

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: P381384

Luminaire Tested: **PRV-XL-PA3A-740-U-T2U-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381384
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-PA3A-740-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 750mA 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: 17217 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

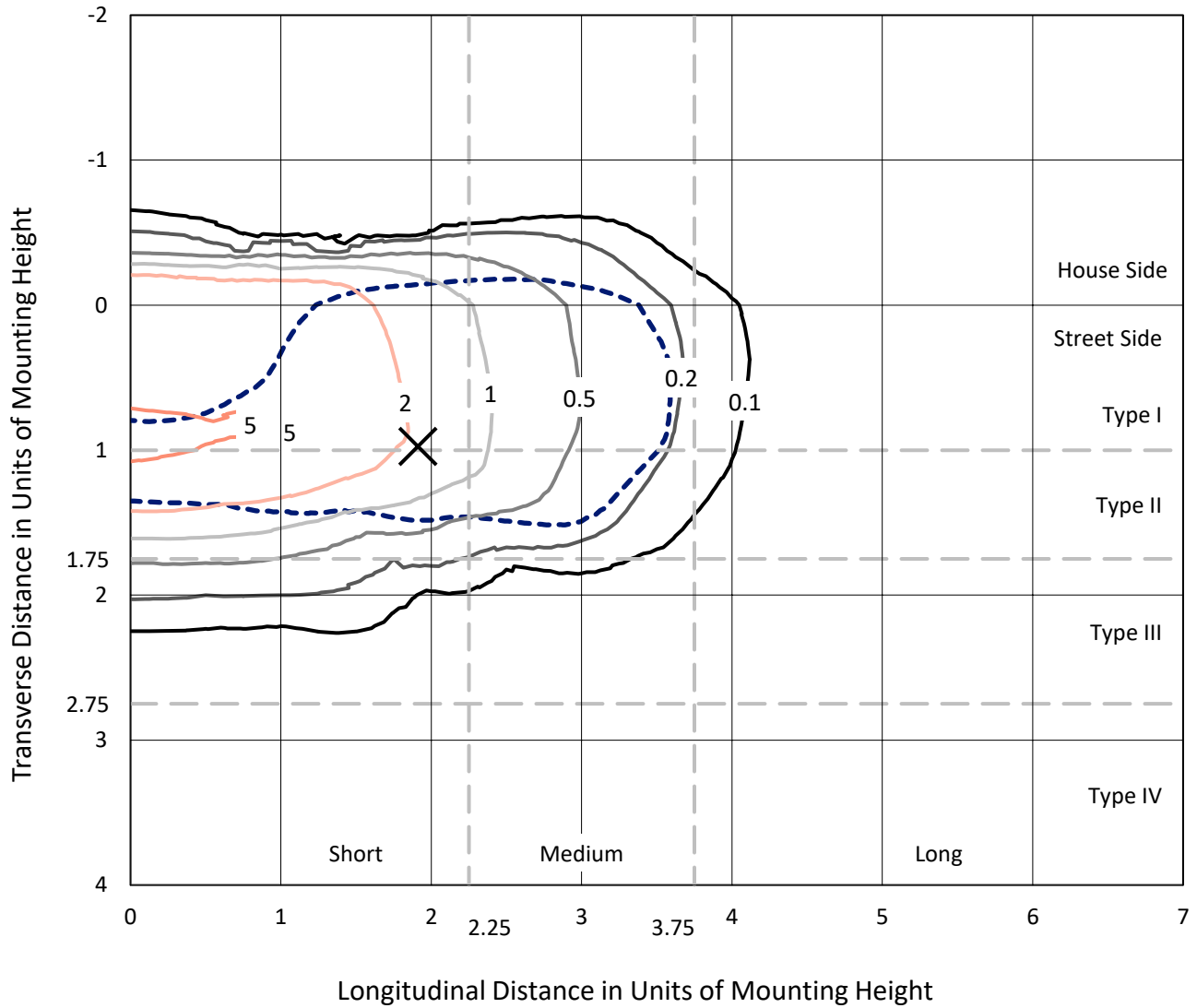
Input Watts (W): 172
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

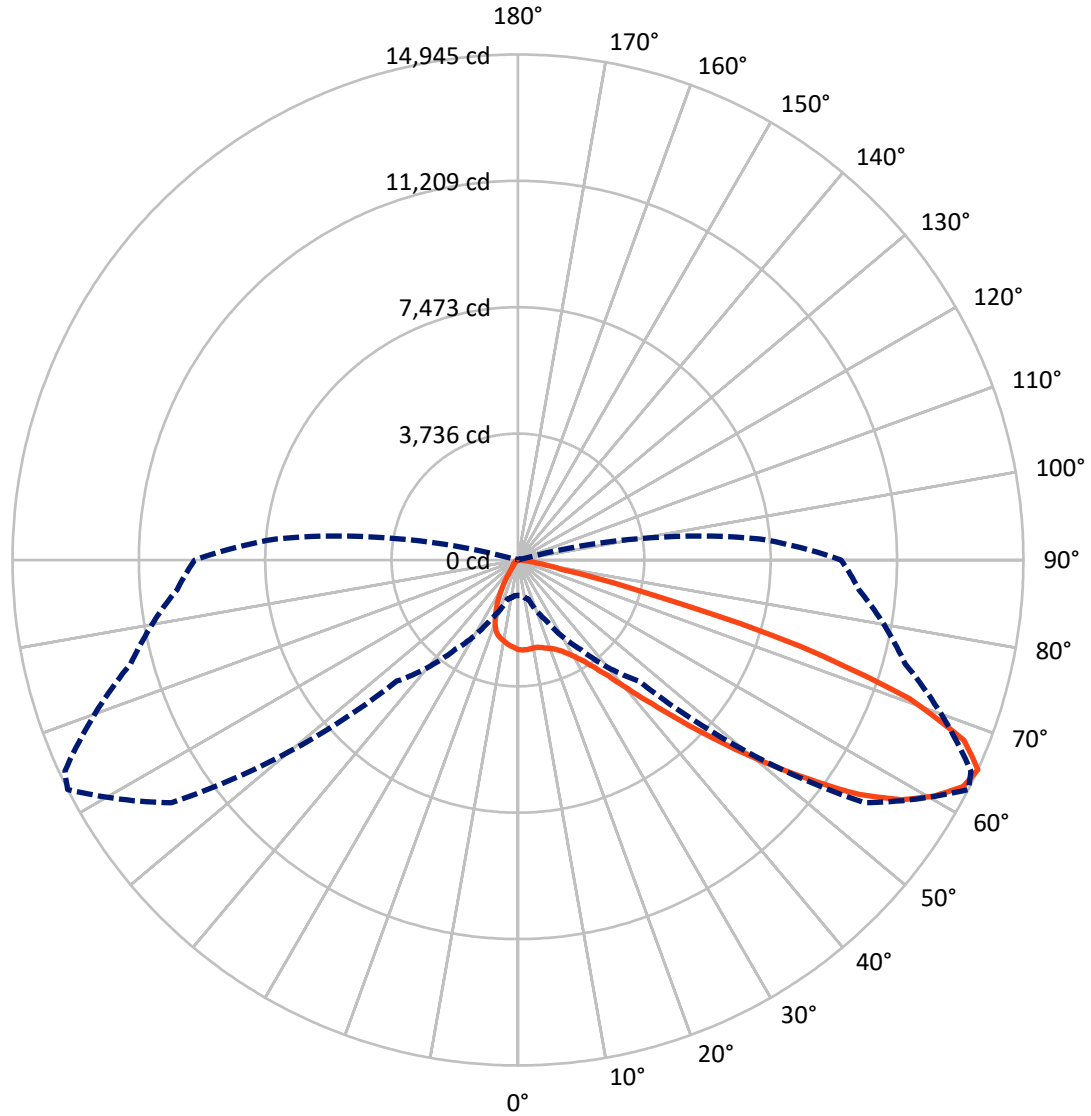
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type 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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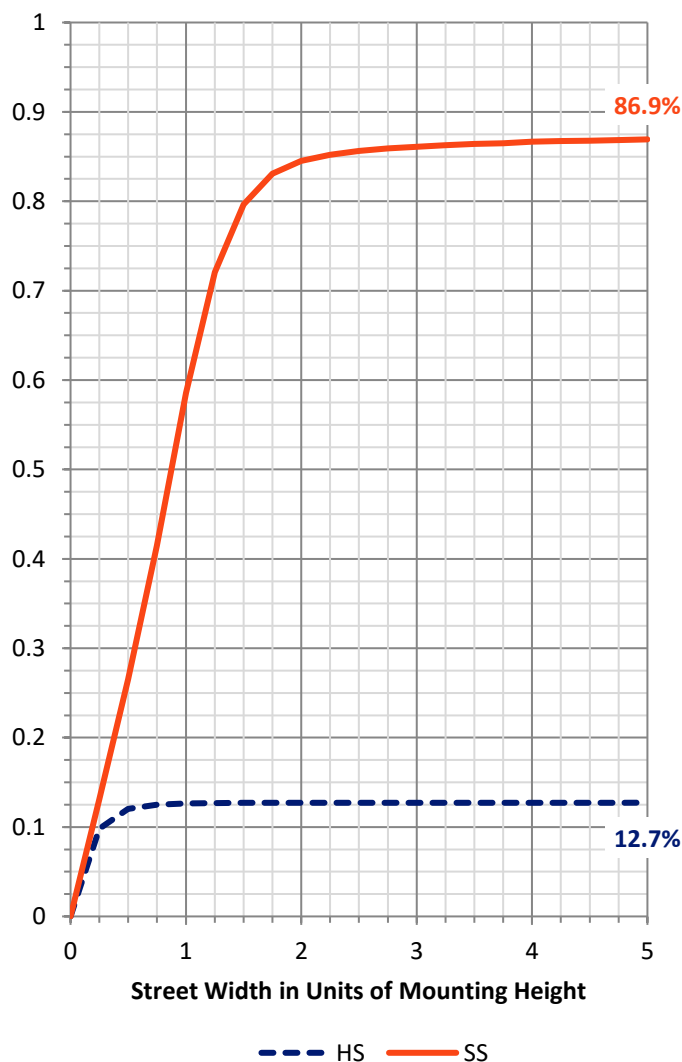
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2215.8	0.0	2215.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	15001.2	0.0	15001.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	17217.0	0.0	17217.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	1.4
10°-20°	597.0	3.5
20°-30°	884.9	5.1
30°-40°	1643.0	9.5
40°-50°	3480.7	20.2
50°-60°	4812.9	28.0
60°-70°	3852.9	22.4
70°-80°	1600.8	9.3
