

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: P381320

Luminaire Tested: **PRV-XL-PA3A-8540-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3A-8540-U-T4W-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 85 CRI, 4000K, 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: 13794.2 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

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

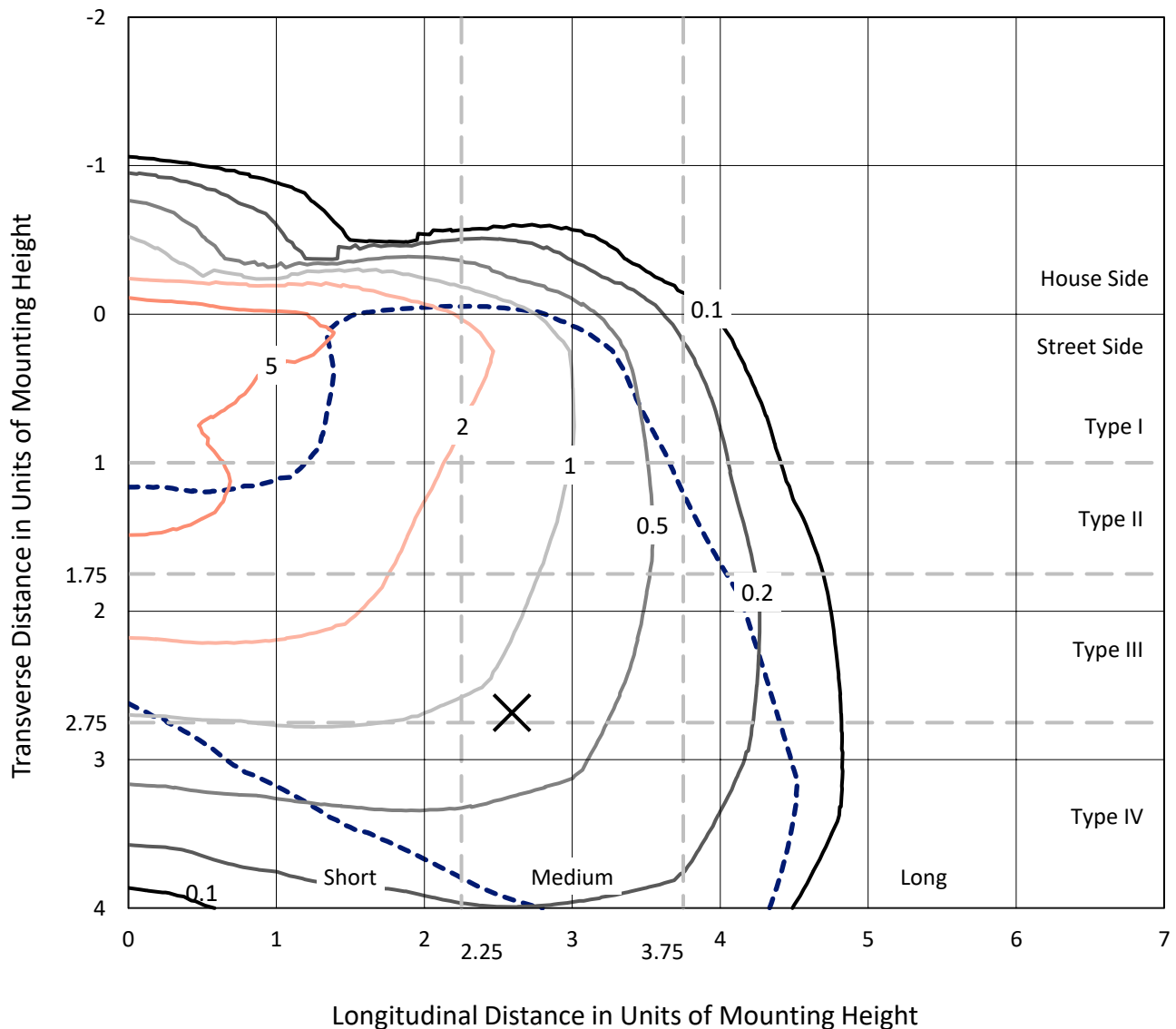


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

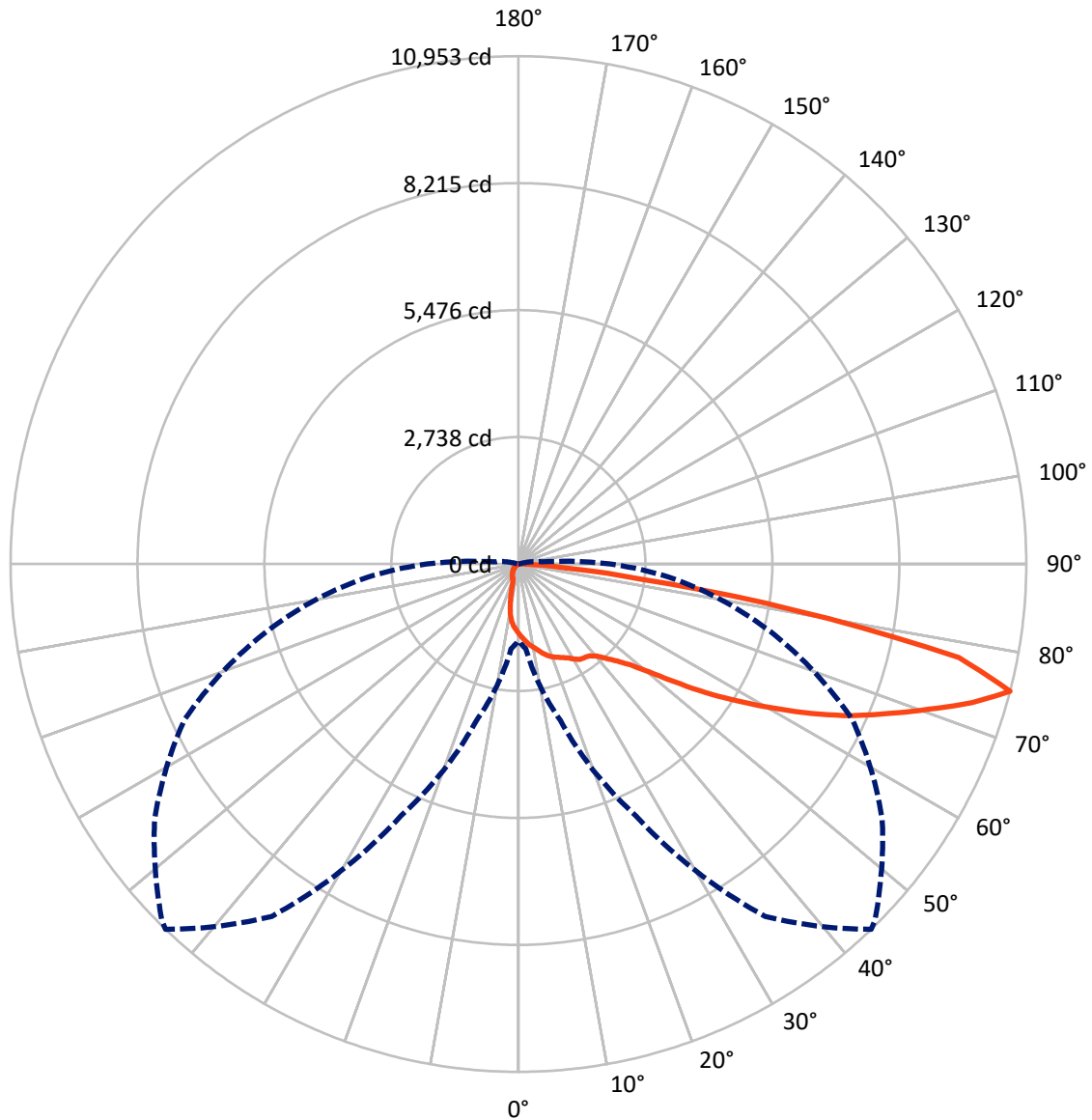


