	16932.7	17734.5	16251.8	13523.8
72.5°	703.3	721.2	869.0	1119.9	1541.0	1585.8	2387.6	12050.0	13263.9	14572.0	12381.5
75°	483.8	501.7	649.5	922.8	1272.2	1187.1	1312.5	5545.7	6997.1	9774.4	9425.0
77.5°	309.1	313.6	407.6	671.9	1097.5	842.2	900.4	1809.7	2539.9	4421.3	4448.2
80°	206.1	210.5	250.9	434.5	752.6	779.4	555.5	837.7	918.3	1290.1	895.9
82.5°	125.4	125.4	170.2	273.3	456.9	645.1	362.8	439.0	470.4	497.2	232.9
85°	49.3	49.3	103.0	179.2	286.7	300.1	228.5	255.3	268.8	291.2	107.5
87.5°	13.4	13.4	58.2	98.6	125.4	138.9	138.9	125.4	134.4	165.7	53.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P381386

CATALOG NUMBER: PRV-XL-PA4A-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3
2.5°	3637.4	3624.0	3606.0	3588.1	3570.2	3556.8	3543.3	3543.3	3534.4	3520.9	3512.0
5°	3628.4	3606.0	3565.7	3534.4	3485.1	3449.3	3422.4	3400.0	3386.5	3355.2	3350.7
7.5°	3615.0	3588.1	3529.9	3467.2	3386.5	3323.8	3261.1	3216.3	3171.5	3135.7	3126.7
10°	3592.6	3561.2	3476.1	3386.5	3274.5	3158.1	3010.3	2840.0	2683.2	2593.7	2566.8
12.5°	3592.6	3552.3	3440.3	3319.3	3158.1	2871.4	2495.1	2118.8	1827.7	1697.7	1661.9
15°	3615.0	3561.2	3413.4	3247.7	2947.5	2365.2	1756.0	1258.8	940.7	842.2	819.8
17.5°	3637.4	3561.2	3373.1	3149.1	2562.3	1715.7	998.9	663.0	559.9	537.5	537.5
20°	3646.4	3552.3	3319.3	2965.5	2047.2	1066.1	595.8	497.2	456.9	443.5	443.5
22.5°	3682.2	3556.8	3279.0	2701.2	1487.2	627.1	470.4	416.6	376.3	362.8	362.8
25°	3771.8	3610.5	3288.0	2365.2	954.1	474.8	398.7	344.9	304.6	286.7	286.7
27.5°	3915.1	3731.5	3337.3	1975.5	600.3	407.6	336.0	277.7	246.4	228.5	228.5
30°	4076.4	3865.8	3359.7	1527.5	448.0	344.9	273.3	219.5	197.1	183.7	179.2
32.5°	4358.6	4098.8	3341.7	1048.2	367.3	291.2	219.5	174.7	156.8	152.3	152.3
35°	4811.0	4506.4	3305.9	658.5	304.6	232.9	174.7	143.3	129.9	125.4	120.9
37.5°	5424.7	5102.2	3198.4	434.5	250.9	183.7	143.3	120.9	107.5	103.0	103.0
40°	6172.8	5783.1	2992.3	331.5	215.0	147.8	120.9	103.0	94.1	89.6	89.6
42.5°	7028.4	6540.1	2665.3	286.7	179.2	125.4	103.0	85.1	80.6	76.2	76.2
45°	7964.6	7333.0	2212.9	255.3	152.3	103.0	85.1	76.2	67.2	67.2	62.7
47.5°	8959.1	8130.4	1702.2	224.0	129.9	89.6	76.2	62.7	58.2	53.8	53.8
50°	9917.7	8842.6	1196.0	192.6	107.5	76.2	62.7	53.8	49.3	44.8	44.8
52.5°	10594.1	9272.7	846.6	165.7	89.6	67.2	49.3	40.3	35.8	35.8	35.8
55°	11136.2	9541.4	591.3	138.9	76.2	58.2	40.3	31.4	31.4	26.9	26.9
57.5°	11646.8	9716.1	434.5	116.5	62.7	44.8	31.4	22.4	22.4	17.9	17.9
60°	12175.4	9810.2	331.5	94.1	53.8	35.8	22.4	17.9	13.4	13.4	13.4
62.5°	12708.5	9868.4	255.3	76.2	44.8	26.9	17.9	13.4	9.0	4.5	4.5
65°	13174.4	9886.4	197.1	58.2	35.8	17.9	13.4	4.5	0.0	0.0	0.0
67.5°	13313.2	9680.3	152.3	44.8	26.9	13.4	9.0	0.0	0.0	0.0	0.0
70°	12936.9	9133.8	116.5	35.8	22.4	9.0	4.5	0.0	0.0	0.0	0.0
72.5°	11481.1	7660.0	89.6	22.4	17.9	9.0	4.5	0.0	0.0	0.0	0.0
75°	8215.5	4085.3	62.7	17.9	13.4	4.5	0.0	0.0	0.0	0.0	0.0
77.5°	3780.7	1581.3	44.8	13.4	9.0	4.5	0.0	0.0	0.0	0.0	0.0
80°	739.1	394.2	17.9	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	170.2	67.2	9.0	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.2	22.4	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.4	9.0	4.5	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)