

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: P381250

Luminaire Tested: **PRV-XL-PA4A-730-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381250
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-730-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 22813 lumens
Efficiency: N/A
Efficacy: 93.1 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

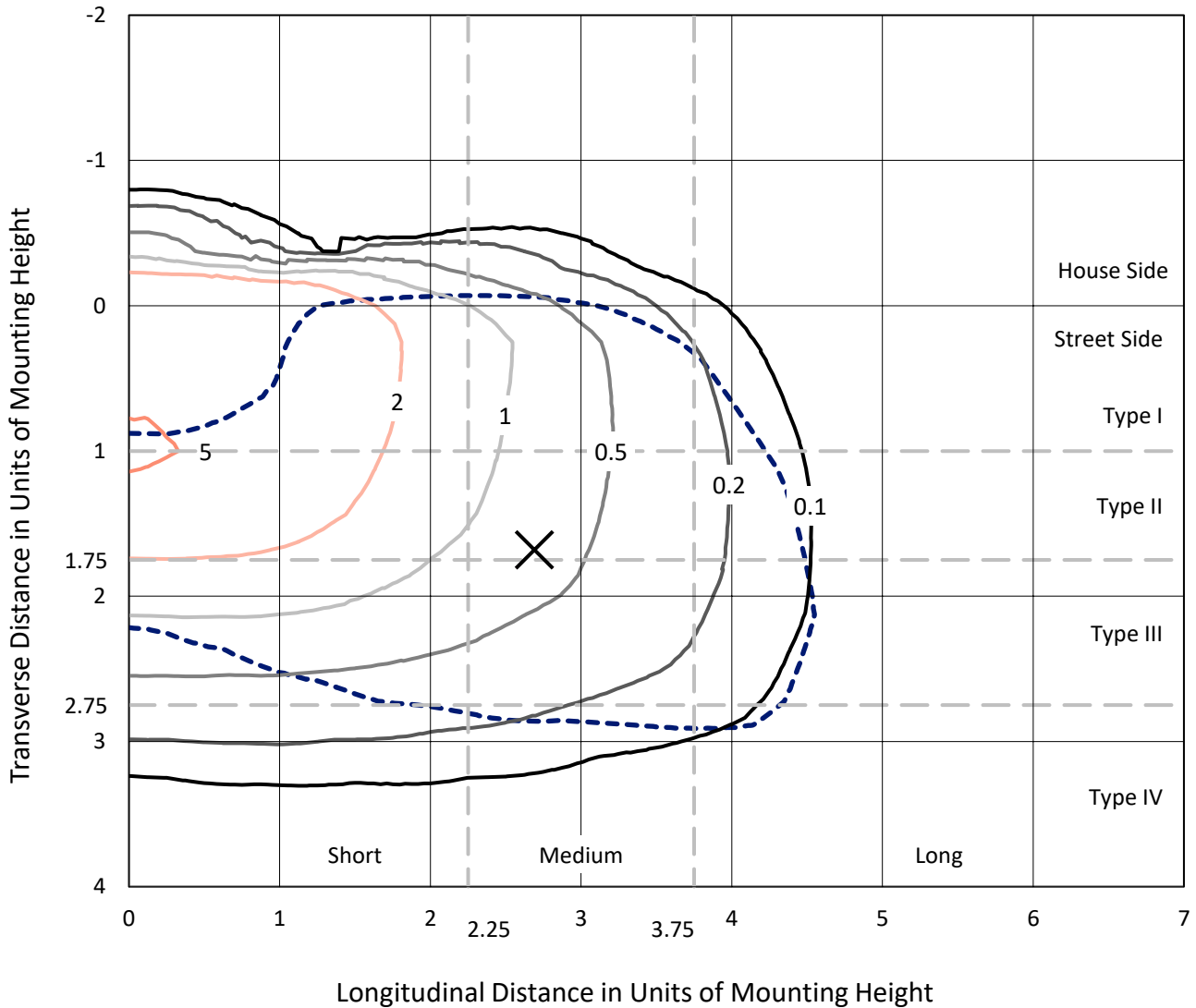
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

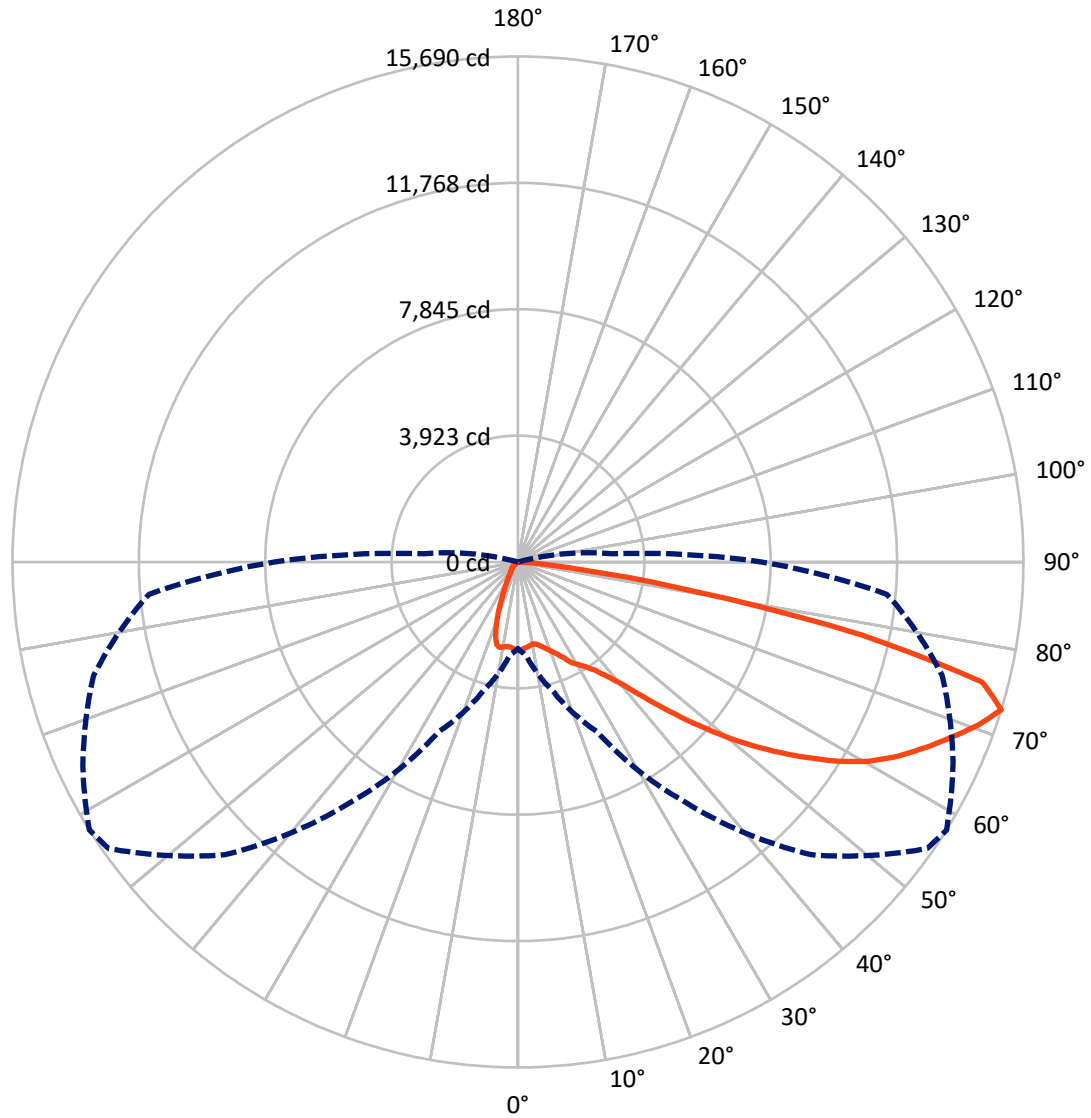
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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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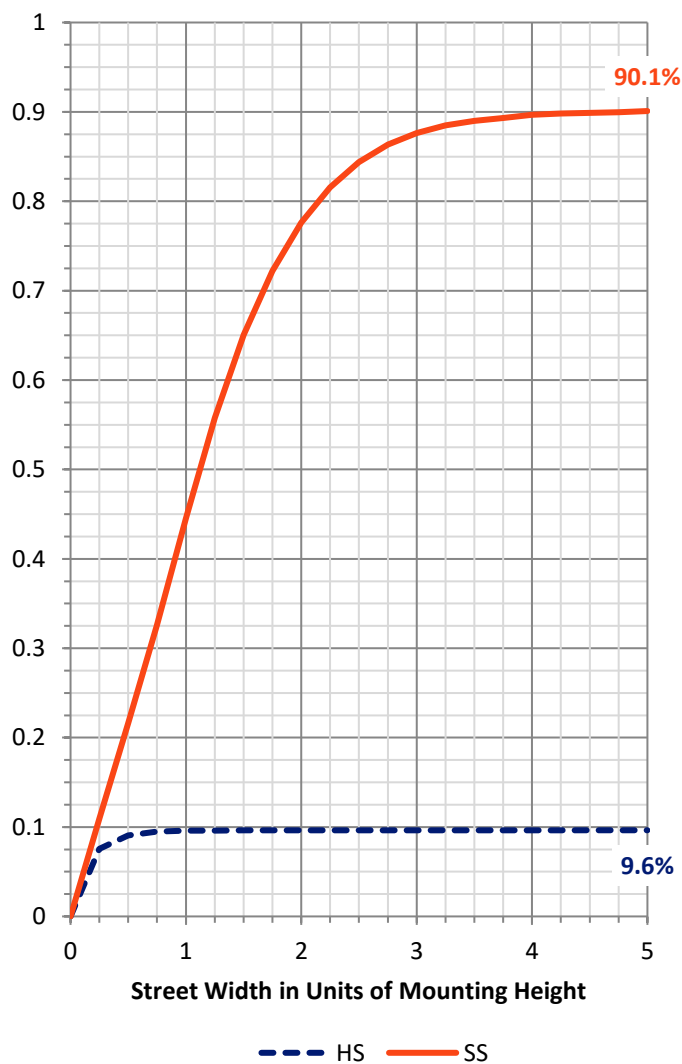
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2218.4	0.0	2218.4
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	20594.6	0.0	20594.6
	% Fixture	90.3	0.0	90.3
Total	Lumens	22813.0	0.0	22813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.2	1.1
10°-20°	654.3	2.9
20°-30°	1027.9	4.5
30°-40°	1772.7	7.8
40°-50°	3372.8	14.8
50°-60°	5341.4	23.4
60°-70°	6232.8	27.3
70°-80°	3903.6	17.1
80°-90°	256.2	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°	22813.0	100.0
