

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: P381266

Luminaire Tested: **PRV-XL-PA4A-750-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
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-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25049 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

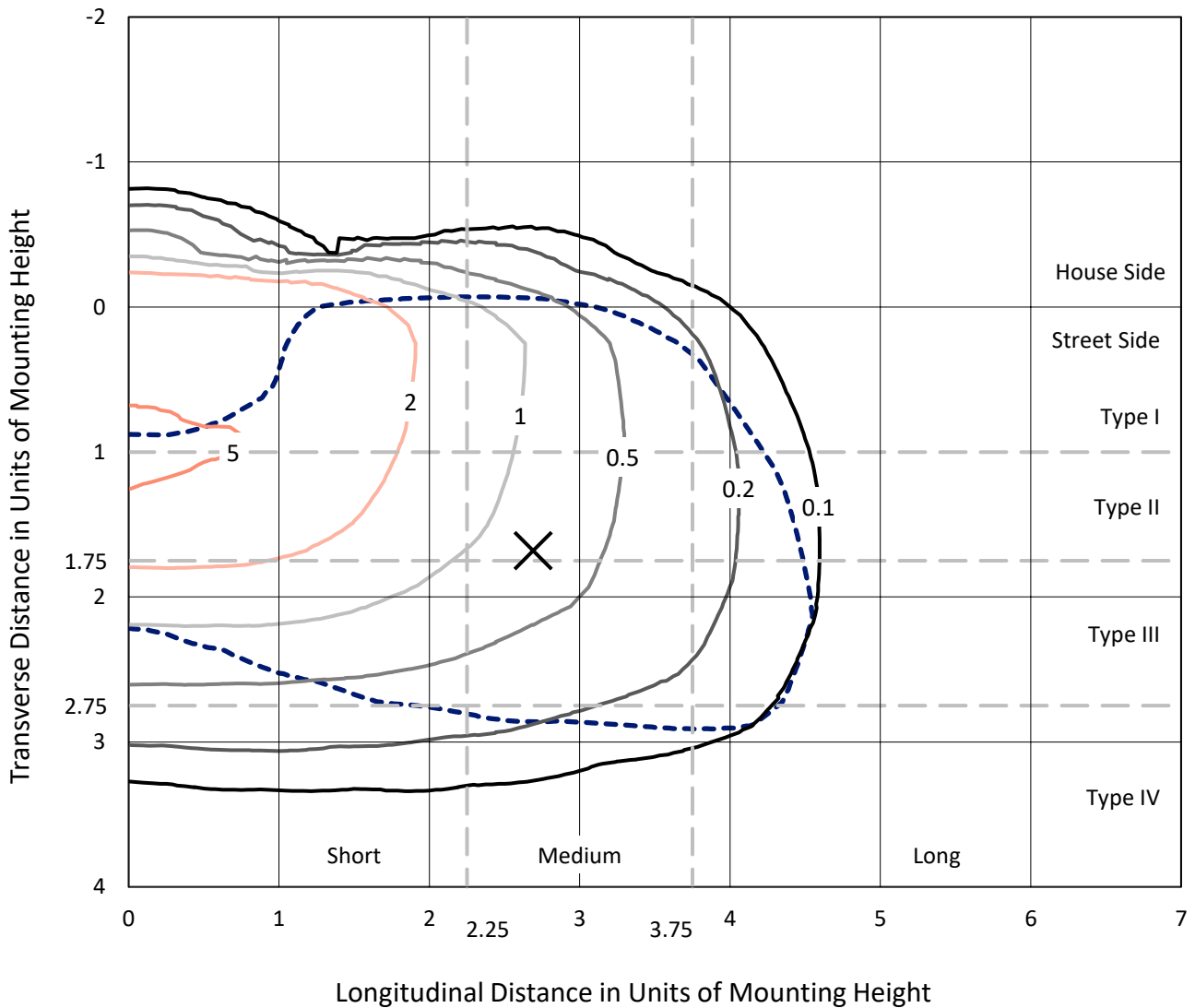
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

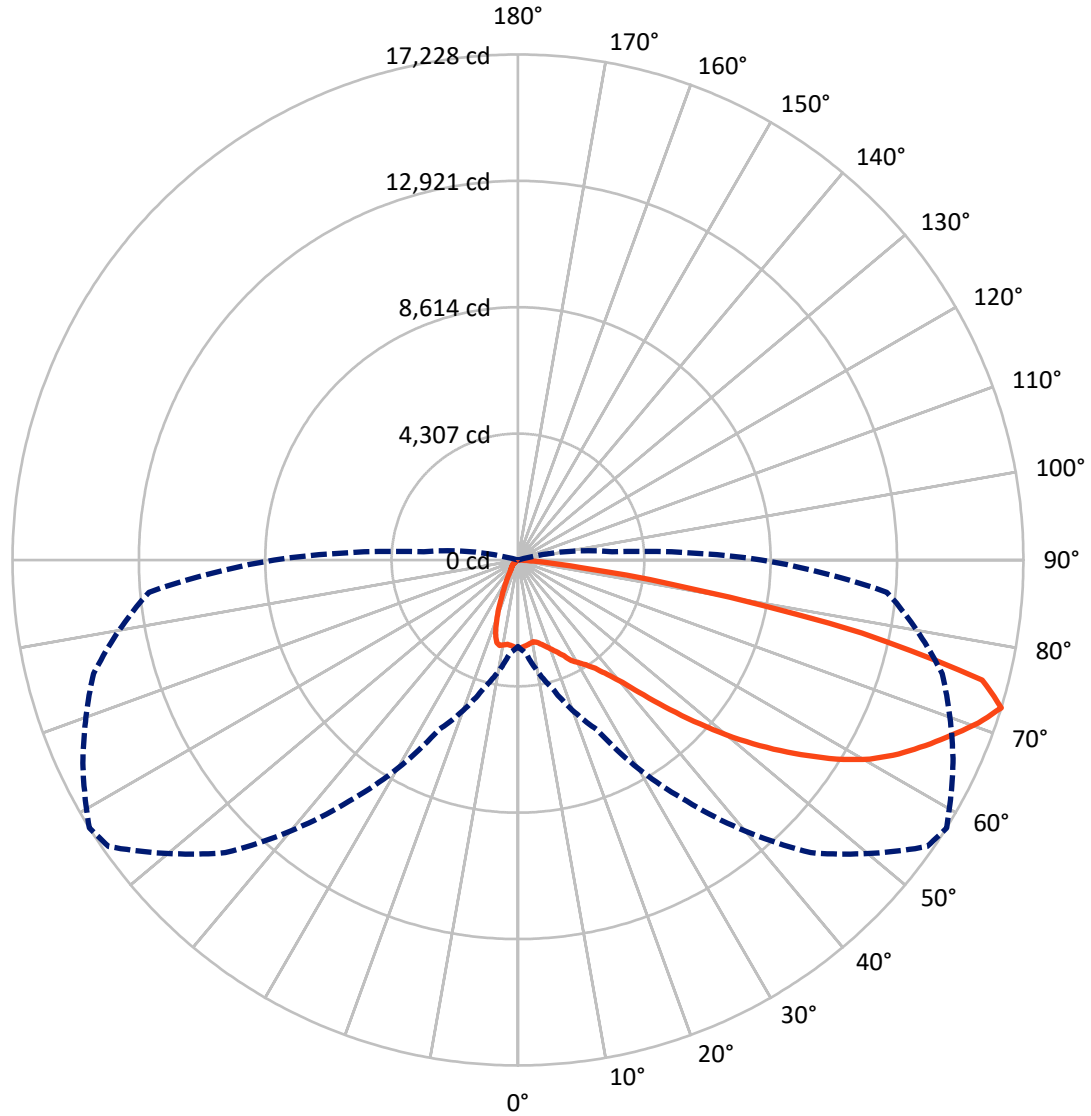
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2435.8	0.0	2435.8
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	22613.2	0.0	22613.2
	% Fixture	90.3	0.0	90.3
Total	Lumens	25049.0	0.0	25049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.9	1.1
10°-20°	718.5	2.9
20°-30°	1128.7	4.5
30°-40°	1946.5	7.8
40°-50°	3703.3	14.8
50°-60°	5864.9	23.4
60°-70°	6843.7	27.3
70°-80°	4286.2	17.1
80°-90°	281.3	1.1
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°	25049.0	100.0
0°-180°	25049.0	100.0

Coefficient of Utilization



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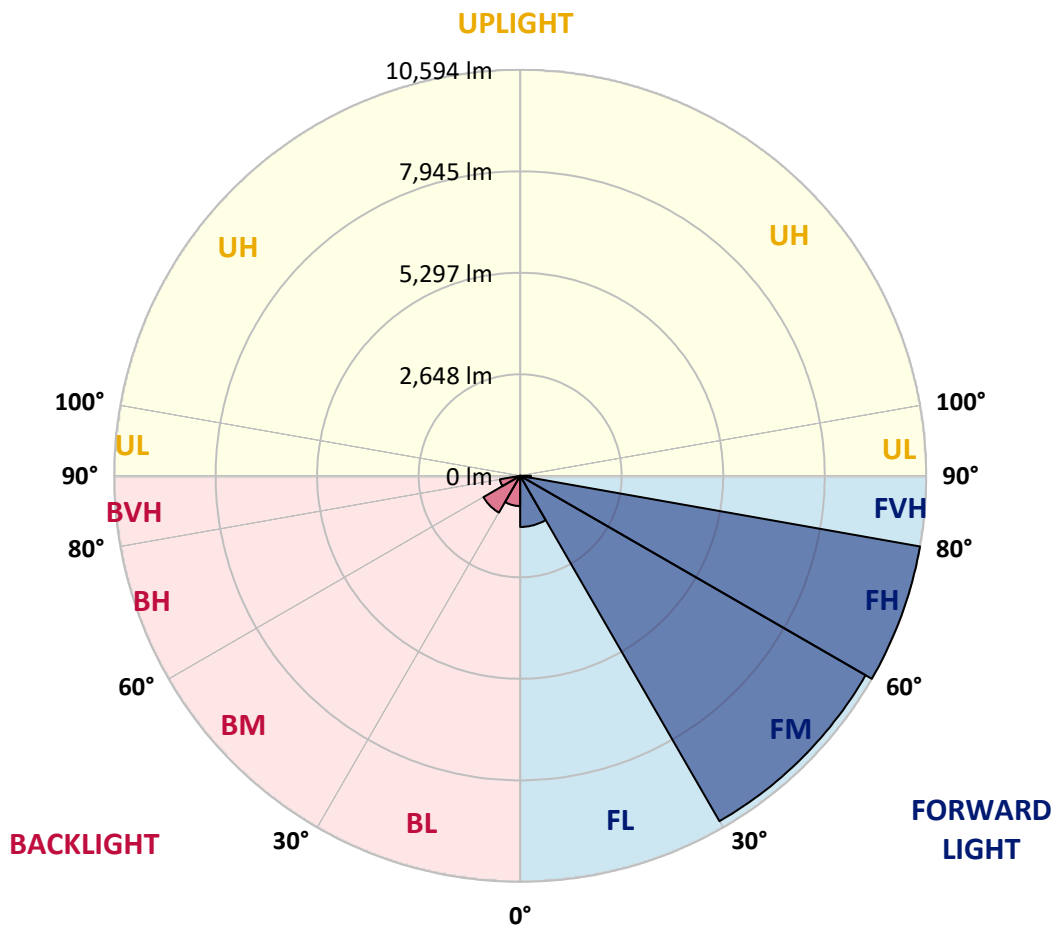
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1334.2	5.3			
FM (30°-60°)	10406.4	41.5			
FH (60°-80°)	10593.9	42.3			G4/12000
FVH (80°-90°)	278.6	1.1			G3/500
BL (0°-30°)	788.8	3.1	B2/1000		
BM (30°-60°)	1108.3	4.4	B2/2500		
BH (60°-80°)	536.0	2.1	B2/1000		G2/1000
