

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: P381249

Luminaire Tested: **PRV-XL-PA3B-730-U-T3-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381249  
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-PA3B-730-U-T3-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 980mA 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: 20524 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

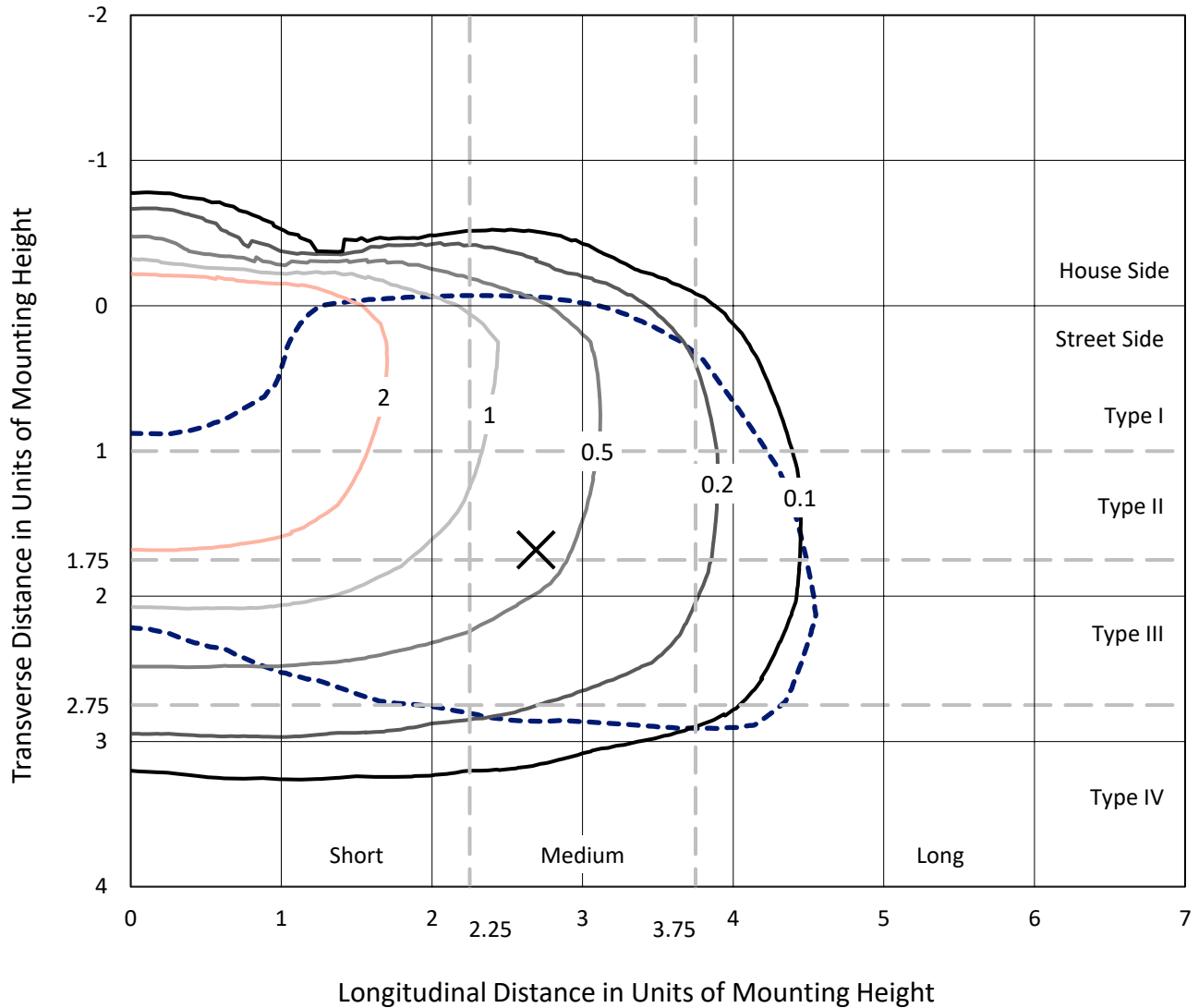
Input Watts (W): 234  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



REPORT NUMBER: P381249  
 CATALOG NUMBER: PRV-XL-PA3B-730-U-T3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

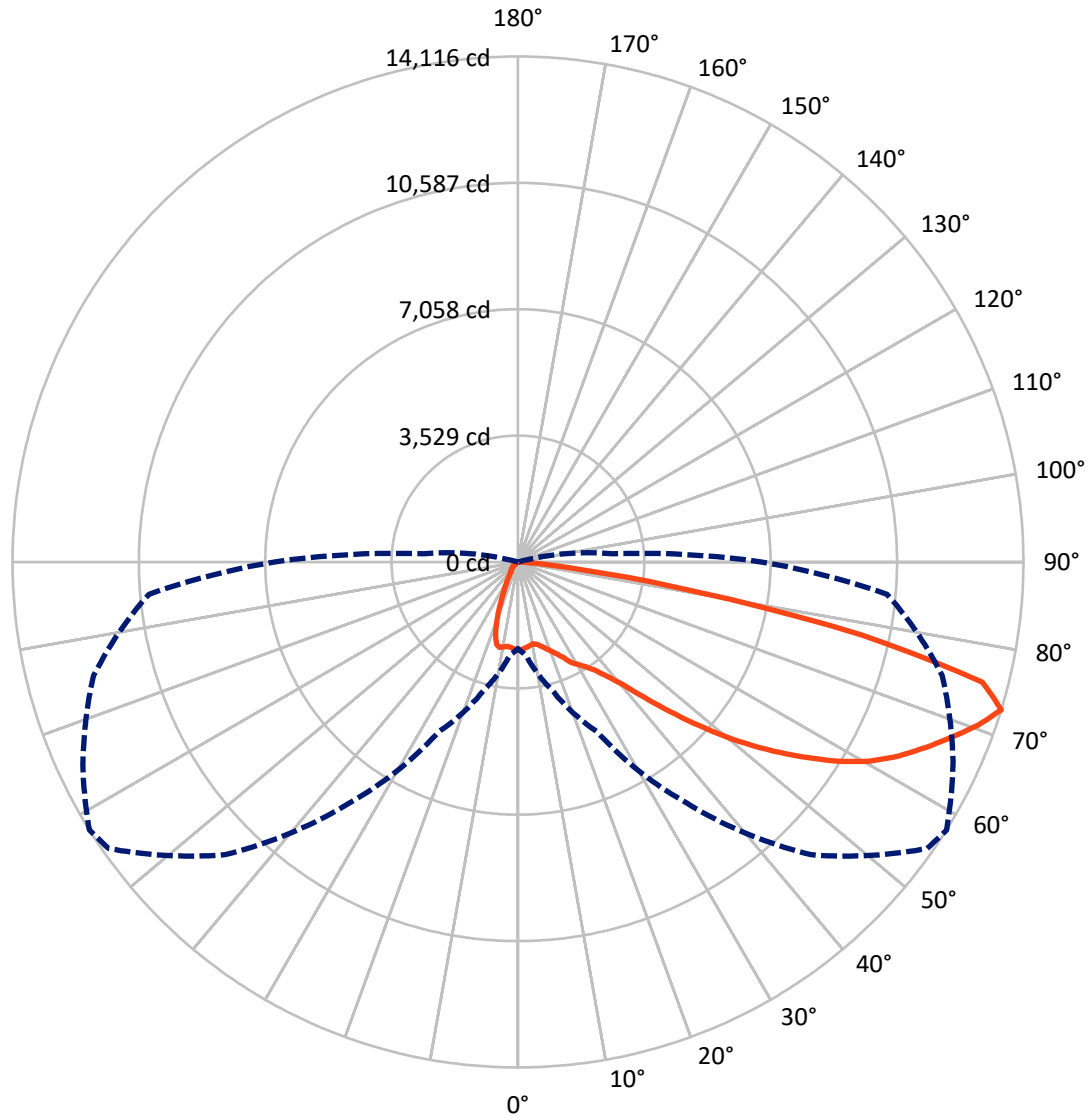
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P381249  
CATALOG NUMBER: PRV-XL-PA3B-730-U-T3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P381249  
 CATALOG NUMBER: PRV-XL-PA3B-730-U-T3-HSS

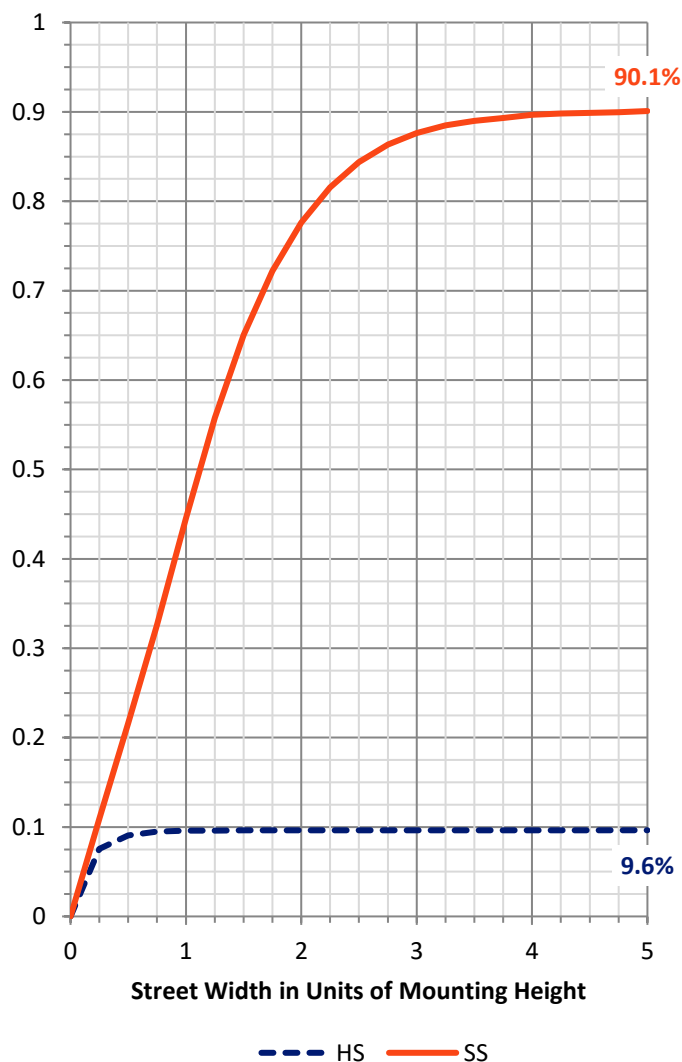
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1995.8	0.0	1995.8
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	18528.2	0.0	18528.2
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	20524.0	0.0	20524.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.0	1.1
10°-20°	588.7	2.9
20°-30°	924.8	4.5
30°-40°	1594.9	7.8