0°-180°	22813.0	100.0

Coefficient of Utilization

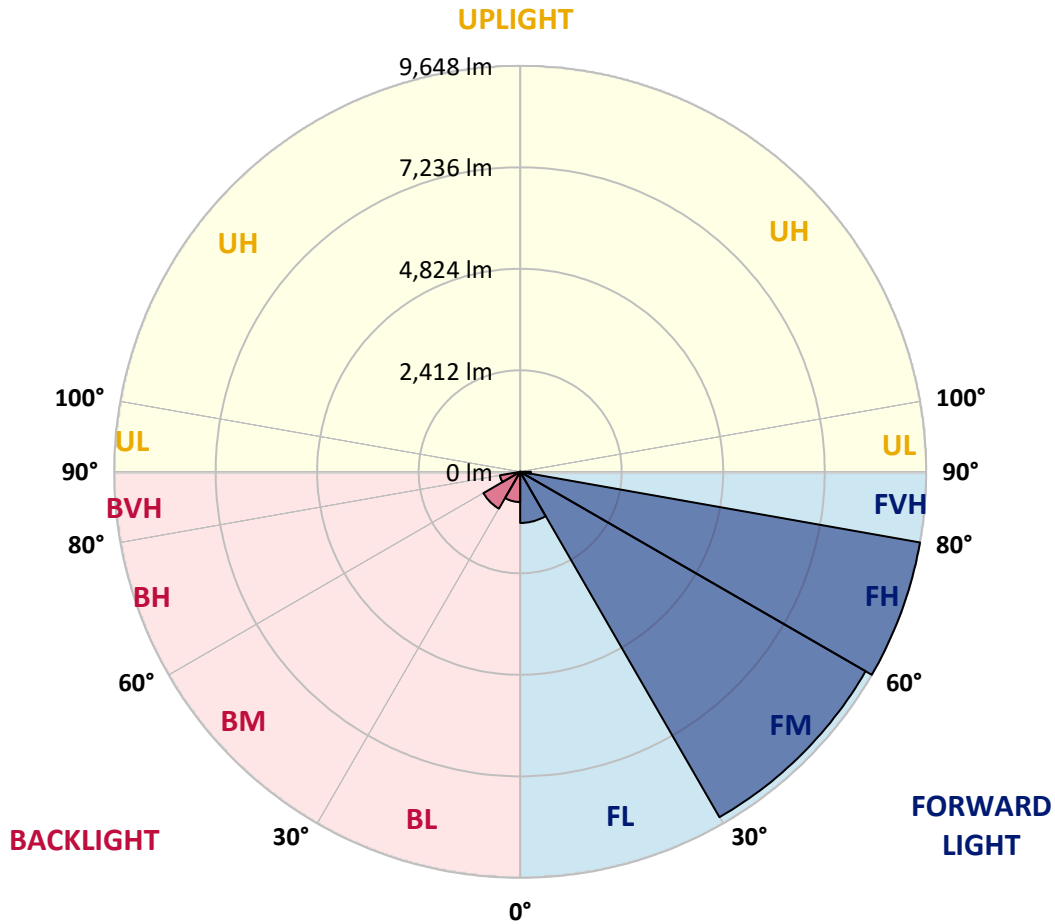


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1215.1	5.3			
FM (30°-60°)	9477.5	41.5			
FH (60°-80°)	9648.3	42.3			G4/12000
FVH (80°-90°)	253.8	1.1			G3/500
BL (0°-30°)	718.4	3.1	B2/1000		
BM (30°-60°)	1009.4	4.4	B2/2500		
BH (60°-80°)	488.1	2.1	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4
2.5°	2725.2	2712.9	2708.9	2704.8	2708.9	2712.9	2700.7	2712.9	2704.8	2708.9	2717.0
5°	2627.3	2615.0	2611.0	2615.0	2627.3	2647.7	2655.8	2668.1	2668.1	2680.3	2684.4
7.5°	2517.1	2509.0	2504.9	2513.0	2537.5	2582.4	2606.9	2623.2	2639.5	2664.0	2688.5
10°	2455.9	2451.8	2447.8	2460.0	2484.5	2525.3	2557.9	2582.4	2643.6	2712.9	2757.8
12.5°	2415.1	2415.1	2423.3	2447.8	2480.4	2513.0	2590.6	2623.2	2717.0	2823.1	2884.3
15°	2382.5	2382.5	2394.7	2439.6	2484.5	2562.0	2676.2	2712.9	2823.1	2953.6	3035.2
17.5°	2358.0	2366.2	2374.3	2419.2	2504.9	2635.4	2770.1	2823.1	2957.7	3100.5	3190.3
20°	2362.1	2370.3	2374.3	2419.2	2541.6	2721.1	2892.4	2953.6	3108.7	3259.6	3349.4
22.5°	2386.6	2398.8	2402.9	2464.1	2606.9	2810.9	3031.2	3100.5	3267.8	3426.9	3496.2
