

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: P380992

Luminaire Tested: **PRV-XL-PA3A-730-U-T4W**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P380992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3A-730-U-T4W
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22153 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

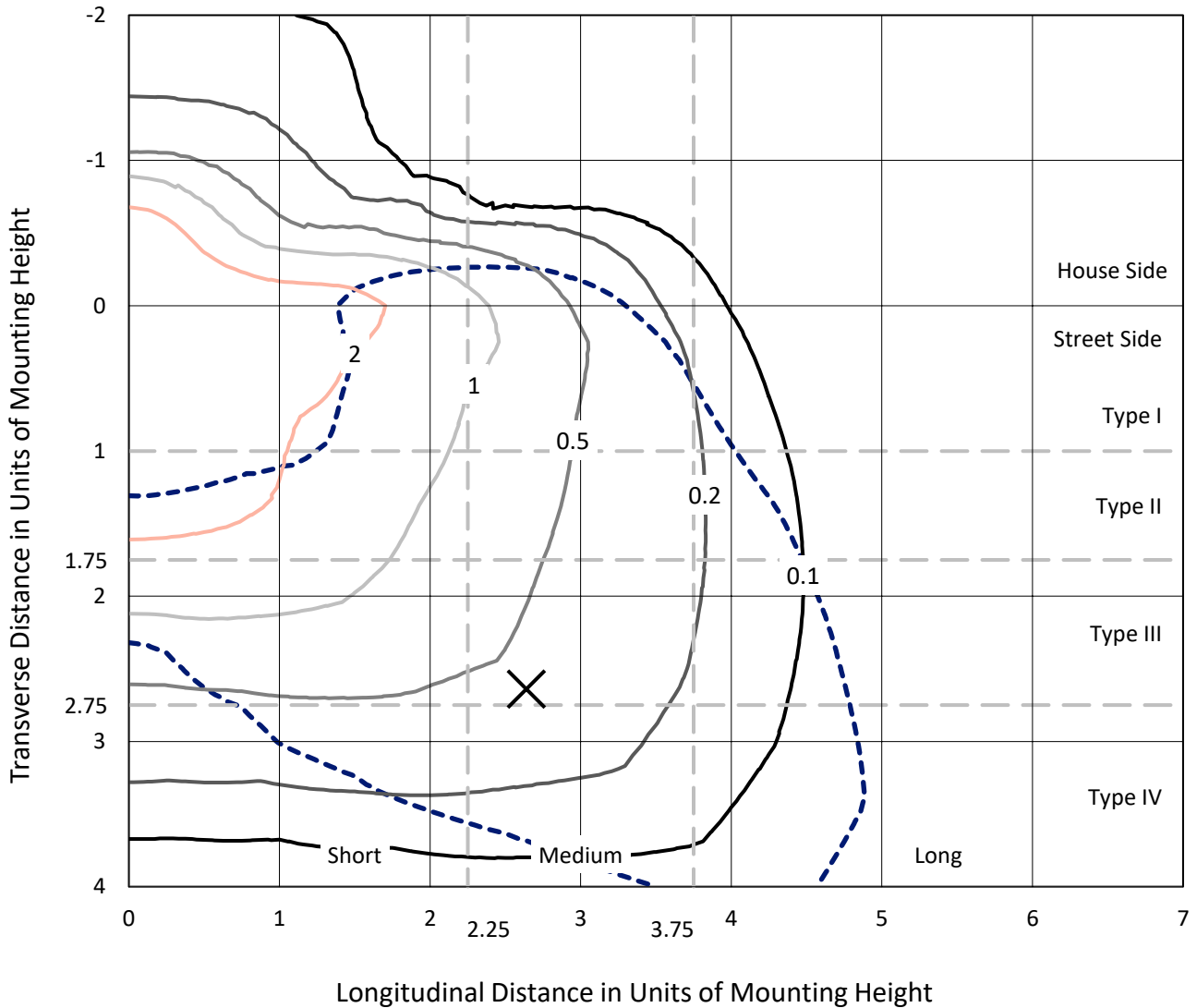
Input Watts (W): 172
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

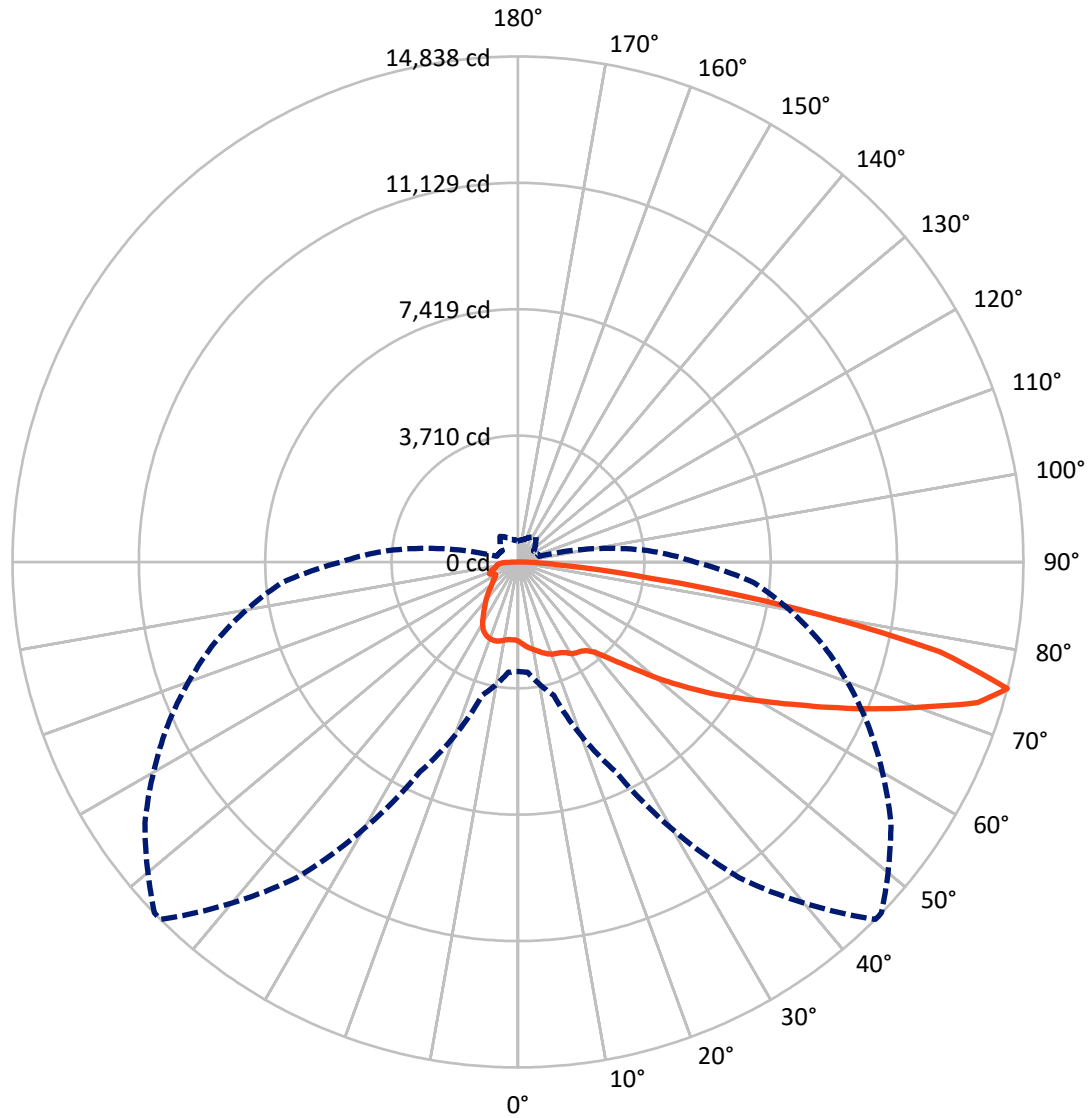
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

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CATALOG NUMBER: PRV-XL-PA3A-730-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4895.7	0.0	4895.7
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	17257.3	0.0	17257.3
	% Fixture	77.9	0.0	77.9
Total	Lumens	22153.0	0.0	22153.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	1.0
10°-20°	732.2	3.3
20°-30°	1248.3	5.6
30°-40°	1749.1	7.9
40°-50°	2569.7	11.6
50°-60°	4089.6	18.5
60°-70°	5817.5	26.3
70°-80°	4871.0	22.0
80°-90°	845.4	3.8
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°	22153.0	100.0
0°-180°	22153.0	100.0

Coefficient of Utilization



REPORT NUMBER: P380992

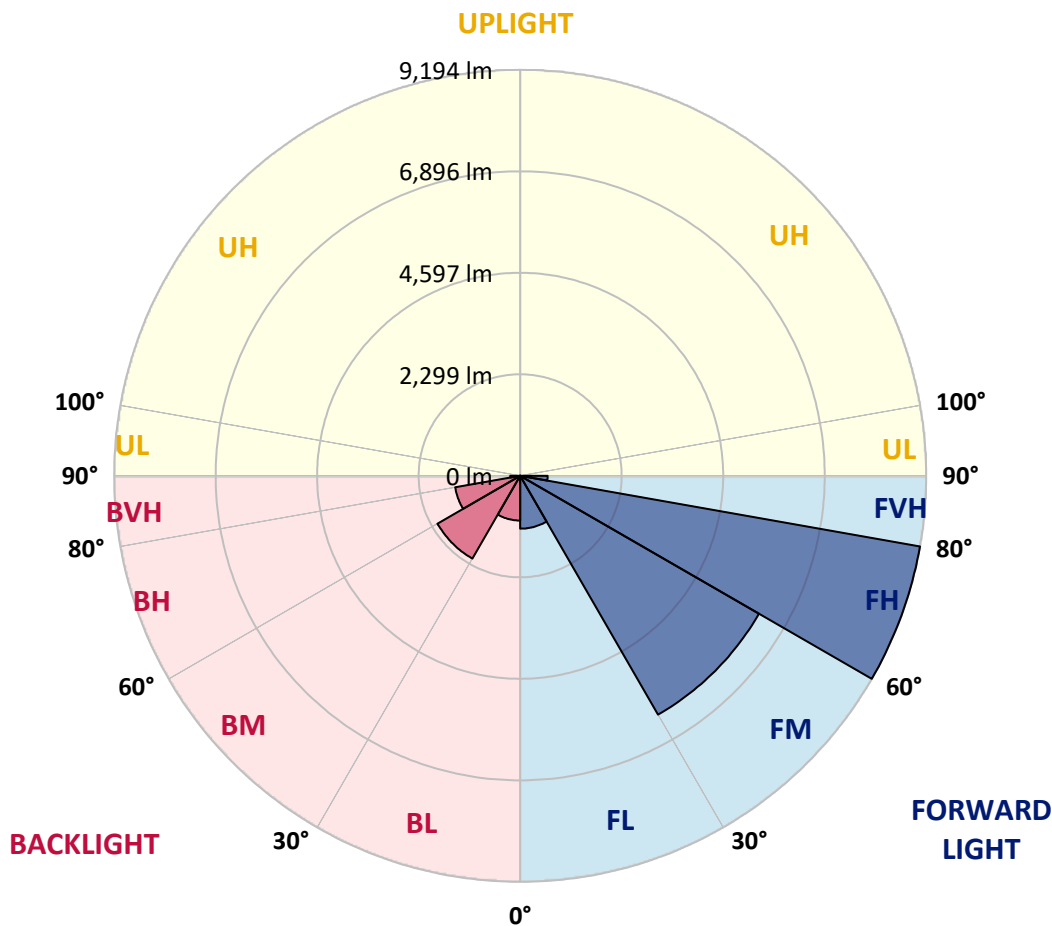
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1197.5	5.4			
FM (30°-60°)	6244.3	28.2			
FH (60°-80°)	9194.0	41.5			G4/12000
FVH (80°-90°)	621.5	2.8			G4/750
BL (0°-30°)	1013.2	4.6	B3/2500		
BM (30°-60°)	2164.1	9.8	B2/2500		