40°-50°	3034.3	14.8
50°-60°	4805.4	23.4
60°-70°	5607.4	27.3
70°-80°	3511.9	17.1
80°-90°	230.5	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°	20524.0	100.0
0°-180°	20524.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P381249

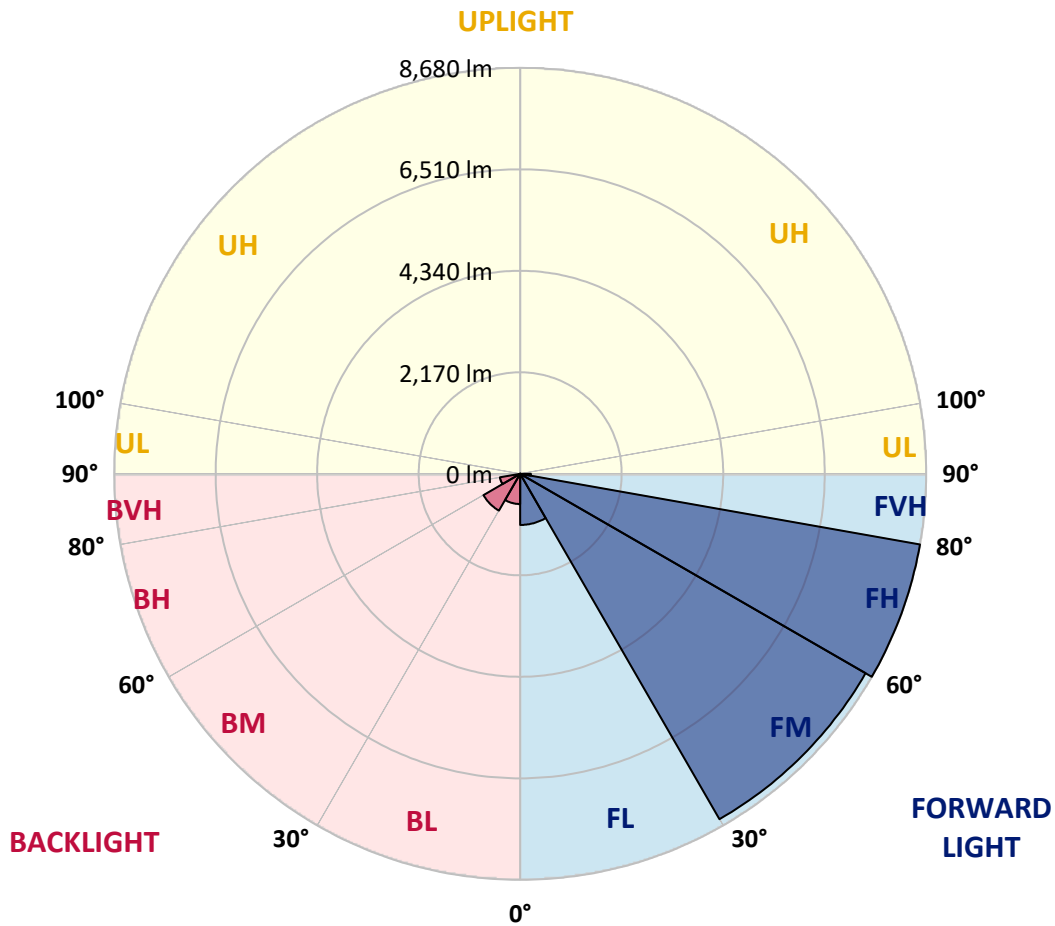
CATALOG NUMBER: PRV-XL-PA3B-730-U-T3-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1093.2	5.3			
FM (30°-60°)	8526.5	41.5			
FH (60°-80°)	8680.2	42.3			G4/12000
FVH (80°-90°)	228.3	1.1			G3/500
BL (0°-30°)	646.3	3.1	B2/1000		
BM (30°-60°)	908.1	4.4	B1/1000		
BH (60°-80°)	439.2	2.1	B1/500		G1/500
BVH (80°-90°)	2.2	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





REPORT NUMBER: P381249

CATALOG NUMBER: PRV-XL-PA3B-730-U-T3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8
2.5°	2451.7	2440.7	2437.1	2433.4	2437.1	2440.7	2429.7	2440.7	2433.4	2437.1	2444.4
5°	2363.7	2352.6	2349.0	2352.6	2363.7	2382.0	2389.3	2400.4	2400.4	2411.4	2415.0
7.5°	2264.6	2257.2	2253.5	2260.9	2282.9	2323.3	2345.3	2360.0	2374.7	2396.7	2418.7
10°	2209.5	2205.8	2202.2	2213.2	2235.2	2271.9	2301.3	2323.3	2378.3	2440.7	2481.1
12.5°	2172.8	2172.8	2180.1	2202.2	2231.5	2260.9	2330.6	2360.0	2444.4	2539.8	2594.9
15°	2143.4	2143.4	2154.5	2194.8	2235.2	2304.9	2407.7	2440.7	2539.8	2657.3	2730.7