25°	2488.6	2496.7	2472.2	2525.3	2700.7	2949.6	3210.7	3284.1	3451.4	3598.2	3655.3
27.5°	2835.3	2843.5	2708.9	2647.7	2774.1	3063.8	3431.0	3532.9	3741.0	3838.9	3847.1
30°	3586.0	3594.1	3329.0	3039.3	2949.6	3161.7	3553.3	3696.1	3965.4	4075.5	4026.6
32.5°	4552.8	4544.7	4181.6	3753.2	3365.7	3333.0	3728.8	3879.7	4173.4	4279.5	4242.8
35°	5523.8	5536.0	5226.0	4581.4	4026.6	3655.3	3953.1	4128.6	4483.5	4634.4	4569.2
37.5°	6188.8	6270.4	6135.7	5438.1	4838.4	4251.0	4316.2	4503.9	4948.6	5152.6	5013.8
40°	7127.1	7106.7	6780.3	6266.3	5735.9	5132.2	4903.7	4993.4	5503.4	5776.7	5560.5
42.5°	8387.7	8346.9	7792.1	7290.3	6698.7	6205.1	5740.0	5723.7	6139.8	6458.0	6143.9
45°	9530.0	9468.8	9089.4	8603.9	7955.2	7388.2	6759.9	6617.1	6906.8	7176.0	6808.9
47.5°	10439.7	10337.7	10068.5	9811.5	9652.4	8771.2	7828.8	7612.6	7759.4	7959.3	7441.2
50°	11516.8	11235.3	10843.6	10688.6	11019.0	10337.7	8856.8	8648.8	8640.6	8754.9	8094.0
52.5°	12006.3	11496.4	11276.1	11406.6	11990.0	11794.2	9966.5	9668.7	9550.4	9562.6	8701.8
55°	11414.8	11357.6	11476.0	11883.9	12646.8	12532.6	11031.3	10664.1	10488.7	10268.4	9285.2
57.5°	10741.6	10917.0	11386.2	12165.4	13479.0	13303.6	12079.7	11663.6	11341.3	10835.5	9933.9