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7
2.5°	2992.3	2978.9	2974.4	2969.9	2974.4	2978.9	2965.4	2978.9	2969.9	2974.4	2983.3
5°	2884.8	2871.3	2866.9	2871.3	2884.8	2907.2	2916.1	2929.6	2929.6	2943.0	2947.5
7.5°	2763.8	2754.9	2750.4	2759.4	2786.2	2835.5	2862.4	2880.3	2898.2	2925.1	2952.0
10°	2696.6	2692.2	2687.7	2701.1	2728.0	2772.8	2808.6	2835.5	2902.7	2978.9	3028.1
12.5°	2651.8	2651.8	2660.8	2687.7	2723.5	2759.4	2844.5	2880.3	2983.3	3099.8	3167.0
15°	2616.0	2616.0	2629.5	2678.7	2728.0	2813.1	2938.5	2978.9	3099.8	3243.1	3332.7
17.5°	2589.1	2598.1	2607.1	2656.3	2750.4	2893.7	3041.6	3099.8	3247.6	3404.4	3502.9
20°	2593.6	2602.6	2607.1	2656.3	2790.7	2987.8	3175.9	3243.1	3413.4	3579.1	3677.6
22.5°	2620.5	2633.9	2638.4	2705.6	2862.4	3086.4	3328.2	3404.4	3588.1	3762.8	3838.9
25°	2732.5	2741.4	2714.6	2772.8	2965.4	3238.7	3525.3	3606.0	3789.6	3950.9	4013.6
27.5°	3113.2	3122.2	2974.4	2907.2	3046.0	3364.1	3767.2	3879.2	4107.7	4215.2	4224.1
30°	3937.5	3946.4	3655.3	3337.2	3238.7	3471.6	3901.6	4058.4	4354.0	4475.0	4421.2
32.5°	4999.1	4990.1	4591.5	4121.1	3695.6	3659.7	4094.2	4260.0	4582.5	4699.0	4658.7
35°	6065.2	6078.6	5738.2	5030.4	4421.2	4013.6	4340.6	4533.2	4922.9	5088.7	5017.0
37.5°	6795.4	6885.0	6737.1	5971.1	5312.7	4667.6	4739.3	4945.3	5433.6	5657.6	5505.3
40°	7825.6	7803.2	7444.9	6880.5	6298.1	5635.2	5384.3	5482.9	6042.8	6342.9	6105.5
