

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: P381312

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

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381312  
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-PA3A-730-U-T4W-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

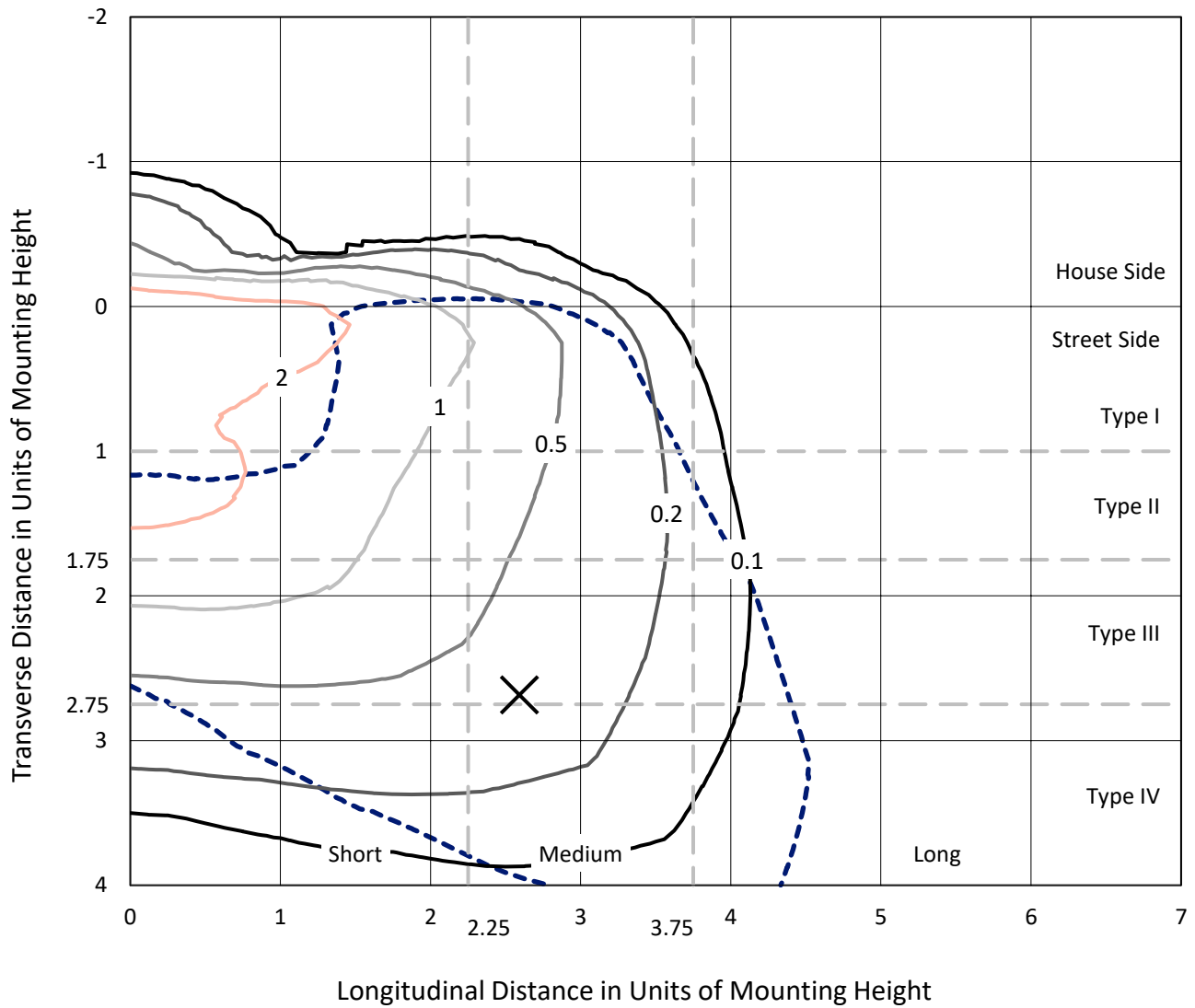
Lumens per Lamp: N/A  
Luminaire Lumens: 16044 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G4  
  
