

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: P381256

Luminaire Tested: **PRV-XL-PA3A-740-U-T3-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381256  
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-PA3A-740-U-T3-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 750mA 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: 18176 lumens  
Efficiency: N/A  
Efficacy: 105.7 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

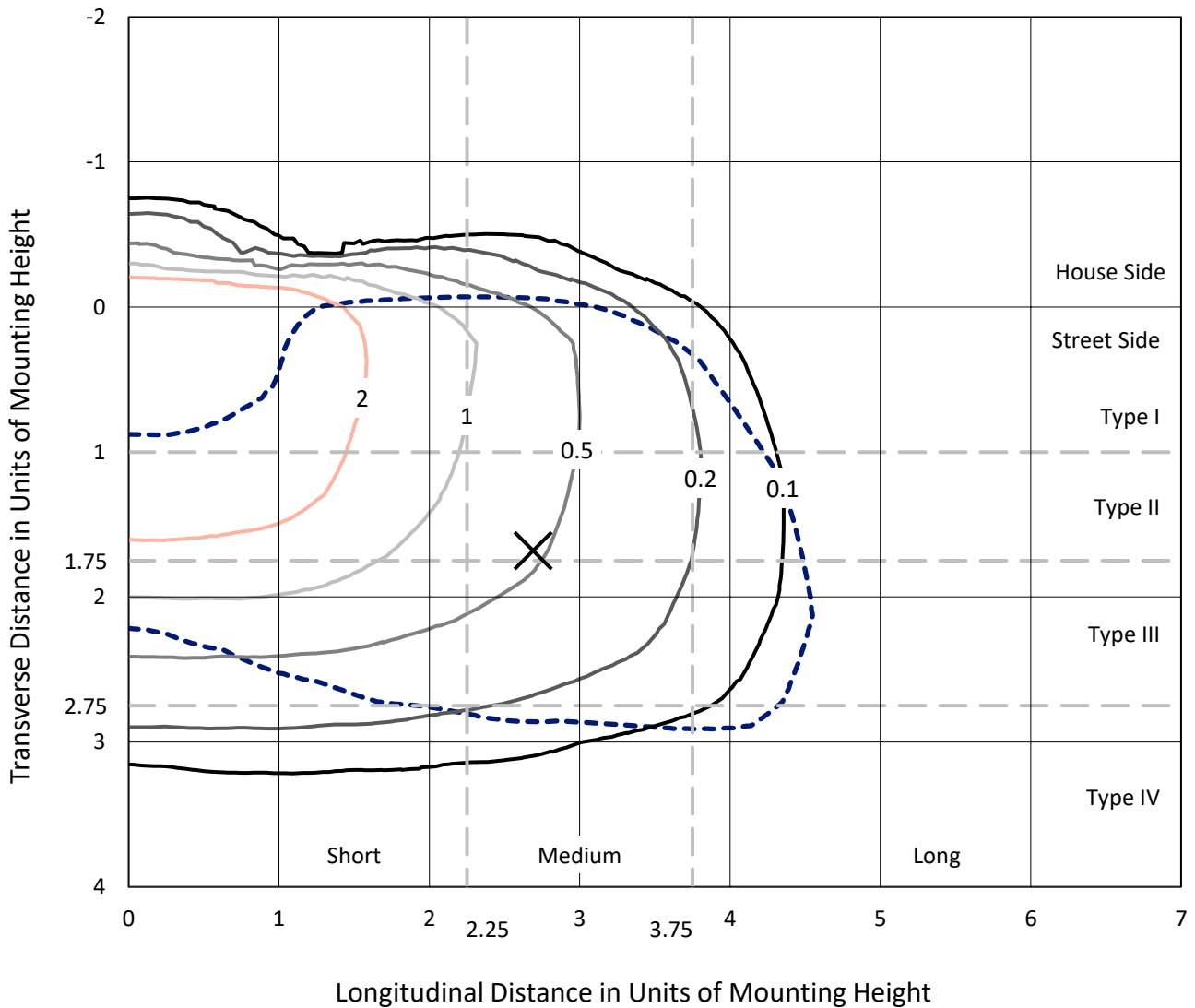
Input Watts (W): 172  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

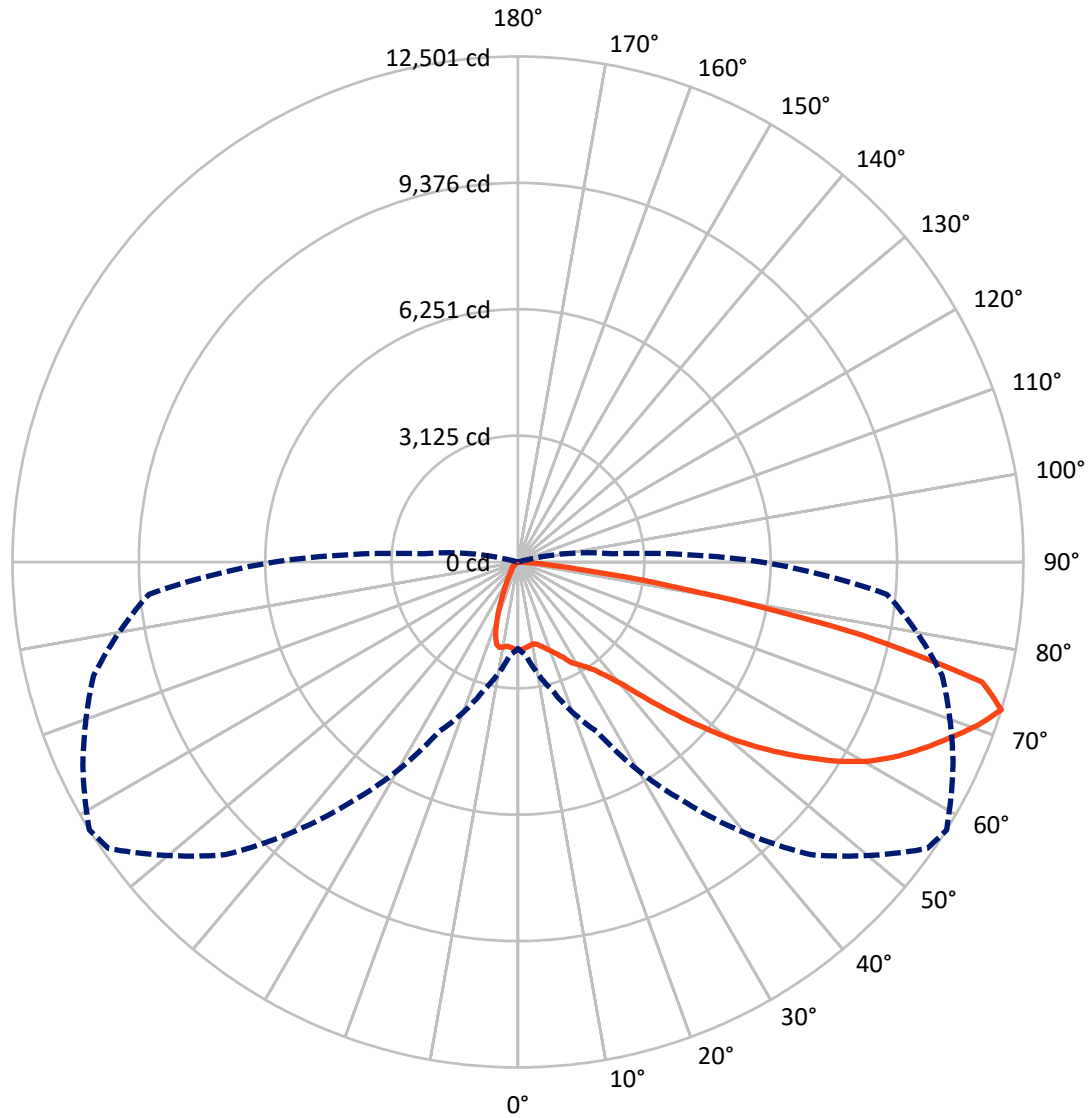
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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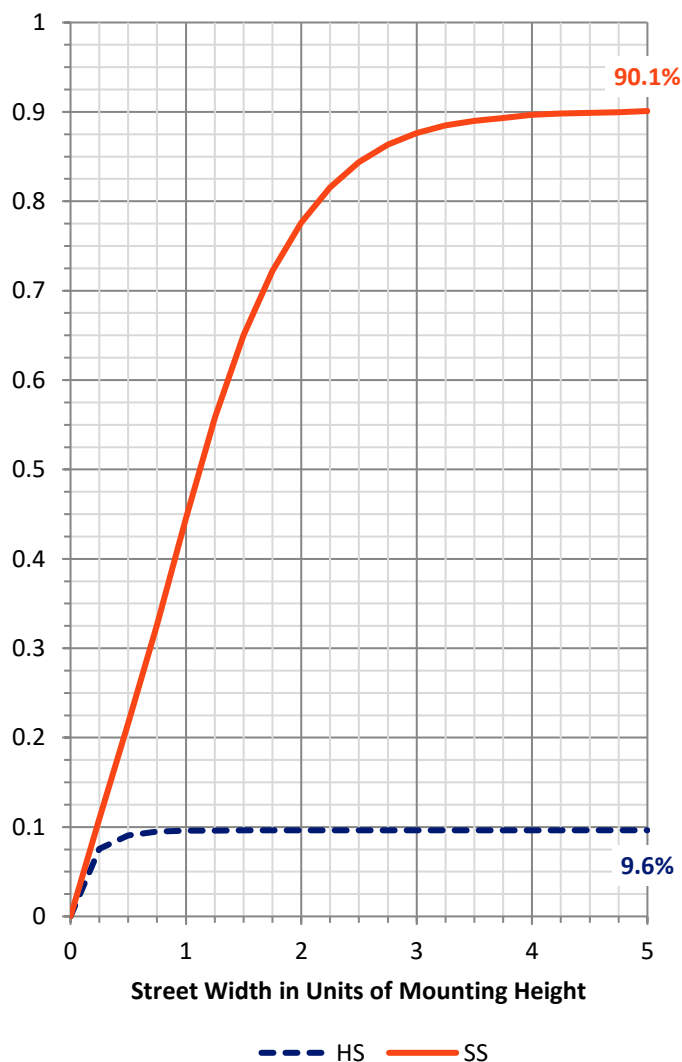
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1767.5	0.0	1767.5
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	16408.5	0.0	16408.5
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	18176.0	0.0	18176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.2	1.1
10°-20°	521.3	2.9
20°-30°	819.0	4.5
30°-40°	1412.4	7.8
40°-50°	2687.2	14.8
50°-60°	4255.7	23.4
60°-70°	4965.9	27.3
70°-80°	3110.2	17.1