80°-90°	102.8	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°	17217.0	100.0
0°-180°	17217.0	100.0

Coefficient of Utilization



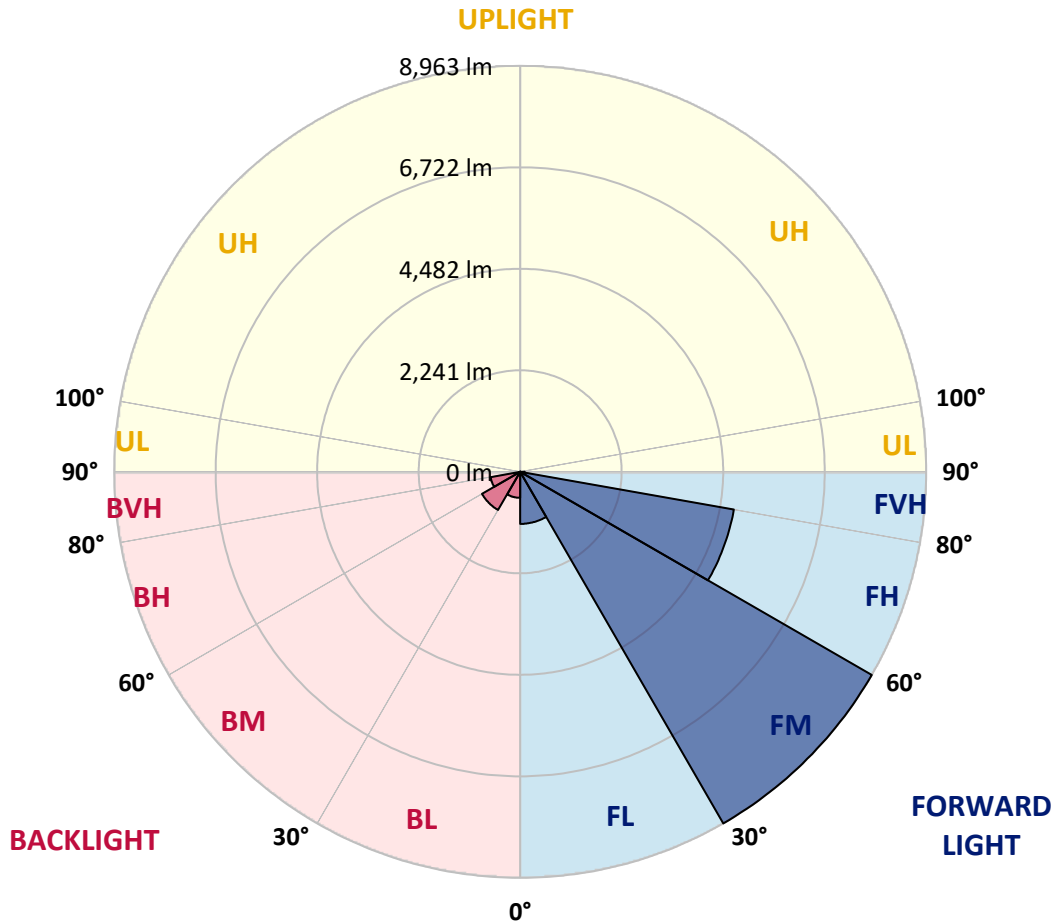
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.7	6.7			
FM (30°-60°)	8963.2	52.1			
FH (60°-80°)	4790.2	27.8			G2/5000
FVH (80°-90°)	98.1	0.6			G1/100
BL (0°-30°)	574.3	3.3	B2/1000		
BM (30°-60°)	973.4	5.7	B1/1000		
BH (60°-80°)	663.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3
2.5°	2697.8	2691.3	2684.8	2681.5	2681.5	2678.3	2665.3	2662.0	2655.5	2649.0	2642.5
5°	2671.8	2662.0	2658.8	2662.0	2665.3	2671.8	2665.3	2665.3	2658.8	2652.3	2639.3
7.5°	2606.8	2600.3	2603.5	2613.3	2616.5	2639.3	2642.5	2652.3	2652.3	2645.8	2636.0
10°	2528.8	2525.5	2525.5	2541.8	2558.0	2590.5	2613.3	2639.3	2642.5	2642.5	2626.3
12.5°	2470.3	2467.0	2476.8	2496.3	2528.8	2571.0	2610.0	2649.0	2655.5	2658.8	2632.8
15°	2434.5	2434.5	2447.5	2486.5	2532.0	2590.5	2636.0	2688.0	2694.5	2691.3	2655.5
17.5°	2402.0	2405.3	2431.3	2496.3	2548.3	2626.3	2681.5	2740.0	2743.3	2740.0	2681.5
20°	2389.0	2395.5	2434.5	2519.0	2577.5	2665.3	2736.8	2795.3	2798.6	2785.6	2707.5
22.5°	2424.8	2428.0	2476.8	2567.8	2623.0	2720.5	2811.6	2866.8	2870.1	2850.6	2746.5