Based on 15 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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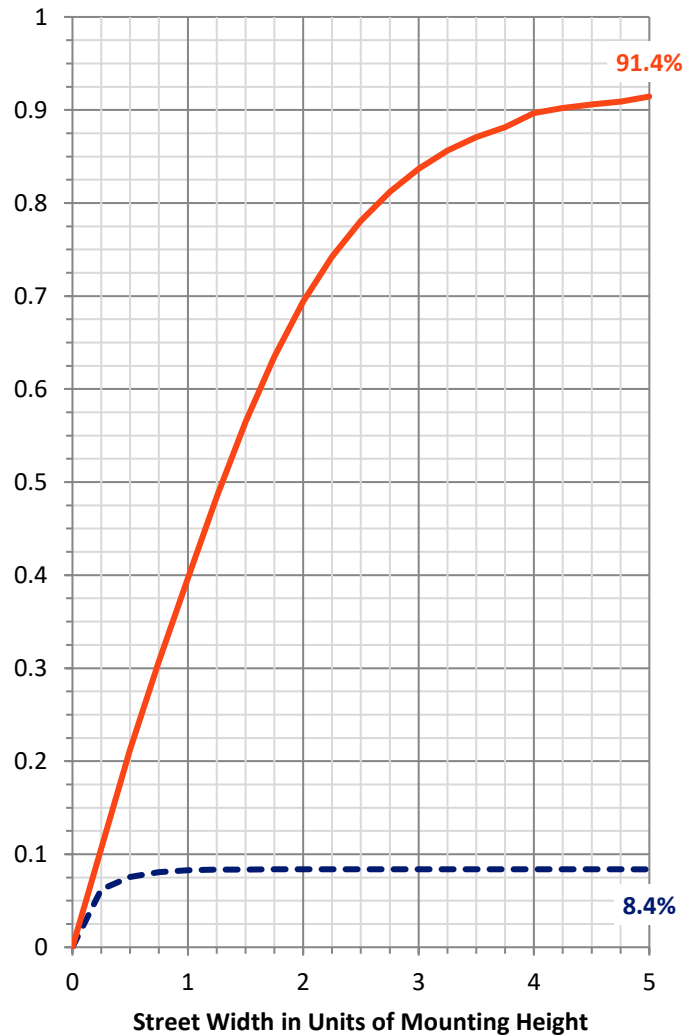
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1163.3	0.0	1163.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12630.8	0.0	12630.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	13794.2	0.0	13794.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	1.0
10°-20°	396.8	2.9
20°-30°	654.8	4.7
30°-40°	950.3	6.9
40°-50°	1544.9	11.2
50°-60°	2723.4	19.7
60°-70°	3914.1	28.4
70°-80°	3134.3	22.7
80°-90°	333.9	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°	13794.2	100.0
0°-180°	13794.2	100.0