60°	10121.5	10301.0	11076.2	12230.7	13936.0	14046.1	12952.8	12557.1	12079.7	11414.8	10647.8
62.5°	9179.1	9317.8	10407.1	12136.9	13736.1	14478.5	13560.6	13262.8	12818.1	11965.5	11467.8
65°	8118.4	8208.2	9285.2	11386.2	13344.4	14429.6	14062.4	13895.2	13462.7	12540.7	12279.6
67.5°	6955.7	7061.8	7959.3	10035.9	12577.4	14201.1	14535.7	14519.3	14025.7	13177.2	12867.1
70°	5617.6	5625.8	6368.3	8322.4	11239.3	13744.2	15123.1	15159.8	14564.2	13654.5	12891.6
72.5°	2688.5	2908.8	4128.6	5809.4	9134.3	12846.7	15506.6	15690.2	14902.8	13638.1	11500.4
75°	616.0	636.4	1203.5	2761.9	5356.5	9860.4	14547.9	14890.6	14078.7	11794.2	8102.1
77.5°	224.4	236.6	338.6	807.8	2060.2	5095.4	10411.2	10913.0	10407.1	7624.8	3830.8
80°	150.9	146.9	175.4	359.0	946.5	1444.2	5323.9	5621.7	5132.2	2602.8	917.9
82.5°	77.5	81.6	122.4	199.9	636.4	501.8	1778.7	1933.7	1591.0	522.2	171.3
85°	36.7	36.7	69.4	126.5	269.3	175.4	395.7	477.3	428.4	228.5	57.1
87.5°	36.7	36.7	65.3	81.6	138.7	73.4	97.9	122.4	114.2	122.4	20.4
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°	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4	2737.4
2.5°	2717.0	2712.9	2708.9	2717.0	2712.9	2721.1	2721.1	2729.3	2729.3	2721.1	2717.0
