

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: P381315

Luminaire Tested: **PRV-XL-PA4B-730-U-T4W-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381315
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA4B-730-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25760 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G5

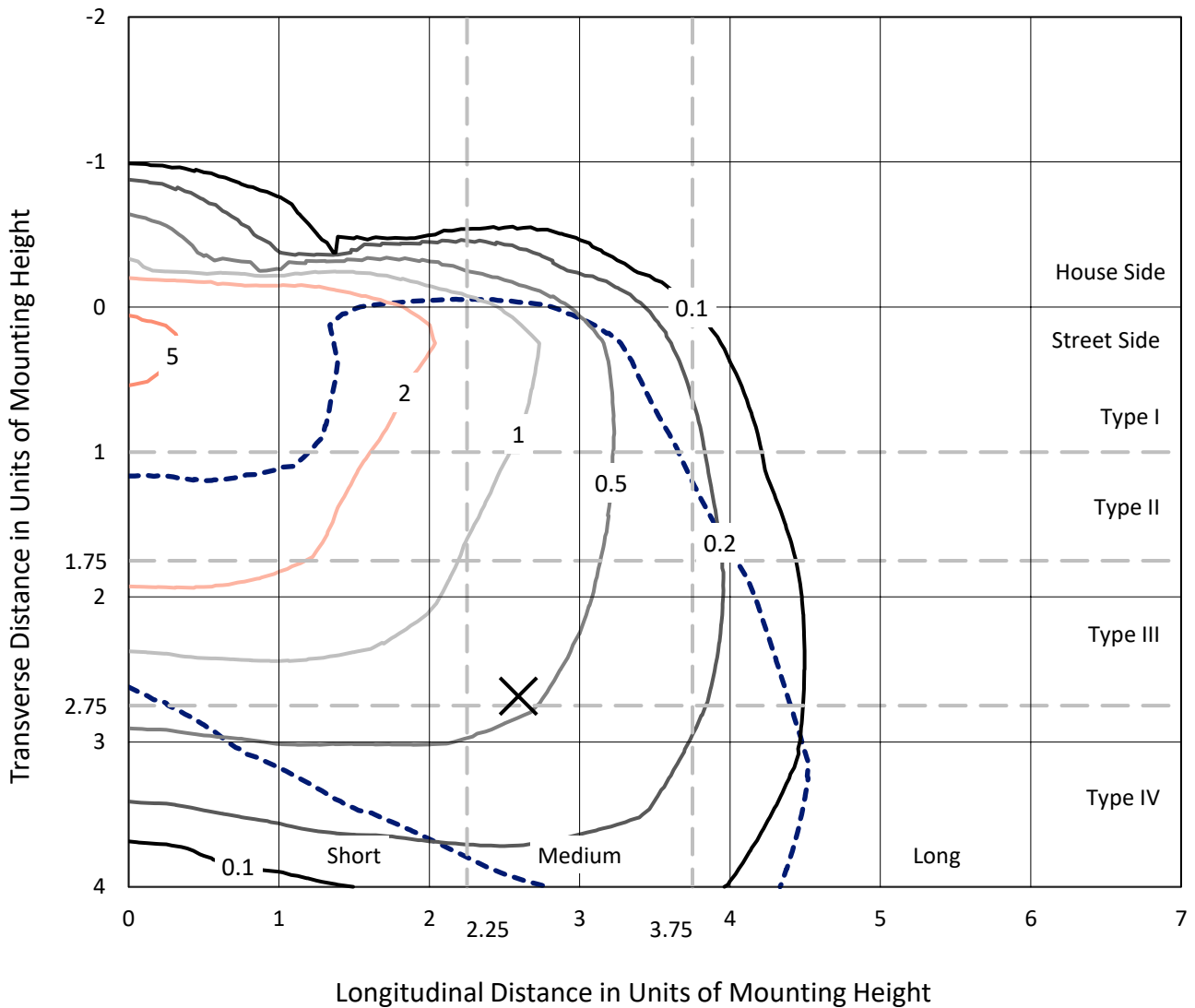
Input Watts (W): 303
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

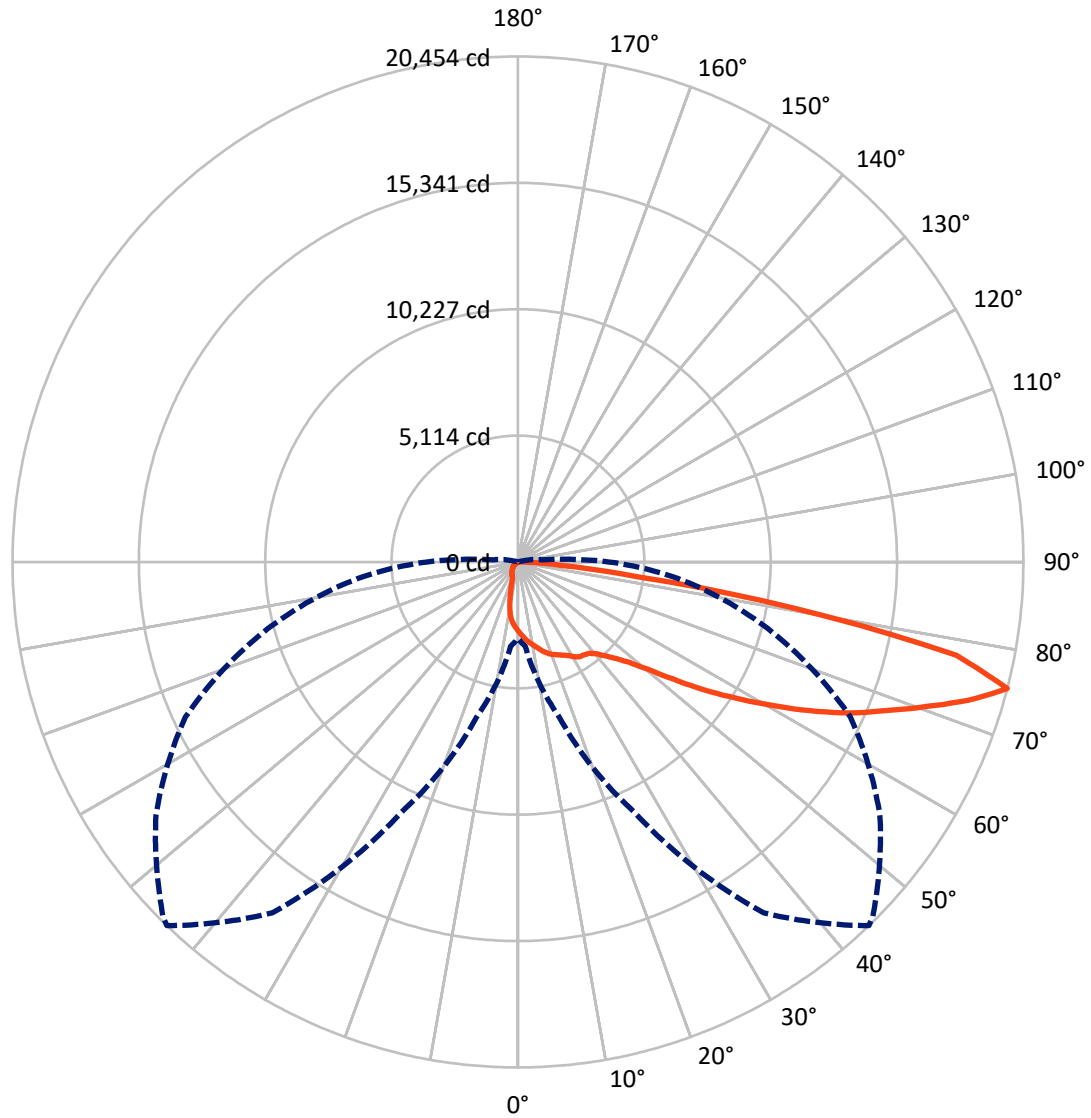
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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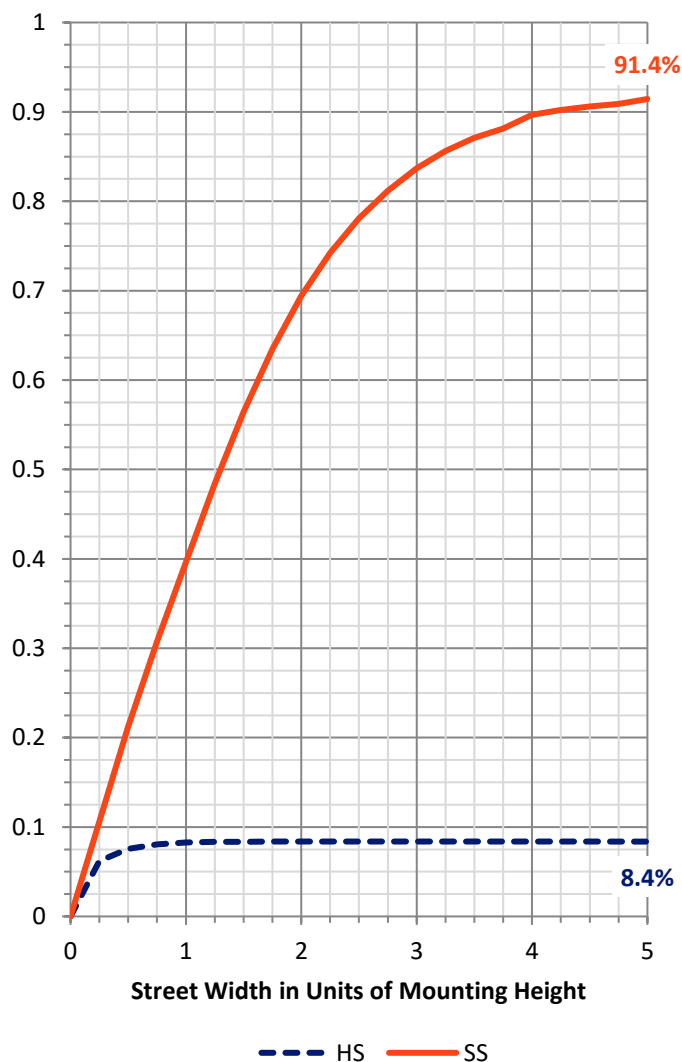
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2172.4	0.0	2172.4
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23587.6	0.0	23587.6
	% Fixture	91.6	0.0	91.6
Total	Lumens	25760.0	0.0	25760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.4	1.0
10°-20°	741.0	2.9
20°-30°	1222.8	4.7
30°-40°	1774.7	6.9
40°-50°	2885.0	11.2
50°-60°	5085.9	19.7
60°-70°	7309.4	28.4
70°-80°	5853.2	22.7
80°-90°	623.6	2.4
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°	25760.0	100.0
0°-180°	25760.0	100.0

Coefficient of Utilization



