

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: P381313

Luminaire Tested: **PRV-XL-PA3B-730-U-T4W-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
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-T4W-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

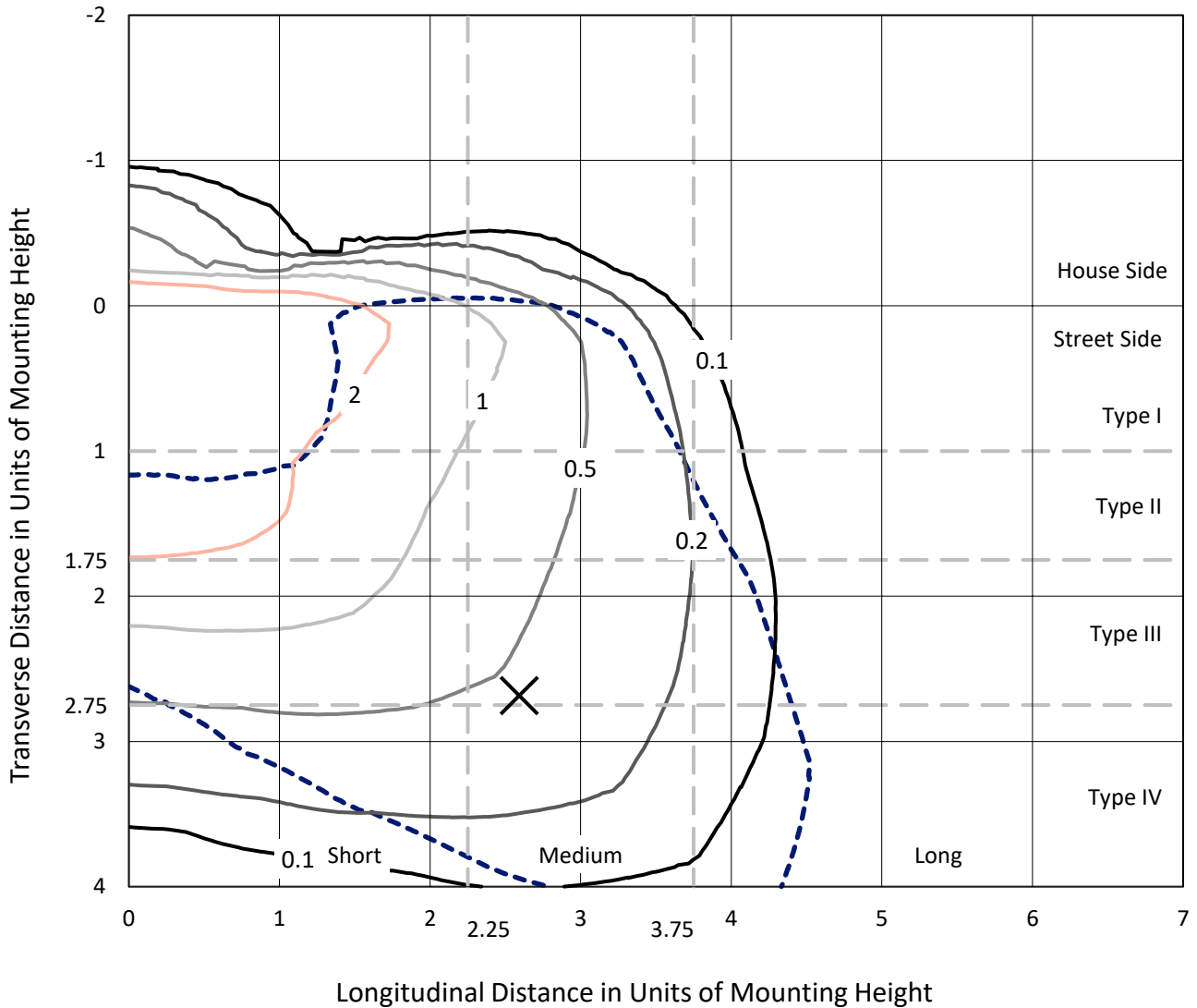
Lumens per Lamp: N/A  
Luminaire Lumens: 19892 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 234  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

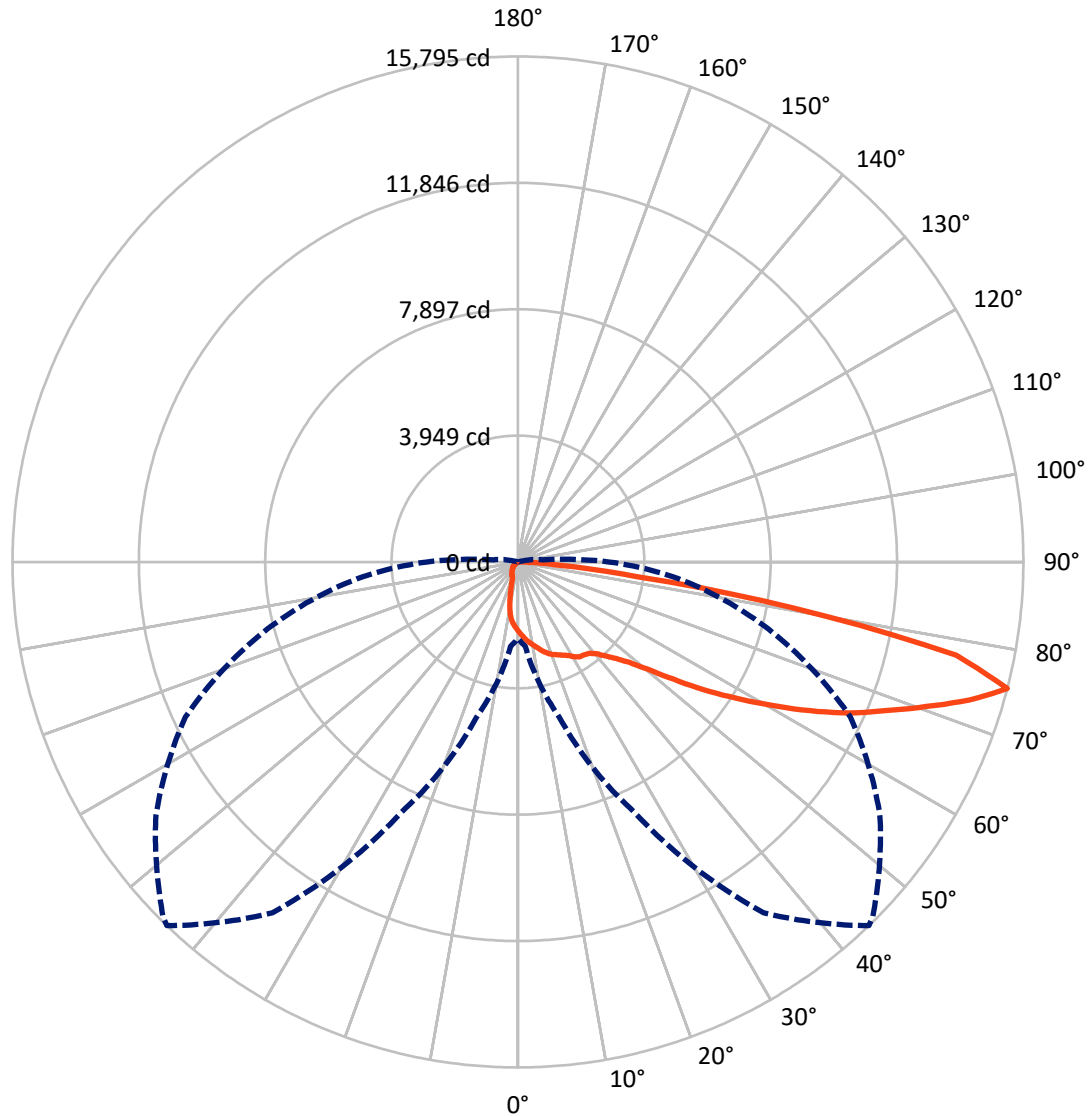
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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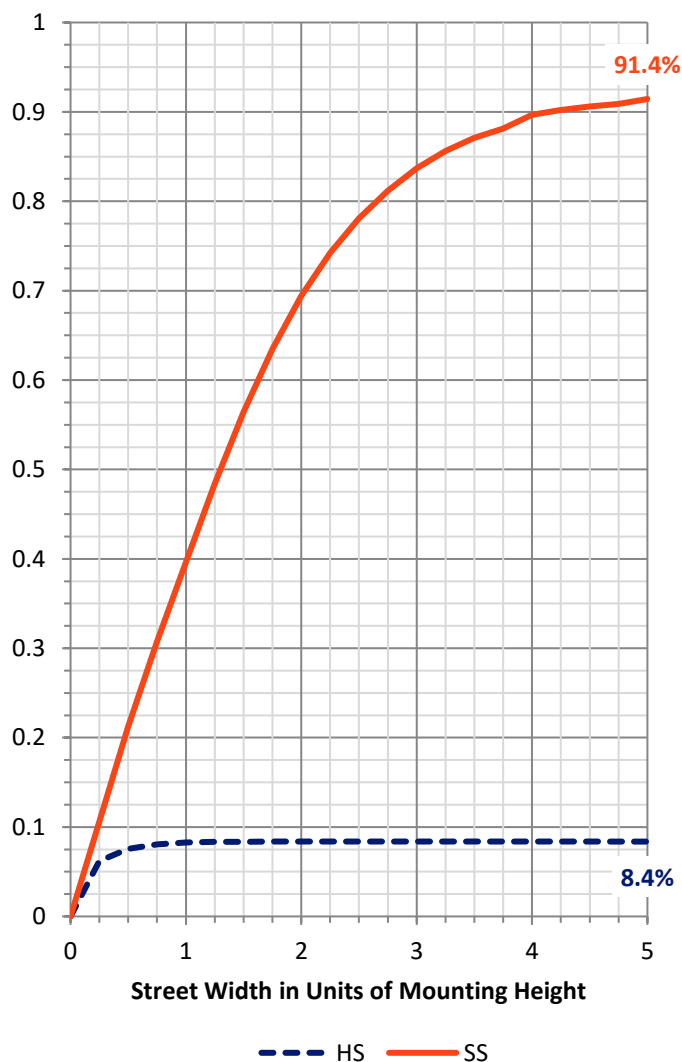
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1677.5	0.0	1677.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	18214.5	0.0	18214.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	19892.0	0.0	19892.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.2	1.0
10°-20°	572.2	2.9
20°-30°	944.2	4.7
30°-40°	1370.5	6.9
40°-50°	2227.8	11.2
50°-60°	3927.3	19.7
60°-70°	5644.4	28.4
70°-80°	4519.9	22.7
80°-90°	481.6	2.4
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°	19892.0	100.0