5°	2680.3	2672.1	2664.0	2664.0	2659.9	2668.1	2692.5	2712.9	2717.0	2704.8	2700.7
7.5°	2684.4	2684.4	2676.2	2659.9	2631.4	2631.4	2631.4	2655.8	2668.1	2659.9	2655.8
10°	2757.8	2761.9	2741.5	2704.8	2655.8	2611.0	2525.3	2398.8	2280.5	2247.9	2235.6
12.5°	2884.3	2888.4	2847.6	2782.3	2680.3	2415.1	2088.8	1786.9	1554.3	1489.1	1476.8
15°	3035.2	3039.3	2965.9	2859.8	2549.8	1933.7	1448.3	1105.6	901.6	852.6	848.6
17.5°	3190.3	3182.1	3071.9	2868.0	2162.2	1370.8	881.2	705.8	652.7	640.5	644.6
20°	3341.2	3316.7	3165.8	2717.0	1664.5	897.5	644.6	603.8	591.5	583.4	583.4
22.5°	3479.9	3431.0	3243.3	2419.2	1166.8	644.6	575.2	567.1	550.7	538.5	534.4
25°	3618.6	3549.3	3292.2	2031.6	783.3	563.0	542.6	526.3	505.9	489.6	485.5
27.5°	3785.9	3688.0	3267.8	1542.1	587.5	522.2	505.9	481.4	452.8	428.4	420.2
30°	3945.0	3834.8	3129.1	1064.8	501.8	481.4	456.9	420.2	383.5	354.9	346.8
32.5°	4144.9	4018.4	2880.2	697.6	436.5	420.2	395.7	350.8	301.9	269.3	261.1
35°	4430.5	4287.7	2562.0	489.6	383.5	354.9	322.3	273.3	220.3	195.8	191.7
37.5°	4830.3	4638.5	2162.2	395.7	338.6	297.8	248.9	199.9	163.2	142.8	138.7
40°	5319.8	5026.1	1717.5	350.8	301.9	248.9	187.7	142.8	118.3	102.0	102.0