Input Watts (W): 172  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P381312  
 CATALOG NUMBER: PRV-XL-PA3A-730-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

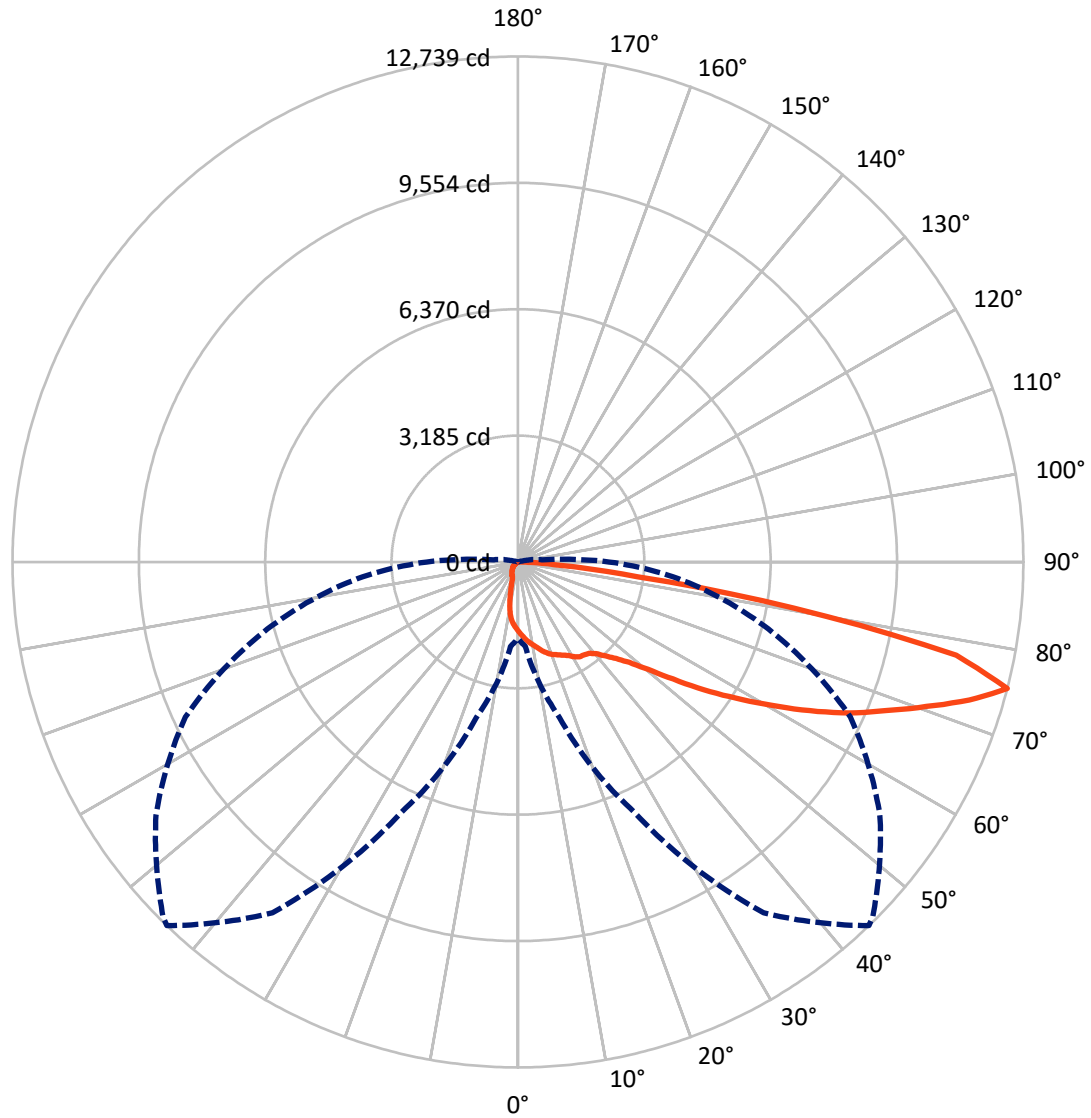
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P381312  
CATALOG NUMBER: PRV-XL-PA3A-730-U-T4W-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P381312  
 CATALOG NUMBER: PRV-XL-PA3A-730-U-T4W-HSS