BH (60°-80°)	1494.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	223.9	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5
2.5°	2459.7	2447.9	2442.0	2442.0	2418.3	2403.5	2400.5	2379.8	2362.1	2344.3	2329.5
5°	2601.8	2592.9	2575.2	2560.4	2527.8	2486.4	2480.5	2436.1	2391.7	2350.2	2314.7
7.5°	2732.1	2714.3	2693.6	2664.0	2610.7	2554.5	2545.6	2483.4	2421.3	2359.1	2311.7
10°	2841.6	2823.8	2794.2	2752.8	2684.7	2616.6	2607.7	2542.6	2477.5	2403.5	2335.4
12.5°	2945.2	2930.4	2886.0	2829.7	2749.8	2687.7	2678.8	2622.5	2554.5	2471.6	2382.8
15°	3034.0	3019.2	2971.8	2906.7	2814.9	2767.6	2755.7	2702.5	2634.4	2545.6	2453.8
17.5°	3078.4	3078.4	3028.1	2957.0	2871.2	2835.7	2826.8	2761.7	2699.5	2613.7	2521.9
20°	3093.2	3099.1	3063.6	2977.7	2903.7	2888.9	2880.1	2826.8	2755.7	2672.9	2587.0
22.5°	3102.1	3113.9	3084.3	2986.6	2924.5	2915.6	2909.7	2874.1	2817.9	2738.0	2652.1
25°	3131.7	3131.7	3110.9	3001.4	2951.1	2948.1	2948.1	2927.4	2888.9	2820.9	2735.0
27.5°	3176.1	3173.1	3146.5	3034.0	3010.3	3019.2	3016.2	3013.3	2986.6	2918.5	2826.8
30°	3250.1	3250.1	3220.5	3099.1	3084.3	3122.8	3125.7	3131.7	3090.2	2983.7	2909.7
32.5°	3362.5	3350.7	3321.1	3164.2	3140.5	3176.1	3182.0	3179.0	3143.5	3042.9	3007.3
35°	3708.9	3682.2	3575.7	3309.3	3190.9	3211.6	3214.5	3229.3	3235.3	3155.3	3137.6
37.5°	4315.7	4280.1	4117.3	3652.6	3350.7	3300.4	3297.4	3335.9	3368.5	3297.4	3297.4
40°	4975.7	4946.1	4851.4	4244.6	3646.7	3480.9	3469.1	3504.6	3546.1	3495.7	3510.5