42.5°	9209.8	9165.0	8555.8	8004.8	7355.3	6813.3	6302.6	6284.7	6741.6	7091.0	6746.1
45°	10464.1	10396.9	9980.3	9447.2	8735.0	8112.3	7422.5	7265.7	7583.8	7879.4	7476.2
47.5°	11463.0	11351.0	11055.3	10773.1	10598.4	9630.9	8596.1	8358.7	8520.0	8739.5	8170.6
50°	12645.6	12336.5	11906.4	11736.2	12099.1	11351.0	9724.9	9496.5	9487.5	9613.0	8887.3
52.5°	13183.1	12623.2	12381.3	12524.6	13165.2	12950.2	10943.4	10616.4	10486.4	10499.9	9554.7
55°	12533.6	12470.9	12600.8	13048.7	13886.4	13760.9	12112.5	11709.3	11516.7	11274.8	10195.3
57.5°	11794.5	11987.1	12502.2	13357.8	14800.2	14607.6	13263.7	12806.8	12452.9	11897.5	10907.5
60°	11113.6	11310.7	12161.8	13429.5	15301.9	15422.8	14222.3	13787.8	13263.7	12533.6	11691.4
62.5°	10078.8	10231.1	11427.1	13326.4	15082.4	15897.7	14889.8	14562.8	14074.5	13138.3	12591.8
65°	8914.2	9012.7	10195.3	12502.2	14652.4	15843.9	15440.7	15257.1	14782.3	13769.9	13483.2
67.5°	7637.5	7754.0	8739.5	11019.5	13810.2	15593.1	15960.4	15942.4	15400.4	14468.7	14128.3
70°	6168.2	6177.2	6992.5	9138.1	12341.0	15091.3	16605.4	16645.7	15991.7	14992.8	14155.1
72.5°	2952.0	3193.9	4533.2	6378.8	10029.5	14105.9	17026.5	17228.1	16363.5	14974.9	12627.6
75°	676.4	698.8	1321.4	3032.6	5881.5	10826.9	15973.8	16350.1	15458.7	12950.2	8896.2
77.5°	246.4	259.8	371.8	886.9	2262.1	5594.9	11431.6	11982.6	11427.1	8372.1	4206.2
80°	165.7	161.3	192.6	394.2	1039.2	1585.7	5845.7	6172.7	5635.2	2857.9	1007.9