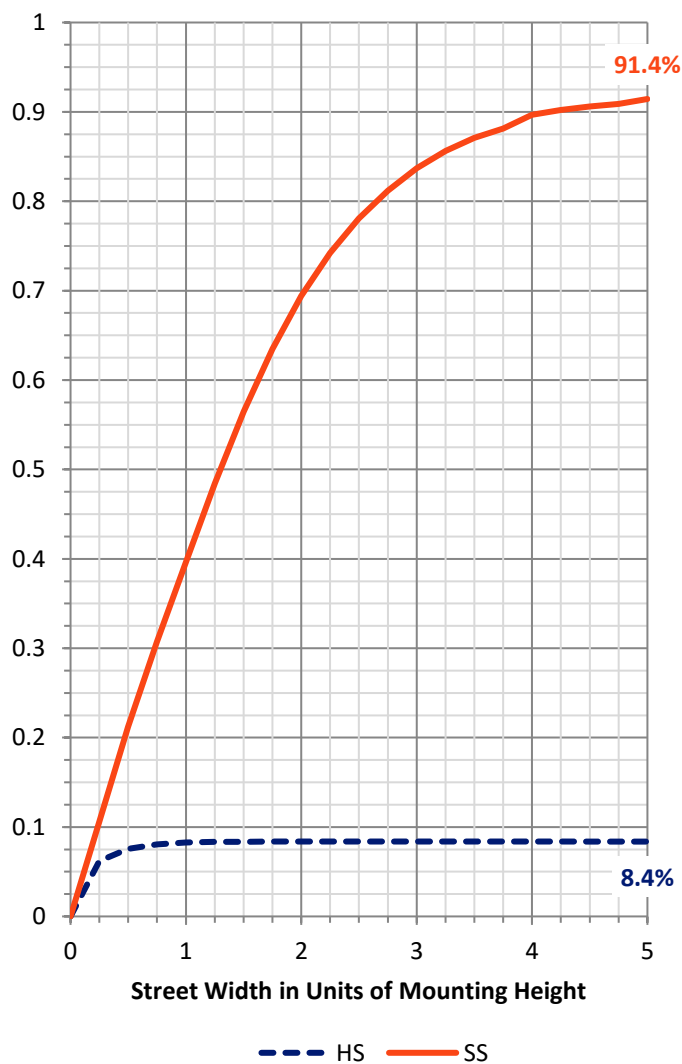
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1353.0	0.0	1353.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	14691.0	0.0	14691.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	16044.0	0.0	16044.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.7	1.0
10°-20°	461.5	2.9
20°-30°	761.6	4.7
30°-40°	1105.4	6.9
40°-50°	1796.8	11.2
50°-60°	3167.6	19.7
60°-70°	4552.5	28.4
70°-80°	3645.5	22.7
80°-90°	388.4	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°	16044.0	100.0
0°-180°	16044.0	100.0