17.5°	2121.4	2128.8	2136.1	2176.5	2253.5	2371.0	2492.1	2539.8	2660.9	2789.4	2870.2
20°	2125.1	2132.4	2136.1	2176.5	2286.6	2448.1	2602.2	2657.3	2796.7	2932.6	3013.3
22.5°	2147.1	2158.1	2161.8	2216.8	2345.3	2528.8	2727.0	2789.4	2939.9	3083.0	3145.4
25°	2238.9	2246.2	2224.2	2271.9	2429.7	2653.6	2888.5	2954.6	3105.1	3237.2	3288.6
27.5°	2550.8	2558.2	2437.1	2382.0	2495.8	2756.4	3086.7	3178.5	3365.6	3453.7	3461.1
30°	3226.2	3233.5	2994.9	2734.4	2653.6	2844.5	3196.8	3325.3	3567.5	3666.6	3622.6
32.5°	4096.0	4088.7	3762.0	3376.7	3028.0	2998.6	3354.6	3490.4	3754.7	3850.1	3817.1
35°	4969.6	4980.6	4701.6	4121.7	3622.6	3288.6	3556.5	3714.3	4033.6	4169.4	4110.7
37.5°	5567.8	5641.2	5520.1	4892.5	4352.9	3824.4	3883.2	4052.0	4452.0	4635.6	4510.8
40°	6412.0	6393.6	6100.0	5637.5	5160.4	4617.2	4411.7	4492.4	4951.2	5197.1	5002.6
42.5°	7546.1	7509.4	7010.2	6558.8	6026.6	5582.5	5164.1	5149.4	5523.8	5810.0	5527.4
45°	8573.8	8518.7	8177.4	7740.6	7157.0	6646.9	6081.6	5953.2	6213.8	6456.0	6125.7
47.5°	9392.2	9300.5	9058.2	8827.0	8683.9	7891.1	7043.3	6848.7	6980.9	7160.7	6694.6
50°	10361.2	10107.9	9755.6	9616.1	9913.4	9300.5	7968.2	7781.0	7773.6	7876.4	7281.8
52.5°	10801.6	10342.8	10144.6	10262.1	10786.9	10610.8	8966.5	8698.6	8592.1	8603.1	7828.7