42.5°	5850.2	5389.2	1264.7	322.3	265.2	204.0	138.7	102.0	85.7	77.5	73.4
45°	6396.8	5711.5	852.6	297.8	232.5	155.0	97.9	69.4	57.1	57.1	53.0
47.5°	6963.9	5927.7	550.7	269.3	195.8	114.2	65.3	49.0	40.8	40.8	40.8
50°	7526.9	6041.9	391.6	244.8	159.1	77.5	49.0	36.7	32.6	32.6	32.6
52.5°	7934.8	5968.5	314.1	212.1	122.4	57.1	36.7	28.6	24.5	24.5	24.5
55°	8289.8	5842.0	273.3	183.6	89.8	40.8	28.6	24.5	20.4	20.4	20.4
57.5°	8652.9	5678.8	244.8	155.0	65.3	28.6	20.4	16.3	16.3	16.3	16.3
60°	8983.3	5401.4	212.1	122.4	44.9	20.4	16.3	12.2	12.2	12.2	12.2
62.5°	9305.6	5164.8	183.6	93.8	32.6	16.3	8.2	8.2	4.1	4.1	4.1
65°	9489.2	4846.6	146.9	61.2	20.4	12.2	4.1	4.1	0.0	0.0	0.0
67.5°	9432.1	4467.2	102.0	36.7	12.2	8.2	4.1	0.0	0.0	0.0	0.0
70°	9036.3	3957.2	61.2	20.4	12.2	8.2	4.1	0.0	0.0	0.0	0.0
72.5°	7567.7	2929.2	36.7	16.3	8.2	4.1	0.0	0.0	0.0	0.0	0.0
75°	5054.6	1346.3	20.4	12.2	4.1	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	2313.1	403.9	12.2	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	465.1	106.1	8.2	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	97.9	20.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	4.1	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)