42.5°	5544.1	5567.7	5576.6	4872.1	4090.7	3818.4	3785.8	3735.5	3800.6	3756.2	3815.4
45°	5970.3	5958.5	6121.3	5514.5	4664.9	4241.7	4197.3	4061.1	4144.0	4141.0	4271.3
47.5°	6423.2	6402.5	6470.5	6118.3	5319.1	4759.7	4691.6	4490.3	4614.6	4700.5	4916.5
50°	6852.4	6858.3	6882.0	6594.9	6029.5	5390.1	5304.3	5034.9	5212.5	5393.1	5698.0
52.5°	7411.8	7370.4	7340.8	7151.3	6825.7	6047.3	5991.0	5683.2	5931.8	6144.9	6550.5
55°	7900.2	7873.6	7855.8	7846.9	7491.7	6772.5	6713.3	6393.6	6751.7	6902.7	7500.6
57.5°	8421.2	8406.4	8501.1	8652.0	8510.0	7509.5	7447.3	7139.5	7539.1	7645.6	8530.7
60°	8803.0	8811.9	9072.4	9457.2	9359.5	8308.7	8234.7	7962.4	8305.7	8400.4	9560.8
62.5°	8806.0	8894.8	9498.6	10188.3	10300.8	9229.2	9143.4	8847.4	9093.1	9093.1	10484.3
65°	7965.3	8066.0	9421.6	10368.8	11253.9	10324.4	10241.6	9776.8	9868.6	9744.3	11351.6
67.5°	7127.6	7246.0	8521.8	10383.6	11922.8	11496.6	11398.9	10706.3	10549.4	10235.6	11958.3
70°	6571.2	6654.1	7719.6	10191.2	12325.4	12722.0	12648.0	11588.3	11085.2	10647.1	11831.1
72.5°	5532.2	5502.6	6520.9	9276.6	12550.3	14113.2	14051.1	12547.4	11549.9	10451.7	10090.6
75°	3211.6	3247.1	4046.3	6796.1	11313.1	14838.4	14832.5	13367.3	11345.6	9232.2	6953.0
77.5°	926.5	953.1	1329.0	2986.6	7154.3	12656.9	13062.4	12224.7	9590.4	6580.1	3605.3
80°	405.5	426.2	577.2	994.6	3081.3	8267.2	8622.4	8267.2	5783.8	3019.2	1414.9
82.5°	239.8	254.6	375.9	615.7	1477.0	3933.8	4413.3	3853.9	2495.3	1281.7	586.1
85°	136.2	142.1	216.1	390.7	929.4	1376.4	1545.1	1447.4	1216.6	728.2	307.8