0°-180°	19892.0	100.0

**Coefficient of Utilization**



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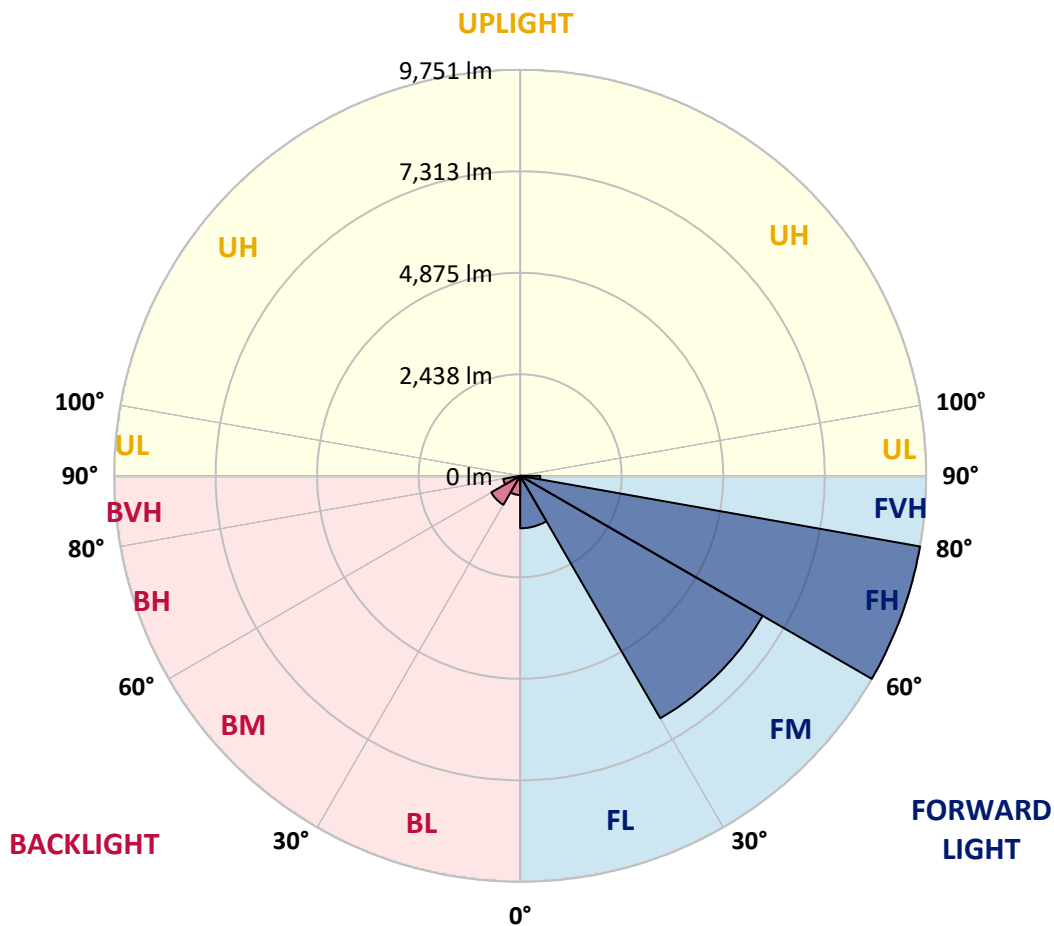
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1259.7	6.3			
FM (30°-60°)	6723.7	33.8			
FH (60°-80°)	9750.7	49.0			G4/12000
FVH (80°-90°)	480.3	2.4			G3/500
BL (0°-30°)	460.9	2.3	B1/500		
BM (30°-60°)	801.9	4.0	B1/1000		
BH (60°-80°)	413.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2
2.5°	2359.7	2356.0	2345.0	2326.6	2308.3	2289.9	2286.3	2256.9	2223.9	2198.2	2176.2
5°	2568.8	2565.2	2546.8	2506.5	2466.1	2418.4	2414.7	2345.0	2282.6	2212.9	2154.2
7.5°	2785.4	2778.0	2745.0	2682.6	2612.9	2539.5	2532.1	2429.4	2337.6	2245.9	2161.5
10°	2954.2	2946.8	2899.1	2825.7	2730.3	2638.6	2627.6	2521.1	2429.4	2312.0	2198.2
12.5°	3119.3	3104.6	3042.2	2961.5	2844.1	2756.0	2745.0	2634.9	2524.8	2403.7	2264.3
15°	3273.4	3255.1	3196.4	3093.6	2968.9	2884.4	2877.1	2759.7	2645.9	2506.5	2352.3
17.5°	3379.9	3372.5	3302.8	3189.0	3067.9	2998.2	2990.9	2869.8	2756.0	2609.2	2444.1
20°	3434.9	3434.9	3368.9	3244.1	3134.0	3086.3	3075.3	2961.5	2851.4	2712.0	2539.5
22.5°	3445.9	3456.9	3405.6	3269.8	3189.0	3148.7	3141.3	3042.2	2935.8	2807.4	2645.9