55°	10269.4	10218.0	10324.5	10691.5	11377.9	11275.1	9924.4	9594.1	9436.3	9238.1	8353.5
57.5°	9663.8	9821.7	10243.7	10944.8	12126.6	11968.8	10867.7	10493.3	10203.4	9748.3	8937.1
60°	9106.0	9267.4	9964.8	11003.5	12537.7	12636.8	11653.1	11297.1	10867.7	10269.4	9579.4
62.5°	8258.1	8382.9	9362.9	10919.1	12357.8	13025.8	12200.0	11932.1	11532.0	10764.9	10317.1
65°	7303.8	7384.6	8353.5	10243.7	12005.5	12981.8	12651.4	12501.0	12111.9	11282.4	11047.5
67.5°	6257.8	6353.2	7160.7	9028.9	11315.5	12776.2	13077.2	13062.5	12618.4	11855.0	11576.0
70°	5054.0	5061.3	5729.3	7487.4	10111.6	12365.2	13605.7	13638.7	13102.9	12284.4	11598.1
72.5°	2418.7	2616.9	3714.3	5226.5	8217.7	11557.7	13950.7	14115.9	13407.5	12269.7	10346.5
75°	554.2	572.6	1082.7	2484.8	4819.1	8871.1	13088.2	13396.5	12666.1	10610.8	7289.2
77.5°	201.9	212.9	304.6	726.7	1853.5	4584.2	9366.5	9818.0	9362.9	6859.7	3446.4
80°	135.8	132.1	157.8	323.0	851.5	1299.3	4789.7	5057.6	4617.2	2341.6	825.8
82.5°	69.7	73.4	110.1	179.8	572.6	451.4	1600.2	1739.7	1431.4	469.8	154.2
85°	33.0	33.0	62.4	113.8	242.2	157.8	356.0	429.4	385.4	205.5	51.4
87.5°	33.0	33.0	58.7	73.4	124.8	66.1	88.1	110.1	102.8	110.1	18.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P381249  
 CATALOG NUMBER: PRV-XL-PA3B-730-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8	2462.8