80°-90°	204.2	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°	18176.0	100.0
0°-180°	18176.0	100.0

**Coefficient of Utilization**

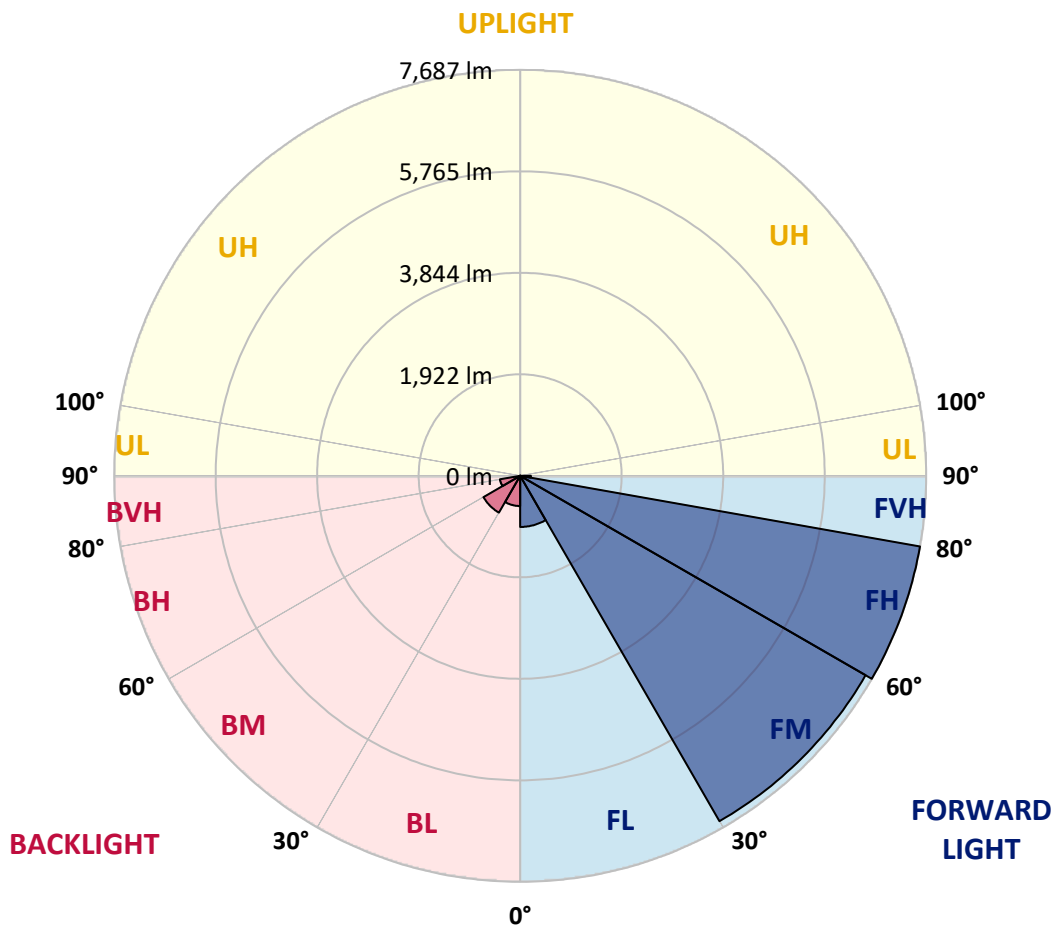


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.1	5.3			
FM (30°-60°)	7551.1	41.5			
FH (60°-80°)	7687.1	42.3			G4/12000
FVH (80°-90°)	202.2	1.1			G2/225
BL (0°-30°)	572.4	3.1	B2/1000		
BM (30°-60°)	804.2	4.4	B1/1000		
BH (60°-80°)	388.9	2.1	B1/500		G1/500
BVH (80°-90°)	2.0	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°	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0
2.5°	2171.3	2161.5	2158.3	2155.0	2158.3	2161.5	2151.8	2161.5	2155.0	2158.3	2164.8
5°	2093.2	2083.5	2080.2	2083.5	2093.2	2109.5	2116.0	2125.8	2125.8	2135.5	2138.8
7.5°	2005.5	1999.0	1995.7	2002.2	2021.7	2057.5	2077.0	2090.0	2103.0	2122.5	2142.0
10°	1956.7	1953.5	1950.2	1960.0	1979.5	2012.0	2038.0	2057.5	2106.3	2161.5	2197.3
12.5°	1924.2	1924.2	1930.7	1950.2	1976.2	2002.2	2064.0	2090.0	2164.8	2249.3	2298.0
15°	1898.2	1898.2	1908.0	1943.7	1979.5	2041.2	2132.3	2161.5	2249.3	2353.3	2418.3
17.5°	1878.7	1885.2	1891.7	1927.5	1995.7	2099.7	2207.0	2249.3	2356.5	2470.3	2541.8
20°	1882.0	1888.5	1891.7	1927.5	2025.0	2168.0	2304.5	2353.3	2476.8	2597.1	2668.6