25°	3467.9	3467.9	3442.3	3295.5	3236.7	3225.7	3222.1	3134.0	3038.6	2910.1	2752.3
27.5°	3493.6	3493.6	3475.3	3332.2	3310.1	3306.5	3302.8	3262.4	3185.4	3034.9	2877.1
30°	3559.7	3563.4	3548.7	3405.6	3390.9	3431.2	3438.6	3416.6	3321.1	3134.0	3005.5
32.5°	3724.8	3691.8	3651.4	3456.9	3482.6	3534.0	3537.7	3493.6	3390.9	3240.4	3159.7
35°	4139.5	3945.0	3761.5	3501.0	3512.0	3563.4	3570.7	3567.0	3504.6	3376.2	3335.8
37.5°	4524.8	4249.6	3989.0	3603.7	3567.0	3622.1	3636.7	3699.1	3651.4	3563.4	3574.4
40°	4748.7	4642.3	4458.8	3886.3	3677.1	3761.5	3776.2	3871.6	3853.3	3816.6	3886.3
42.5°	5438.6	5445.9	5247.8	4308.3	3879.0	4014.7	4033.1	4110.2	4135.8	4154.2	4323.0
45°	6238.6	6264.3	6216.6	5068.0	4260.6	4304.6	4330.3	4433.1	4528.5	4645.9	4954.2
47.5°	7200.1	7178.1	7001.9	5996.4	4924.8	4679.0	4697.3	4895.5	5060.6	5317.5	5757.9
50°	8051.5	8106.5	7772.6	6862.5	5860.6	5269.8	5251.5	5445.9	5743.2	6102.8	6657.0
52.5°	8910.2	8829.5	8378.1	7721.2	6968.9	6073.5	6018.4	6124.9	6543.2	6968.9	7537.7
55°	9137.7	9145.1	8991.0	8660.7	7893.7	7049.6	6957.9	6950.6	7471.7	7761.6	8462.5
57.5°	9585.5	9603.8	9640.5	9706.6	9343.3	8025.8	7930.4	7827.6	8334.1	8502.9	9391.0