87.5°	62.2	65.1	106.6	183.5	521.0	464.7	482.5	639.4	704.5	444.0	153.9
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°	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5	2326.5
2.5°	2323.6	2314.7	2296.9	2291.0	2282.1	2285.1	2288.1	2288.1	2291.0	2282.1	2282.1
5°	2299.9	2285.1	2267.4	2267.4	2267.4	2291.0	2311.7	2323.6	2329.5	2329.5	2323.6
7.5°	2291.0	2273.3	2252.6	2258.5	2264.4	2294.0	2332.5	2370.9	2382.8	2382.8	2376.9
10°	2308.8	2291.0	2276.2	2285.1	2299.9	2323.6	2353.2	2388.7	2418.3	2421.3	2418.3
12.5°	2350.2	2329.5	2314.7	2332.5	2350.2	2365.0	2379.8	2394.6	2433.1	2439.0	2439.0
15°	2418.3	2397.6	2379.8	2394.6	2400.5	2400.5	2400.5	2400.5	2439.0	2444.9	2444.9
17.5°	2486.4	2468.6	2450.9	2453.8	2436.1	2412.4	2403.5	2400.5	2421.3	2439.0	2442.0
20°	2551.5	2536.7	2518.9	2489.3	2444.9	2400.5	2385.7	2385.7	2397.6	2424.2	2424.2
22.5°	2622.5	2604.8	2575.2	2507.1	2433.1	2370.9	2356.1	2365.0	2379.8	2415.3	2412.4
25°	2702.5	2678.8	2628.5	2501.2	2394.6	2320.6	2323.6	2350.2	2376.9	2415.3	2415.3
27.5°	2791.3	2758.7	2658.1	2453.8	2308.8	2237.8	2264.4	2326.5	2365.0	2406.5	2412.4
30°	2888.9	2859.3	2681.7	2370.9	2169.7	2104.6	2169.7	2270.3	2329.5	2368.0	2376.9
32.5°	3007.3	2983.7	2702.5	2264.4	1989.1	1932.9	2027.6	2151.9	2246.6	2291.0	2299.9
35°	3155.3	3131.7	2729.1	2143.0	1820.4	1761.2	1847.0	1974.3	2098.6	2154.9	2172.6
37.5°	3347.7	3312.2	2752.8	2012.8	1678.3	1610.2	1651.7	1767.1	1879.6	1956.6	1977.3
40°	3593.4	3537.2	2773.5	1864.8	1554.0	1477.0	1491.8	1548.1	1613.2	1681.3	1707.9