**Coefficient of Utilization**

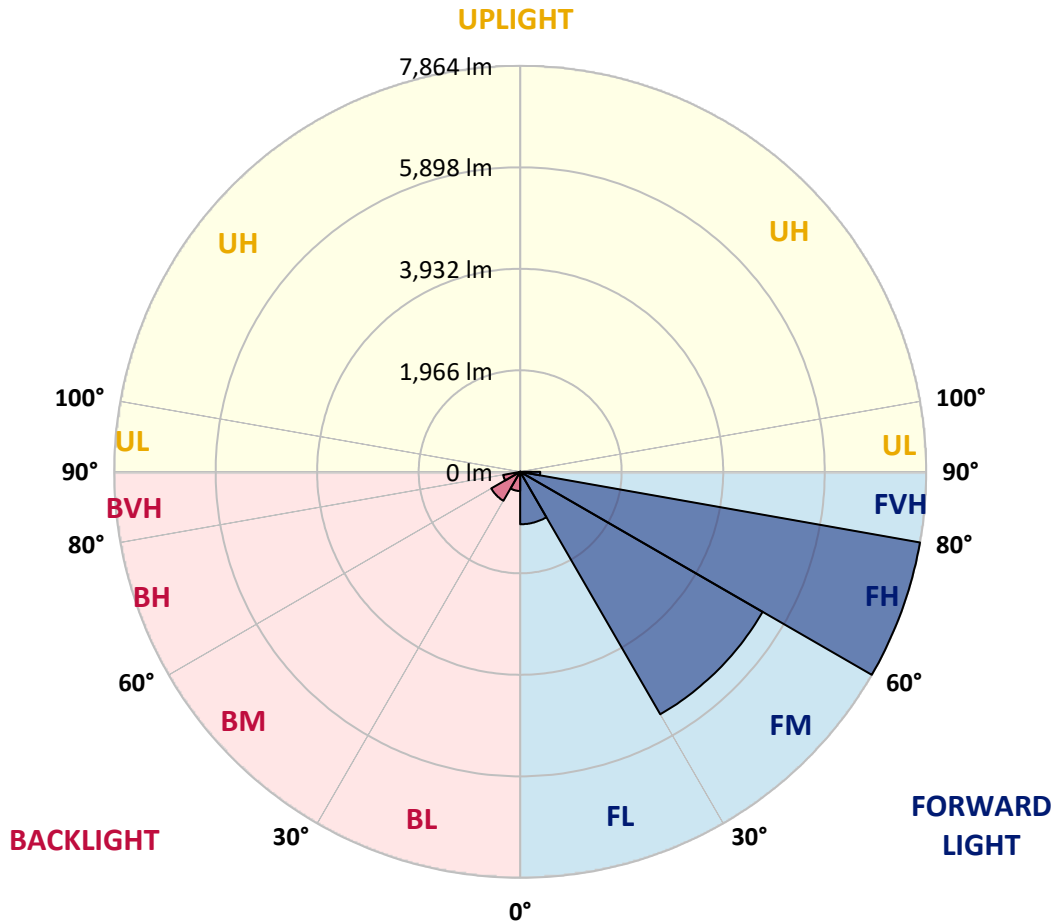


REPORT NUMBER: P381312  
 CATALOG NUMBER: PRV-XL-PA3A-730-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1016.0	6.3			
FM (30°-60°)	5423.0	33.8			
FH (60°-80°)	7864.5	49.0			G4/12000
FVH (80°-90°)	387.4	2.4			G3/500
BL (0°-30°)	371.7	2.3	B1/500		
BM (30°-60°)	646.8	4.0	B1/1000		
BH (60°-80°)	333.6	2.1	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**  
 Type IV Medium