22.5°	1901.5	1911.2	1914.5	1963.2	2077.0	2239.5	2415.0	2470.3	2603.6	2730.3	2785.6
25°	1982.7	1989.2	1969.7	2012.0	2151.8	2350.0	2558.1	2616.6	2749.8	2866.8	2912.3
27.5°	2259.0	2265.5	2158.3	2109.5	2210.3	2441.0	2733.6	2814.8	2980.6	3058.6	3065.1
30°	2857.1	2863.6	2652.3	2421.5	2350.0	2519.0	2831.1	2944.9	3159.4	3247.1	3208.1
32.5°	3627.4	3620.9	3331.6	2990.4	2681.6	2655.6	2970.9	3091.1	3325.1	3409.7	3380.4
35°	4401.0	4410.8	4163.7	3650.2	3208.1	2912.3	3149.6	3289.4	3572.2	3692.4	3640.4
37.5°	4930.8	4995.8	4888.6	4332.8	3855.0	3386.9	3438.9	3588.4	3942.7	4105.2	3994.7
40°	5678.4	5662.2	5402.1	4992.6	4570.0	4089.0	3907.0	3978.5	4384.8	4602.5	4430.3
42.5°	6682.8	6650.3	6208.2	5808.4	5337.1	4943.8	4573.3	4560.3	4891.8	5145.4	4895.1
45°	7592.9	7544.1	7241.9	6855.1	6338.3	5886.4	5385.9	5272.1	5502.9	5717.4	5424.9
47.5°	8317.7	8236.5	8022.0	7817.2	7690.4	6988.3	6237.5	6065.2	6182.2	6341.5	5928.7
50°	9175.8	8951.6	8639.5	8516.0	8779.3	8236.5	7056.6	6890.8	6884.3	6975.3	6448.8
52.5°	9565.9	9159.6	8984.1	9088.1	9552.9	9396.9	7940.7	7703.4	7609.2	7618.9	6933.1
55°	9094.6	9049.1	9143.3	9468.4	10076.2	9985.2	8789.0	8496.5	8356.7	8181.2	7397.9