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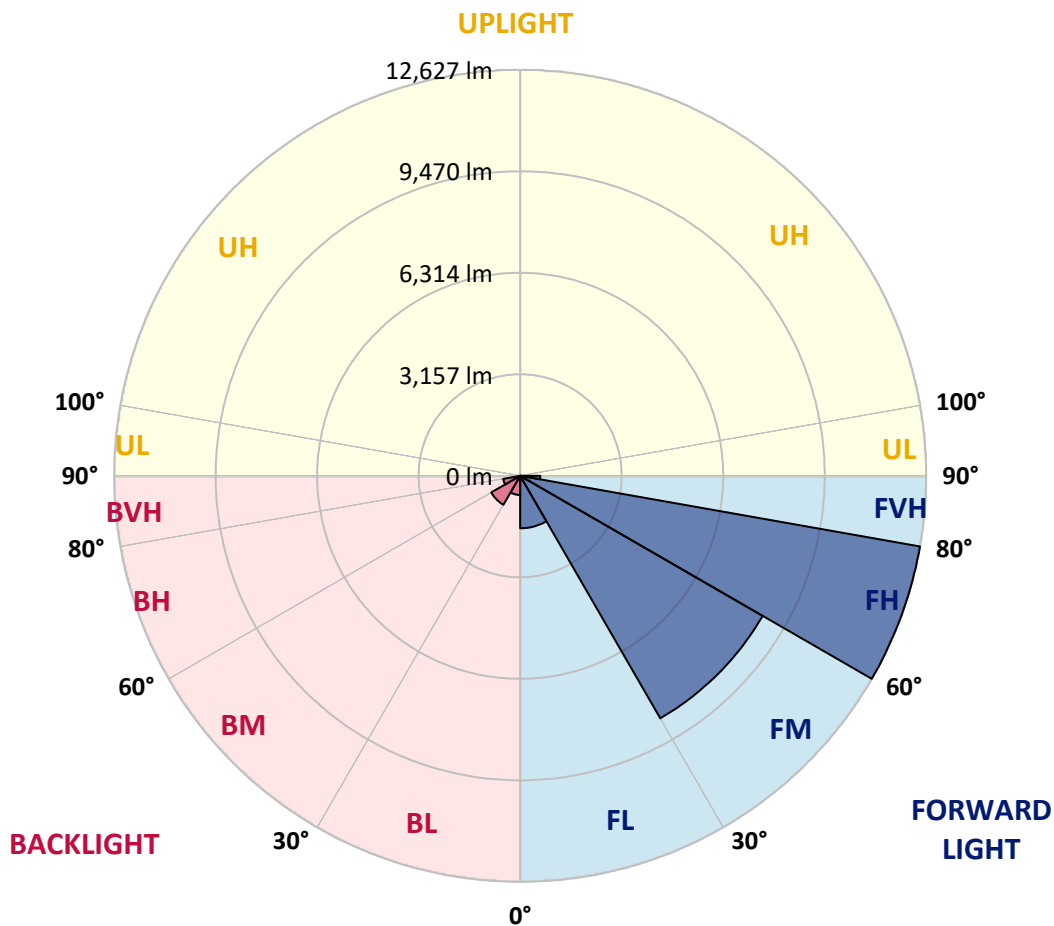
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1631.3	6.3			
FM (30°-60°)	8707.1	33.8			
FH (60°-80°)	12627.1	49.0			G5
FVH (80°-90°)	622.0	2.4			G4/750
BL (0°-30°)	596.8	2.3	B2/1000		
BM (30°-60°)	1038.5	4.0	B2/2500		
BH (60°-80°)	535.6	2.1	B2/1000		G2/1000
BVH (80°-90°)	1.6	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-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9
2.5°	3055.8	3051.0	3036.7	3013.0	2989.2	2965.5	2960.7	2922.7	2879.9	2846.6	2818.1
5°	3326.6	3321.9	3298.1	3245.8	3193.6	3131.8	3127.0	3036.7	2956.0	2865.7	2789.6
7.5°	3607.0	3597.5	3554.7	3474.0	3383.7	3288.6	3279.1	3146.0	3027.2	2908.4	2799.1
10°	3825.6	3816.1	3754.3	3659.3	3535.7	3416.9	3402.7	3264.9	3146.0	2994.0	2846.6
12.5°	4039.5	4020.5	3939.7	3835.1	3683.1	3569.0	3554.7	3412.2	3269.6	3112.8	2932.2
15°	4239.1	4215.3	4139.3	4006.2	3844.6	3735.3	3725.8	3573.8	3426.4	3245.8	3046.2
17.5°	4376.9	4367.4	4277.1	4129.8	3973.0	3882.7	3873.2	3716.3	3569.0	3378.9	3165.1
20°	4448.2	4448.2	4362.6	4201.1	4058.5	3996.7	3982.5	3835.1	3692.6	3512.0	3288.6
22.5°	4462.4	4476.7	4410.2	4234.3	4129.8	4077.5	4068.0	3939.7	3801.9	3635.5	3426.4