60°	10040.5	10062.5	10286.4	10642.4	10400.1	9079.0	8976.3	8734.1	9016.6	9244.2	10367.1
62.5°	9981.8	10135.9	10785.5	11493.7	11464.4	10235.0	10106.6	9523.1	9702.9	9901.1	11262.5
65°	9013.0	9178.1	10638.7	11728.6	12532.3	11376.3	11167.1	10337.8	10348.8	10587.3	12124.9
67.5°	8146.9	8326.7	9721.2	11629.5	13236.9	12400.2	12183.7	11156.1	10983.6	11380.0	12587.3
70°	7647.8	7827.6	8991.0	11321.3	13435.1	13534.1	13347.0	12091.9	11739.6	12102.9	12069.9
72.5°	5985.4	6268.0	8058.8	10734.1	13647.9	14748.8	14602.0	13277.3	12381.8	11347.0	9189.1
75°	2385.4	2645.9	5031.3	8638.7	13380.0	15794.7	15681.0	13809.4	11460.7	8102.9	4704.7
77.5°	719.3	770.7	1398.2	4271.6	9809.3	14003.9	13967.2	11611.2	8110.2	3761.5	1284.4
80°	238.5	264.2	429.4	1178.0	4477.1	8748.7	8913.9	7398.3	3684.5	862.4	260.6
82.5°	99.1	110.1	216.5	473.4	1585.3	3768.9	3713.8	3313.8	1284.4	535.8	95.4
85°	25.7	33.0	99.1	271.6	579.8	1299.1	1365.2	1111.9	726.6	444.0	29.4
87.5°	0.0	0.0	47.7	110.1	260.6	392.7	411.0	337.6	411.0	333.9	14.7
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°	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2	2165.2
2.5°	2157.8	2139.5	2106.5	2084.4	2055.1	2047.7	2033.1	2014.7	2011.0	1992.7	1996.4