57.5°	8558.3	8698.0	9071.8	9692.7	10739.3	10599.5	9624.4	9292.9	9036.1	8633.0	7914.7
60°	8064.2	8207.2	8824.8	9744.7	11103.3	11191.1	10320.0	10004.7	9624.4	9094.6	8483.5
62.5°	7313.4	7423.9	8291.7	9669.9	10944.1	11535.6	10804.3	10567.0	10212.7	9533.4	9136.8
65°	6468.3	6539.8	7397.9	9071.8	10632.0	11496.6	11204.1	11070.8	10726.3	9991.7	9783.7
67.5°	5541.9	5626.4	6341.5	7996.0	10020.9	11314.6	11581.1	11568.1	11174.8	10498.7	10251.7
70°	4475.8	4482.3	5073.9	6630.8	8954.8	10950.6	12049.2	12078.4	11603.9	10879.0	10271.2
72.5°	2142.0	2317.5	3289.4	4628.6	7277.6	10235.5	12354.7	12501.0	11873.7	10866.0	9162.8
75°	490.8	507.1	958.9	2200.5	4267.8	7856.2	11590.9	11863.9	11217.1	9396.9	6455.3
77.5°	178.8	188.5	269.8	643.6	1641.4	4059.7	8295.0	8694.8	8291.7	6075.0	3052.1
80°	120.3	117.0	139.8	286.0	754.1	1150.6	4241.8	4479.0	4089.0	2073.7	731.3
82.5°	61.8	65.0	97.5	159.3	507.1	399.8	1417.2	1540.7	1267.7	416.0	136.5
85°	29.3	29.3	55.3	100.8	214.5	139.8	315.3	380.3	341.3	182.0	45.5
87.5°	29.3	29.3	52.0	65.0	110.5	58.5	78.0	97.5	91.0	97.5	16.3
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°	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0	2181.0
2.5°	2164.8	2161.5	2158.3	2164.8	2161.5	2168.0	2168.0	2174.5	2174.5	2168.0	2164.8