25°	4491.0	4491.0	4457.7	4267.6	4191.6	4177.3	4172.6	4058.5	3934.9	3768.6	3564.3
27.5°	4524.2	4524.2	4500.5	4315.1	4286.6	4281.9	4277.1	4224.8	4125.0	3930.2	3725.8
30°	4609.8	4614.5	4595.5	4410.2	4391.2	4443.4	4452.9	4424.4	4300.9	4058.5	3892.2
32.5°	4823.6	4780.9	4728.6	4476.7	4510.0	4576.5	4581.3	4524.2	4391.2	4196.3	4091.8
35°	5360.6	5108.8	4871.1	4533.7	4548.0	4614.5	4624.0	4619.3	4538.5	4372.1	4319.9
37.5°	5859.6	5503.2	5165.8	4666.8	4619.3	4690.6	4709.6	4790.4	4728.6	4614.5	4628.8
40°	6149.5	6011.7	5774.1	5032.7	4761.8	4871.1	4890.2	5013.7	4990.0	4942.4	5032.7
42.5°	7043.0	7052.5	6795.8	5579.2	5023.2	5199.1	5222.8	5322.6	5355.9	5379.6	5598.3
45°	8079.0	8112.2	8050.5	6563.0	5517.5	5574.5	5607.8	5740.8	5864.4	6016.5	6415.7
47.5°	9324.1	9295.6	9067.5	7765.3	6377.6	6059.2	6083.0	6339.6	6553.5	6886.1	7456.4
50°	10426.6	10497.9	10065.4	8886.9	7589.5	6824.4	6800.6	7052.5	7437.4	7903.1	8620.7
52.5°	11538.7	11434.1	10849.6	9998.9	9024.7	7865.1	7793.8	7931.6	8473.4	9024.7	9761.3
55°	11833.3	11842.8	11643.2	11215.5	10222.3	9129.2	9010.4	9000.9	9675.8	10051.2	10958.9
57.5°	12413.1	12436.9	12484.4	12569.9	12099.4	10393.4	10269.8	10136.7	10792.6	11011.2	12161.2