25°	2548.3	2548.3	2590.5	2668.5	2717.3	2814.8	2912.3	2977.3	2977.3	2954.6	2834.3
27.5°	2837.6	2811.6	2801.8	2824.6	2840.8	2944.8	3048.8	3130.1	3126.8	3094.3	2948.1
30°	3396.6	3331.6	3227.6	3110.6	3052.1	3123.6	3221.1	3325.1	3321.9	3269.9	3087.8
32.5°	4336.0	4241.7	3994.7	3685.9	3435.6	3354.4	3445.4	3559.1	3562.4	3500.6	3312.1
35°	5652.4	5502.8	5060.8	4631.8	4059.7	3750.9	3776.9	3900.4	3939.4	3906.9	3689.2
37.5°	6920.0	6783.5	6360.9	5766.1	4989.3	4358.7	4248.2	4355.5	4401.0	4401.0	4170.2
40°	8197.4	8038.1	7664.3	7066.3	6247.2	5307.8	4911.3	4999.0	5047.8	5057.5	4755.3
42.5°	9221.3	9117.2	8831.2	8366.4	7599.3	6972.0	5866.9	5818.1	5863.6	5827.9	5434.6
45°	9929.8	9848.6	9650.3	9474.8	9101.0	8785.7	7144.3	6816.0	6845.2	6721.7	6198.4
47.5°	10076.1	9985.1	9942.8	10186.6	10453.1	10531.1	8714.2	8002.4	7973.1	7700.1	6991.5
50°	9439.0	9448.8	9604.8	10300.4	11412.0	12114.1	10534.4	9341.5	9234.3	8626.4	7729.3
52.5°	8064.1	8220.1	8613.4	9741.3	11704.5	13264.7	12354.6	10761.9	10596.2	9526.8	8281.9
55°	6308.9	6510.5	7157.3	8454.2	11093.5	13778.2	13888.8	12237.6	11860.5	10202.9	8710.9
57.5°	4690.3	4752.0	5506.1	6689.2	9647.0	13274.4	14675.3	13375.2	12890.9	10742.4	9136.7