2.5°	2444.4	2440.7	2437.1	2444.4	2440.7	2448.1	2448.1	2455.4	2455.4	2448.1	2444.4
5°	2411.4	2404.0	2396.7	2396.7	2393.0	2400.4	2422.4	2440.7	2444.4	2433.4	2429.7
7.5°	2415.0	2415.0	2407.7	2393.0	2367.3	2367.3	2367.3	2389.3	2400.4	2393.0	2389.3
10°	2481.1	2484.8	2466.4	2433.4	2389.3	2349.0	2271.9	2158.1	2051.7	2022.3	2011.3
12.5°	2594.9	2598.6	2561.9	2503.1	2411.4	2172.8	1879.2	1607.6	1398.4	1339.7	1328.6
15°	2730.7	2734.4	2668.3	2572.9	2293.9	1739.7	1302.9	994.6	811.1	767.1	763.4
17.5°	2870.2	2862.8	2763.7	2580.2	1945.2	1233.2	792.8	635.0	587.2	576.2	579.9
20°	3006.0	2983.9	2848.1	2444.4	1497.5	807.5	579.9	543.2	532.2	524.8	524.8
22.5°	3130.7	3086.7	2917.9	2176.5	1049.7	579.9	517.5	510.2	495.5	484.5	480.8
25°	3255.5	3193.1	2961.9	1827.8	704.7	506.5	488.1	473.5	455.1	440.4	436.8
27.5°	3406.0	3317.9	2939.9	1387.4	528.5	469.8	455.1	433.1	407.4	385.4	378.0
30°	3549.2	3450.1	2815.1	957.9	451.4	433.1	411.1	378.0	345.0	319.3	312.0
32.5°	3729.0	3615.2	2591.2	627.6	392.7	378.0	356.0	315.6	271.6	242.2	234.9
35°	3985.9	3857.5	2304.9	440.4	345.0	319.3	290.0	245.9	198.2	176.2	172.5
37.5°	4345.6	4173.1	1945.2	356.0	304.6	267.9	223.9	179.8	146.8	128.5	124.8
40°	4786.0	4521.8	1545.2	315.6	271.6	223.9	168.8	128.5	106.4	91.8	91.8