5°	2121.1	2091.8	2033.1	1992.7	1945.0	1930.3	1904.6	1886.3	1871.6	1845.9	1849.6
7.5°	2113.8	2069.8	1989.0	1912.0	1834.9	1779.8	1702.8	1640.4	1589.0	1534.0	1545.0
10°	2139.5	2084.4	1970.7	1864.2	1724.8	1548.6	1346.8	1214.7	1148.6	1082.6	1089.9
12.5°	2190.9	2124.8	1978.0	1816.5	1534.0	1233.0	954.1	774.3	726.6	697.3	700.9
15°	2267.9	2187.2	2000.0	1724.8	1277.1	891.8	634.9	557.8	576.2	587.2	587.2
17.5°	2348.7	2256.9	2018.4	1559.7	987.2	623.9	517.4	510.1	535.8	561.5	561.5
20°	2447.7	2330.3	2022.0	1350.5	711.9	506.4	488.1	488.1	506.4	535.8	535.8
22.5°	2543.2	2411.0	1989.0	1111.9	543.1	469.7	469.7	469.7	480.7	510.1	513.8
25°	2656.9	2510.1	1919.3	858.7	466.1	447.7	447.7	451.4	458.7	484.4	488.1
27.5°	2778.0	2612.9	1801.9	627.5	425.7	422.0	425.7	429.4	433.0	458.7	466.1
30°	2917.5	2726.6	1651.4	469.7	389.0	389.0	400.0	407.3	407.3	429.4	436.7
32.5°	3078.9	2877.1	1471.6	389.0	352.3	348.6	367.0	378.0	378.0	396.3	403.7
35°	3280.8	3031.2	1255.1	345.0	322.9	315.6	322.9	341.3	348.6	363.3	367.0
37.5°	3548.7	3214.7	1023.9	319.3	300.9	286.2	286.2	289.9	304.6	319.3	322.9
40°	3890.0	3416.6	796.3	300.9	278.9	264.2	253.2	249.5	245.9	256.9	264.2