60°	2922.1	2961.1	3757.4	5093.3	7306.8	11412.0	14675.3	14158.5	13697.0	11226.7	9526.8
62.5°	1816.9	1829.9	2129.0	3490.9	4966.5	8463.9	14067.5	14766.4	14395.8	11574.5	9861.6
65°	1046.6	1059.6	1199.4	1973.0	3230.9	5067.3	12513.9	14945.1	14779.4	11850.8	10121.6
67.5°	763.8	770.3	825.6	1108.4	2112.7	2603.5	9400.0	14226.8	14434.8	11987.3	10115.1
70°	663.1	672.8	744.3	864.6	1524.4	1599.2	4784.5	12286.3	12868.1	11792.3	9812.8
72.5°	510.3	523.3	630.6	812.6	1118.1	1150.6	1732.4	8743.4	9624.3	10573.4	8984.0
75°	351.0	364.0	471.3	669.6	923.1	861.3	952.4	4023.9	5077.1	7092.3	6838.7
77.5°	224.3	227.5	295.8	487.6	796.3	611.1	653.3	1313.1	1843.0	3208.1	3227.6
80°	149.5	152.8	182.0	315.3	546.1	565.6	403.0	607.8	666.3	936.1	650.1
82.5°	91.0	91.0	123.5	198.3	331.5	468.1	263.3	318.5	341.3	360.8	169.0
85°	35.8	35.8	74.8	130.0	208.0	217.8	165.8	185.3	195.0	211.3	78.0
87.5°	9.8	9.8	42.3	71.5	91.0	100.8	100.8	91.0	97.5	120.3	39.0
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°	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3	2652.3
2.5°	2639.3	2629.5	2616.5	2603.5	2590.5	2580.8	2571.0	2571.0	2564.5	2554.8	2548.3