5°	2135.5	2129.0	2122.5	2122.5	2119.3	2125.8	2145.3	2161.5	2164.8	2155.0	2151.8
7.5°	2138.8	2138.8	2132.3	2119.3	2096.5	2096.5	2096.5	2116.0	2125.8	2119.3	2116.0
10°	2197.3	2200.5	2184.3	2155.0	2116.0	2080.2	2012.0	1911.2	1817.0	1791.0	1781.2
12.5°	2298.0	2301.3	2268.8	2216.8	2135.5	1924.2	1664.2	1423.7	1238.4	1186.4	1176.6
15°	2418.3	2421.5	2363.0	2278.5	2031.5	1540.7	1153.9	880.9	718.3	679.3	676.1
17.5°	2541.8	2535.3	2447.5	2285.0	1722.7	1092.1	702.1	562.3	520.1	510.3	513.6
20°	2662.1	2642.6	2522.3	2164.8	1326.2	715.1	513.6	481.1	471.3	464.8	464.8
22.5°	2772.6	2733.6	2584.1	1927.5	929.6	513.6	458.3	451.8	438.8	429.1	425.8
25°	2883.1	2827.8	2623.1	1618.7	624.1	448.6	432.3	419.3	403.0	390.0	386.8
27.5°	3016.4	2938.3	2603.6	1228.6	468.1	416.0	403.0	383.5	360.8	341.3	334.8
30°	3143.1	3055.4	2493.0	848.4	399.8	383.5	364.0	334.8	305.5	282.8	276.3
32.5°	3302.4	3201.6	2294.8	555.8	347.8	334.8	315.3	279.5	240.5	214.5	208.0
35°	3529.9	3416.2	2041.2	390.0	305.5	282.8	256.8	217.8	175.5	156.0	152.8
37.5°	3848.5	3695.7	1722.7	315.3	269.8	237.3	198.3	159.3	130.0	113.8	110.5
40°	4238.5	4004.5	1368.4	279.5	240.5	198.3	149.5	113.8	94.3	81.3	81.3