82.5°	85.1	89.6	134.4	219.5	698.8	551.0	1953.1	2123.3	1747.0	573.4	188.1
85°	40.3	40.3	76.2	138.9	295.6	192.6	434.5	524.1	470.3	250.9	62.7
87.5°	40.3	40.3	71.7	89.6	152.3	80.6	107.5	134.4	125.4	134.4	22.4
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°	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7	3005.7
2.5°	2983.3	2978.9	2974.4	2983.3	2978.9	2987.8	2987.8	2996.8	2996.8	2987.8	2983.3
5°	2943.0	2934.1	2925.1	2925.1	2920.6	2929.6	2956.5	2978.9	2983.3	2969.9	2965.4
7.5°	2947.5	2947.5	2938.5	2920.6	2889.3	2889.3	2889.3	2916.1	2929.6	2920.6	2916.1
10°	3028.1	3032.6	3010.2	2969.9	2916.1	2866.9	2772.8	2633.9	2504.0	2468.2	2454.8
12.5°	3167.0	3171.5	3126.7	3055.0	2943.0	2651.8	2293.5	1962.0	1706.7	1635.0	1621.6
15°	3332.7	3337.2	3256.6	3140.1	2799.7	2123.3	1590.2	1213.9	990.0	936.2	931.7
17.5°	3502.9	3494.0	3373.0	3149.1	2374.1	1505.1	967.6	774.9	716.7	703.3	707.8
20°	3668.7	3641.8	3476.1	2983.3	1827.6	985.5	707.8	663.0	649.5	640.6	640.6
22.5°	3821.0	3767.2	3561.2	2656.3	1281.1	707.8	631.6	622.6	604.7	591.3	586.8
25°	3973.3	3897.1	3614.9	2230.8	860.1	618.2	595.8	577.9	555.5	537.5	533.1
27.5°	4157.0	4049.4	3588.1	1693.2	645.0	573.4	555.5	528.6	497.2	470.3	461.4
30°	4331.7	4210.7	3435.8	1169.1	551.0	528.6	501.7	461.4	421.1	389.7	380.8
32.5°	4551.1	4412.3	3162.5	766.0	479.3	461.4	434.5	385.2	331.5	295.6	286.7