Coefficient of Utilization



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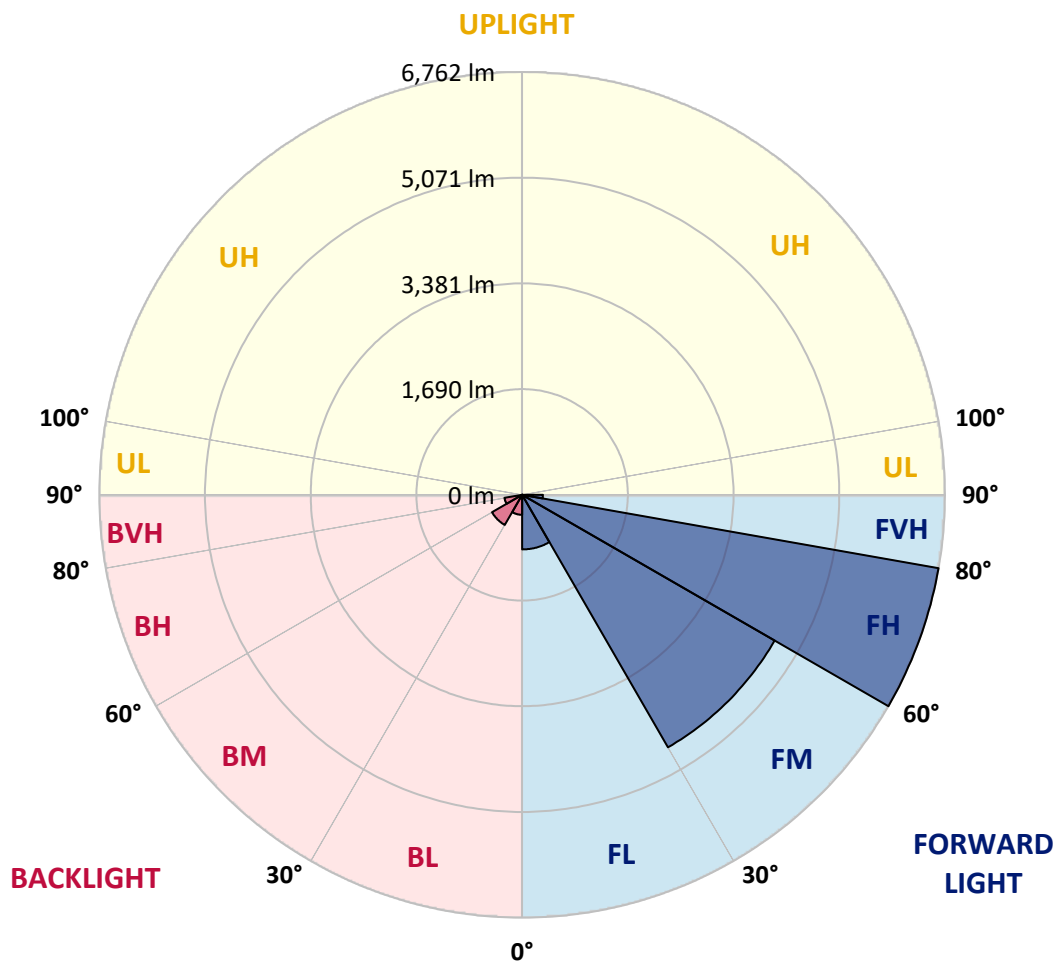
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	873.6	6.3			
FM	(30°-60°)	4662.5	33.8			
FH	(60°-80°)	6761.6	49.0			G3/7500
FVH	(80°-90°)	333.1	2.4			G3/500
BL	(0°-30°)	319.6	2.3	B1/500		
BM	(30°-60°)	556.1	4.0	B1/1000		
BH	(60°-80°)	286.8	2.1	B1/500		G1/500
BVH	(80°-90°)	0.8	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-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4
2.5°	1636.3	1633.7	1626.1	1613.4	1600.7	1587.9	1585.4	1565.1	1542.1	1524.3	1509.1
5°	1781.4	1778.8	1766.1	1738.1	1710.1	1677.0	1674.4	1626.1	1582.8	1534.5	1493.8
7.5°	1931.5	1926.4	1903.6	1860.3	1811.9	1761.0	1756.0	1684.6	1621.0	1557.4	1498.9
10°	2048.6	2043.5	2010.4	1959.5	1893.4	1829.7	1822.1	1748.3	1684.6	1603.2	1524.3
12.5°	2163.1	2152.9	2109.6	2053.7	1972.2	1911.1	1903.6	1827.2	1750.9	1666.9	1570.1
15°	2270.0	2257.2	2216.5	2145.3	2058.7	2000.3	1995.2	1913.7	1834.8	1738.1	1631.2
17.5°	2343.8	2338.7	2290.4	2211.4	2127.5	2079.1	2074.0	1990.1	1911.1	1809.4	1694.8
20°	2382.0	2382.0	2336.2	2249.6	2173.3	2140.2	2132.6	2053.7	1977.3	1880.6	1761.0
22.5°	2389.6	2397.2	2361.6	2267.4	2211.4	2183.5	2178.4	2109.6	2035.9	1946.8	1834.8
25°	2404.8	2404.8	2387.1	2285.3	2244.5	2236.9	2234.4	2173.3	2107.1	2018.0	1908.6