42.5°	4319.3	3644.1	594.5	282.6	260.6	238.5	223.9	209.2	190.8	187.2	190.8
45°	4869.8	3923.0	440.4	267.9	249.5	216.5	190.8	165.1	132.1	121.1	124.8
47.5°	5519.3	4212.9	345.0	253.2	242.2	190.8	157.8	113.8	80.7	73.4	77.1
50°	6209.3	4491.8	293.6	234.9	227.5	165.1	113.8	69.7	47.7	47.7	51.4
52.5°	6796.4	4649.6	267.9	220.2	205.5	135.8	73.4	40.4	29.4	29.4	33.0
55°	7365.2	4734.0	249.5	205.5	176.1	95.4	40.4	25.7	18.3	18.3	18.3
57.5°	7952.4	4770.7	227.5	187.2	139.5	58.7	22.0	14.7	11.0	11.0	11.0
60°	8473.5	4701.0	194.5	154.1	91.7	29.4	11.0	11.0	7.3	3.7	3.7
62.5°	8910.2	4568.9	135.8	110.1	55.0	14.7	7.3	3.7	0.0	0.0	0.0
65°	9178.1	4356.0	88.1	73.4	33.0	11.0	3.7	0.0	0.0	0.0	0.0
67.5°	9101.0	3956.0	55.0	47.7	14.7	7.3	3.7	0.0	0.0	0.0	0.0
70°	8213.0	3244.1	40.4	29.4	11.0	3.7	0.0	0.0	0.0	0.0	0.0
72.5°	5919.4	2194.5	29.4	18.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0
75°	2847.7	781.7	18.3	14.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	697.3	172.5	11.0	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	154.1	33.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.4	14.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.0	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)