5°	2632.8	2616.5	2587.3	2564.5	2528.8	2502.8	2483.3	2467.0	2457.3	2434.5	2431.3
7.5°	2623.0	2603.5	2561.3	2515.8	2457.3	2411.8	2366.3	2333.8	2301.2	2275.2	2268.7
10°	2606.8	2584.0	2522.3	2457.3	2376.0	2291.5	2184.2	2060.7	1947.0	1882.0	1862.5
12.5°	2606.8	2577.5	2496.3	2408.5	2291.5	2083.5	1810.4	1537.4	1326.1	1231.9	1205.9
15°	2623.0	2584.0	2476.8	2356.5	2138.7	1716.2	1274.1	913.3	682.6	611.1	594.8
17.5°	2639.3	2584.0	2447.5	2285.0	1859.2	1244.9	724.8	481.1	406.3	390.0	390.0
20°	2645.8	2577.5	2408.5	2151.7	1485.4	773.6	432.3	360.8	331.5	321.8	321.8
22.5°	2671.8	2580.8	2379.3	1960.0	1079.1	455.0	341.3	302.3	273.0	263.3	263.3
25°	2736.8	2619.8	2385.8	1716.2	692.3	344.5	289.3	250.3	221.0	208.0	208.0
27.5°	2840.8	2707.5	2421.5	1433.4	435.5	295.8	243.8	201.5	178.8	165.8	165.8
30°	2957.8	2805.1	2437.8	1108.4	325.0	250.3	198.3	159.3	143.0	133.3	130.0
32.5°	3162.6	2974.1	2424.8	760.6	266.5	211.3	159.3	126.8	113.8	110.5	110.5
35°	3490.9	3269.9	2398.8	477.8	221.0	169.0	126.8	104.0	94.3	91.0	87.8
37.5°	3936.2	3702.2	2320.8	315.3	182.0	133.3	104.0	87.8	78.0	74.8	74.8
40°	4479.0	4196.2	2171.2	240.5	156.0	107.3	87.8	74.8	68.3	65.0	65.0
42.5°	5099.8	4745.5	1934.0	208.0	130.0	91.0	74.8	61.8	58.5	55.3	55.3