35°	4864.7	4707.9	2813.1	537.5	421.1	389.7	353.9	300.1	241.9	215.0	210.5
37.5°	5303.7	5093.2	2374.1	434.5	371.8	327.0	273.2	219.5	179.2	156.8	152.3
40°	5841.2	5518.7	1885.9	385.2	331.5	273.2	206.1	156.8	129.9	112.0	112.0
42.5°	6423.6	5917.4	1388.6	353.9	291.2	224.0	152.3	112.0	94.1	85.1	80.6
45°	7023.8	6271.3	936.2	327.0	255.3	170.2	107.5	76.2	62.7	62.7	58.2
47.5°	7646.5	6508.7	604.7	295.6	215.0	125.4	71.7	53.8	44.8	44.8	44.8
50°	8264.6	6634.1	430.0	268.8	174.7	85.1	53.8	40.3	35.8	35.8	35.8
52.5°	8712.6	6553.5	344.9	232.9	134.4	62.7	40.3	31.4	26.9	26.9	26.9
55°	9102.3	6414.6	300.1	201.6	98.5	44.8	31.4	26.9	22.4	22.4	22.4
57.5°	9501.0	6235.4	268.8	170.2	71.7	31.4	22.4	17.9	17.9	17.9	17.9
60°	9863.8	5930.8	232.9	134.4	49.3	22.4	17.9	13.4	13.4	13.4	13.4
62.5°	10217.7	5671.0	201.6	103.0	35.8	17.9	9.0	9.0	4.5	4.5	4.5
65°	10419.3	5321.6	161.3	67.2	22.4	13.4	4.5	4.5	0.0	0.0	0.0
67.5°	10356.5	4905.0	112.0	40.3	13.4	9.0	4.5	0.0	0.0	0.0	0.0
70°	9922.0	4345.1	67.2	22.4	13.4	9.0	4.5	0.0	0.0	0.0	0.0
72.5°	8309.4	3216.3	40.3	17.9	9.0	4.5	0.0	0.0	0.0	0.0	0.0
75°	5550.1	1478.2	22.4	13.4	4.5	4.5	0.0	0.0	0.0	0.0	0.0
77.5°	2539.9	443.5	13.4	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	510.7	116.5	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	107.5	22.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.4	9.0	0.0	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)