60°	13002.4	13030.9	13320.8	13781.8	13468.1	11757.3	11624.2	11310.6	11676.5	11971.1	13425.3
62.5°	12926.4	13126.0	13967.1	14884.3	14846.3	13254.3	13087.9	12332.3	12565.2	12821.8	14584.9
65°	11671.7	11885.6	13777.0	15188.5	16229.2	14732.2	14461.4	13387.3	13401.6	13710.5	15701.7
67.5°	10550.2	10783.1	12588.9	15060.2	17141.7	16058.1	15777.8	14447.1	14223.7	14737.0	16300.5
70°	9903.9	10136.7	11643.2	14661.0	17398.3	17526.6	17284.2	15658.9	15202.7	15673.2	15630.4
72.5°	7751.1	8117.0	10436.1	13900.6	17673.9	19099.6	18909.5	17194.0	16034.4	14694.2	11899.8
75°	3089.0	3426.4	6515.5	11187.0	17327.0	20454.1	20306.7	17883.0	14841.5	10493.2	6092.5
77.5°	931.5	998.0	1810.6	5531.7	12703.0	18134.9	18087.4	15036.4	10502.7	4871.1	1663.3
80°	308.9	342.2	556.0	1525.5	5797.9	11329.6	11543.4	9580.7	4771.3	1116.8	337.4
82.5°	128.3	142.6	280.4	613.1	2053.0	4880.6	4809.4	4291.4	1663.3	693.8	123.6
85°	33.3	42.8	128.3	351.7	750.9	1682.3	1767.9	1440.0	941.0	575.0	38.0
87.5°	0.0	0.0	61.8	142.6	337.4	508.5	532.3	437.2	532.3	432.5	19.0
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°	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9	2803.9
2.5°	2794.4	2770.6	2727.8	2699.3	2661.3	2651.8	2632.8	2609.0	2604.3	2580.5	2585.3