REPORT NUMBER: P381312

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3
2.5°	1903.2	1900.2	1891.4	1876.6	1861.8	1847.0	1844.0	1820.3	1793.7	1773.0	1755.2
5°	2071.9	2069.0	2054.2	2021.6	1989.0	1950.6	1947.6	1891.4	1841.0	1784.8	1737.4
7.5°	2246.5	2240.6	2214.0	2163.7	2107.4	2048.2	2042.3	1959.4	1885.4	1811.4	1743.4
10°	2382.7	2376.8	2338.3	2279.1	2202.1	2128.2	2119.3	2033.4	1959.4	1864.7	1773.0
12.5°	2515.9	2504.1	2453.7	2388.6	2293.9	2222.9	2214.0	2125.2	2036.4	1938.7	1826.2
15°	2640.2	2625.4	2578.1	2495.2	2394.5	2326.5	2320.5	2225.8	2134.1	2021.6	1897.3
17.5°	2726.0	2720.1	2663.9	2572.1	2474.5	2418.2	2412.3	2314.6	2222.9	2104.5	1971.3
20°	2770.4	2770.4	2717.2	2616.5	2527.7	2489.3	2480.4	2388.6	2299.8	2187.4	2048.2
22.5°	2779.3	2788.2	2746.8	2637.3	2572.1	2539.6	2533.7	2453.7	2367.9	2264.3	2134.1
25°	2797.1	2797.1	2776.4	2658.0	2610.6	2601.7	2598.8	2527.7	2450.8	2347.2	2219.9
27.5°	2817.8	2817.8	2803.0	2687.6	2669.8	2666.9	2663.9	2631.3	2569.2	2447.8	2320.5
30°	2871.1	2874.0	2862.2	2746.8	2734.9	2767.5	2773.4	2755.6	2678.7	2527.7	2424.1
32.5°	3004.3	2977.6	2945.1	2788.2	2808.9	2850.4	2853.3	2817.8	2734.9	2613.6	2548.5
35°	3338.7	3181.9	3033.9	2823.7	2832.6	2874.0	2880.0	2877.0	2826.7	2723.1	2690.5
37.5°	3649.5	3427.5	3217.4	2906.6	2877.0	2921.4	2933.2	2983.6	2945.1	2874.0	2882.9
40°	3830.1	3744.2	3596.3	3134.5	2965.8	3033.9	3045.7	3122.7	3107.9	3078.3	3134.5
42.5°	4386.5	4392.5	4232.6	3474.9	3128.6	3238.1	3252.9	3315.1	3335.8	3350.6	3486.7
45°	5031.8	5052.5	5014.0	4087.6	3436.4	3471.9	3492.7	3575.5	3652.5	3747.2	3995.8
47.5°	5807.3	5789.5	5647.4	4836.4	3972.2	3773.8	3788.6	3948.5	4081.7	4288.9	4644.1
50°	6494.0	6538.4	6269.0	5535.0	4726.9	4250.4	4235.6	4392.5	4632.2	4922.3	5369.2
52.5°	7186.6	7121.5	6757.4	6227.6	5620.8	4898.6	4854.2	4940.0	5277.5	5620.8	6079.6
55°	7370.1	7376.0	7251.7	6985.3	6366.7	5685.9	5611.9	5606.0	6026.3	6260.1	6825.5
57.5°	7731.2	7746.0	7775.6	7828.9	7535.9	6473.3	6396.3	6313.4	6721.9	6858.0	7574.3
60°	8098.2	8116.0	8296.5	8583.6	8388.3	7322.7	7239.9	7044.5	7272.4	7455.9	8361.7
62.5°	8050.9	8175.2	8699.1	9270.3	9246.7	8255.1	8151.5	7680.9	7825.9	7985.8	9083.9
65°	7269.5	7402.7	8580.7	9459.8	10108.0	9175.6	9006.9	8338.0	8346.9	8539.3	9779.4
67.5°	6570.9	6716.0	7840.7	9379.9	10676.3	10001.4	9826.8	8998.0	8858.9	9178.6	10152.4
70°	6168.4	6313.4	7251.7	9131.2	10836.1	10916.0	10765.1	9752.8	9468.7	9761.7	9735.0
72.5°	4827.6	5055.5	6499.9	8657.6	11007.8	11895.8	11777.4	10708.8	9986.6	9151.9	7411.5
75°	1923.9	2134.1	4058.0	6967.6	10791.7	12739.3	12647.6	11138.0	9243.7	6535.4	3794.6
77.5°	580.1	621.6	1127.7	3445.3	7911.8	11294.9	11265.3	9365.1	6541.3	3033.9	1036.0
80°	192.4	213.1	346.3	950.1	3611.1	7056.4	7189.5	5967.1	2971.7	695.6	210.2
82.5°	79.9	88.8	174.6	381.8	1278.7	3039.8	2995.4	2672.8	1036.0	432.1	77.0
85°	20.7	26.6	79.9	219.0	467.7	1047.8	1101.1	896.8	586.1	358.1	23.7
87.5°	0.0	0.0	38.5	88.8	210.2	316.7	331.5	272.3	331.5	269.3	11.8
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: P381312