42.5°	3939.7	3827.3	2776.5	1707.9	1426.7	1355.7	1349.8	1367.5	1367.5	1367.5	1376.4
45°	4422.2	4209.1	2782.4	1559.9	1296.5	1222.5	1204.7	1198.8	1154.4	1068.6	1062.6
47.5°	5032.0	4709.3	2809.0	1435.6	1160.3	1095.2	1071.5	1047.8	965.0	876.2	858.4
50°	5813.4	5289.5	2862.3	1317.2	1044.9	1000.5	970.9	914.6	822.9	754.8	737.0
52.5°	6713.3	5979.2	2912.6	1192.9	959.0	929.4	893.9	825.8	728.2	686.7	680.8
55°	7746.3	6748.8	3013.3	1083.4	885.0	864.3	831.8	766.6	692.6	663.0	660.1
57.5°	8803.0	7610.1	3155.3	985.7	814.0	802.2	802.2	745.9	698.6	686.7	686.7
60°	9821.2	8350.1	3045.8	893.9	748.9	754.8	811.0	796.2	760.7	775.5	784.4
62.5°	10611.6	8785.2	2471.6	819.9	701.5	754.8	899.8	899.8	858.4	852.5	852.5
65°	10949.0	8779.3	1737.5	763.7	683.8	828.8	1003.4	956.1	846.6	805.1	796.2
67.5°	10863.2	8394.5	1198.8	725.2	677.8	905.8	1050.8	917.6	793.3	757.8	731.1
70°	10108.4	7580.5	923.5	689.7	669.0	873.2	1036.0	873.2	751.8	719.3	695.6
72.5°	8154.8	6079.8	766.6	654.2	633.4	808.1	985.7	831.8	719.3	683.8	660.1
75°	5200.7	3824.3	648.2	606.8	565.4	725.2	917.6	790.3	683.8	636.4	618.6
77.5°	2501.2	1648.7	565.4	550.6	509.1	671.9	849.5	737.0	636.4	597.9	586.1
80°	1012.3	754.8	491.4	494.3	467.7	639.4	802.2	686.7	589.0	547.6	526.9
82.5°	526.9	438.1	414.4	426.2	426.2	609.8	766.6	645.3	547.6	529.8	461.8
85°	284.2	272.3	319.7	343.4	370.0	550.6	713.4	600.9	500.2	429.2	414.4
87.5°	139.1	177.6	180.6	207.2	257.5	441.0	600.9	503.2	417.4	346.3	340.4
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)