5°	2746.9	2708.8	2632.8	2580.5	2518.7	2499.7	2466.5	2442.7	2423.7	2390.4	2395.2
7.5°	2737.3	2680.3	2575.8	2476.0	2376.2	2304.9	2205.1	2124.3	2057.8	1986.5	2000.7
10°	2770.6	2699.3	2552.0	2414.2	2233.6	2005.5	1744.1	1573.0	1487.5	1401.9	1411.4
12.5°	2837.1	2751.6	2561.5	2352.4	1986.5	1596.8	1235.6	1002.7	941.0	902.9	907.7
15°	2936.9	2832.4	2590.0	2233.6	1653.8	1154.8	822.2	722.4	746.1	760.4	760.4
17.5°	3041.5	2922.7	2613.8	2019.7	1278.4	807.9	670.1	660.6	693.8	727.1	727.1
20°	3169.8	3017.7	2618.5	1748.9	922.0	655.8	632.1	632.1	655.8	693.8	693.8
22.5°	3293.4	3122.3	2575.8	1440.0	703.3	608.3	608.3	608.3	622.6	660.6	665.3
25°	3440.7	3250.6	2485.5	1112.0	603.5	579.8	579.8	584.5	594.0	627.3	632.1
27.5°	3597.5	3383.7	2333.4	812.6	551.3	546.5	551.3	556.0	560.8	594.0	603.5
30°	3778.1	3531.0	2138.6	608.3	503.7	503.7	518.0	527.5	527.5	556.0	565.5
32.5°	3987.2	3725.8	1905.7	503.7	456.2	451.5	475.2	489.5	489.5	513.3	522.8
35°	4248.6	3925.4	1625.3	446.7	418.2	408.7	418.2	442.0	451.5	470.5	475.2
37.5°	4595.5	4163.0	1325.9	413.5	389.7	370.7	370.7	375.4	394.4	413.5	418.2
40°	5037.5	4424.4	1031.3	389.7	361.2	342.2	327.9	323.2	318.4	332.7	342.2
42.5°	5593.5	4719.1	769.9	365.9	337.4	308.9	289.9	270.9	247.1	242.4	247.1