42.5°	5263.2	4848.4	1137.8	290.0	238.6	183.5	124.8	91.8	77.1	69.7	66.1
45°	5755.0	5138.4	767.1	267.9	209.2	139.5	88.1	62.4	51.4	51.4	47.7
47.5°	6265.2	5332.9	495.5	242.2	176.2	102.8	58.7	44.0	36.7	36.7	36.7
50°	6771.7	5435.7	352.3	220.2	143.1	69.7	44.0	33.0	29.4	29.4	29.4
52.5°	7138.7	5369.6	282.6	190.9	110.1	51.4	33.0	25.7	22.0	22.0	22.0
55°	7458.0	5255.8	245.9	165.2	80.7	36.7	25.7	22.0	18.4	18.4	18.4
57.5°	7784.7	5109.0	220.2	139.5	58.7	25.7	18.4	14.7	14.7	14.7	14.7
60°	8081.9	4859.4	190.9	110.1	40.4	18.4	14.7	11.0	11.0	11.0	11.0
62.5°	8371.9	4646.6	165.2	84.4	29.4	14.7	7.3	7.3	3.7	3.7	3.7
65°	8537.1	4360.3	132.1	55.1	18.4	11.0	3.7	3.7	0.0	0.0	0.0
67.5°	8485.7	4019.0	91.8	33.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0
70°	8129.7	3560.2	55.1	18.4	11.0	7.3	3.7	0.0	0.0	0.0	0.0
72.5°	6808.4	2635.3	33.0	14.7	7.3	3.7	0.0	0.0	0.0	0.0	0.0
75°	4547.5	1211.2	18.4	11.0	3.7	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	2081.0	363.4	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	418.4	95.4	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	88.1	18.4	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.4	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	3.7	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)