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

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3	1746.3
2.5°	1740.4	1725.6	1699.0	1681.2	1657.5	1651.6	1639.8	1625.0	1622.0	1607.2	1610.2
5°	1710.8	1687.1	1639.8	1607.2	1568.7	1556.9	1536.2	1521.4	1509.5	1488.8	1491.8
7.5°	1704.9	1669.4	1604.3	1542.1	1479.9	1435.5	1373.4	1323.1	1281.6	1237.2	1246.1
10°	1725.6	1681.2	1589.5	1503.6	1391.1	1249.1	1086.3	979.7	926.4	873.2	879.1
12.5°	1767.0	1713.8	1595.4	1465.1	1237.2	994.5	769.6	624.5	586.1	562.4	565.3
15°	1829.2	1764.1	1613.1	1391.1	1030.0	719.3	512.1	449.9	464.7	473.6	473.6
17.5°	1894.3	1820.3	1627.9	1257.9	796.2	503.2	417.3	411.4	432.1	452.9	452.9
20°	1974.2	1879.5	1630.9	1089.2	574.2	408.5	393.7	393.7	408.5	432.1	432.1
22.5°	2051.2	1944.6	1604.3	896.8	438.1	378.9	378.9	378.9	387.7	411.4	414.4
25°	2143.0	2024.6	1548.0	692.6	375.9	361.1	361.1	364.1	370.0	390.7	393.7
27.5°	2240.6	2107.4	1453.3	506.1	343.3	340.4	343.3	346.3	349.3	370.0	375.9
30°	2353.1	2199.2	1331.9	378.9	313.7	313.7	322.6	328.5	328.5	346.3	352.2
32.5°	2483.3	2320.5	1186.9	313.7	284.1	281.2	296.0	304.9	304.9	319.7	325.6
35°	2646.1	2444.9	1012.3	278.2	260.5	254.5	260.5	275.3	281.2	293.0	296.0
37.5°	2862.2	2592.9	825.8	257.5	242.7	230.9	230.9	233.8	245.7	257.5	260.5
40°	3137.5	2755.6	642.3	242.7	225.0	213.1	204.2	201.3	198.3	207.2	213.1
42.5°	3483.8	2939.2	479.5	227.9	210.2	192.4	180.6	168.7	153.9	151.0	153.9
45°	3927.8	3164.1	355.2	216.1	201.3	174.6	153.9	133.2	106.6	97.7	100.6
47.5°	4451.7	3397.9	278.2	204.2	195.4	153.9	127.3	91.8	65.1	59.2	62.2
50°	5008.1	3622.9	236.8	189.4	183.5	133.2	91.8	56.2	38.5	38.5	41.4
52.5°	5481.7	3750.2	216.1	177.6	165.8	109.5	59.2	32.6	23.7	23.7	26.6
55°	5940.5	3818.2	201.3	165.8	142.1	77.0	32.6	20.7	14.8	14.8	14.8
57.5°	6414.1	3847.8	183.5	151.0	112.5	47.4	17.8	11.8	8.9	8.9	8.9
60°	6834.4	3791.6	156.9	124.3	74.0	23.7	8.9	8.9	5.9	3.0	3.0
62.5°	7186.6	3685.0	109.5	88.8	44.4	11.8	5.9	3.0	0.0	0.0	0.0
65°	7402.7	3513.4	71.0	59.2	26.6	8.9	3.0	0.0	0.0	0.0	0.0
67.5°	7340.5	3190.7	44.4	38.5	11.8	5.9	3.0	0.0	0.0	0.0	0.0
70°	6624.2	2616.5	32.6	23.7	8.9	3.0	0.0	0.0	0.0	0.0	0.0
72.5°	4774.3	1770.0	23.7	14.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	2296.9	630.5	14.8	11.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	562.4	139.1	8.9	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	124.3	26.6	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.4	11.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	3.0	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)