45°	6306.4	5080.2	570.3	346.9	323.2	280.4	247.1	213.9	171.1	156.8	161.6
47.5°	7147.5	5455.7	446.7	327.9	313.7	247.1	204.4	147.3	104.6	95.0	99.8
50°	8041.0	5816.9	380.2	304.1	294.6	213.9	147.3	90.3	61.8	61.8	66.5
52.5°	8801.3	6021.2	346.9	285.1	266.1	175.8	95.0	52.3	38.0	38.0	42.8
55°	9537.9	6130.5	323.2	266.1	228.1	123.6	52.3	33.3	23.8	23.8	23.8
57.5°	10298.3	6178.0	294.6	242.4	180.6	76.0	28.5	19.0	14.3	14.3	14.3
60°	10973.1	6087.7	251.9	199.6	118.8	38.0	14.3	14.3	9.5	4.8	4.8
62.5°	11538.7	5916.7	175.8	142.6	71.3	19.0	9.5	4.8	0.0	0.0	0.0
65°	11885.6	5641.0	114.1	95.0	42.8	14.3	4.8	0.0	0.0	0.0	0.0
67.5°	11785.8	5123.0	71.3	61.8	19.0	9.5	4.8	0.0	0.0	0.0	0.0
70°	10635.7	4201.1	52.3	38.0	14.3	4.8	0.0	0.0	0.0	0.0	0.0
72.5°	7665.5	2841.9	38.0	23.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0
75°	3687.8	1012.2	23.8	19.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	902.9	223.4	14.3	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	199.6	42.8	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.5	19.0	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.8	9.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	4.8	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)