45°	5779.1	5320.8	1605.7	185.3	110.5	74.8	61.8	55.3	48.8	48.8	45.5
47.5°	6500.7	5899.4	1235.1	162.5	94.3	65.0	55.3	45.5	42.3	39.0	39.0
50°	7196.3	6416.2	867.8	139.8	78.0	55.3	45.5	39.0	35.8	32.5	32.5
52.5°	7687.1	6728.2	614.3	120.3	65.0	48.8	35.8	29.3	26.0	26.0	26.0
55°	8080.4	6923.3	429.0	100.8	55.3	42.3	29.3	22.8	22.8	19.5	19.5
57.5°	8450.9	7050.0	315.3	84.5	45.5	32.5	22.8	16.3	16.3	13.0	13.0
60°	8834.5	7118.3	240.5	68.3	39.0	26.0	16.3	13.0	9.8	9.8	9.8
62.5°	9221.3	7160.5	185.3	55.3	32.5	19.5	13.0	9.8	6.5	3.3	3.3
65°	9559.3	7173.5	143.0	42.3	26.0	13.0	9.8	3.3	0.0	0.0	0.0
67.5°	9660.0	7024.0	110.5	32.5	19.5	9.8	6.5	0.0	0.0	0.0	0.0
70°	9387.0	6627.5	84.5	26.0	16.3	6.5	3.3	0.0	0.0	0.0	0.0
72.5°	8330.7	5558.1	65.0	16.3	13.0	6.5	3.3	0.0	0.0	0.0	0.0
75°	5961.1	2964.3	45.5	13.0	9.8	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	2743.3	1147.4	32.5	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0
80°	536.3	286.0	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	123.5	48.8	6.5	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.3	16.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.3	6.5	3.3	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)