42.5°	4661.1	4293.8	1007.6	256.8	211.3	162.5	110.5	81.3	68.3	61.8	58.5
45°	5096.6	4550.5	679.3	237.3	185.3	123.5	78.0	55.3	45.5	45.5	42.3
47.5°	5548.4	4722.8	438.8	214.5	156.0	91.0	52.0	39.0	32.5	32.5	32.5
50°	5997.0	4813.8	312.0	195.0	126.8	61.8	39.0	29.3	26.0	26.0	26.0
52.5°	6322.0	4755.3	250.3	169.0	97.5	45.5	29.3	22.8	19.5	19.5	19.5
55°	6604.8	4654.6	217.8	146.3	71.5	32.5	22.8	19.5	16.3	16.3	16.3
57.5°	6894.1	4524.5	195.0	123.5	52.0	22.8	16.3	13.0	13.0	13.0	13.0
60°	7157.4	4303.5	169.0	97.5	35.8	16.3	13.0	9.8	9.8	9.8	9.8
62.5°	7414.1	4115.0	146.3	74.8	26.0	13.0	6.5	6.5	3.3	3.3	3.3
65°	7560.4	3861.5	117.0	48.8	16.3	9.8	3.3	3.3	0.0	0.0	0.0
67.5°	7514.9	3559.2	81.3	29.3	9.8	6.5	3.3	0.0	0.0	0.0	0.0
70°	7199.6	3152.9	48.8	16.3	9.8	6.5	3.3	0.0	0.0	0.0	0.0
72.5°	6029.5	2333.8	29.3	13.0	6.5	3.3	0.0	0.0	0.0	0.0	0.0
75°	4027.2	1072.6	16.3	9.8	3.3	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1843.0	321.8	9.8	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	370.5	84.5	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	78.0	16.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.3	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.5	3.3	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)