27.5°	2422.7	2422.7	2409.9	2310.7	2295.4	2292.9	2290.4	2262.3	2208.9	2104.5	1995.2
30°	2468.5	2471.0	2460.8	2361.6	2351.4	2379.4	2384.5	2369.2	2303.0	2173.3	2084.2
32.5°	2583.0	2560.1	2532.1	2397.2	2415.0	2450.6	2453.2	2422.7	2351.4	2247.1	2191.1
35°	2870.6	2735.6	2608.4	2427.8	2435.4	2471.0	2476.1	2473.6	2430.3	2341.2	2313.2
37.5°	3137.7	2946.9	2766.2	2499.0	2473.6	2511.7	2521.9	2565.2	2532.1	2471.0	2478.7
40°	3293.0	3219.1	3091.9	2694.9	2549.9	2608.4	2618.6	2684.8	2672.1	2646.6	2694.9
42.5°	3771.4	3776.5	3639.1	2987.6	2689.8	2784.0	2796.7	2850.2	2868.0	2880.7	2997.8
45°	4326.2	4344.0	4310.9	3514.4	2954.5	2985.0	3002.9	3074.1	3140.3	3221.7	3435.5
47.5°	4992.9	4977.6	4855.5	4158.2	3415.1	3244.6	3257.4	3394.8	3509.3	3687.5	3992.8
50°	5583.3	5621.5	5389.9	4758.8	4064.1	3654.3	3641.7	3776.5	3982.7	4232.0	4616.3
52.5°	6178.8	6122.8	5809.8	5354.3	4832.6	4211.7	4173.5	4247.3	4537.4	4832.6	5227.1
55°	6336.6	6341.7	6234.8	6005.8	5473.9	4888.6	4824.9	4819.8	5181.3	5382.3	5868.4
57.5°	6647.0	6659.7	6685.2	6731.0	6479.1	5565.5	5499.3	5428.1	5779.2	5896.3	6512.1
60°	6962.6	6977.9	7133.1	7379.9	7212.0	6295.9	6224.6	6056.7	6252.6	6410.3	7189.1
62.5°	6921.9	7028.8	7479.2	7970.3	7950.0	7097.5	7008.4	6603.7	6728.5	6865.9	7810.0
65°	6250.1	6364.5	7377.4	8133.2	8690.5	7888.9	7743.9	7168.8	7176.4	7341.8	8408.0
67.5°	5649.5	5774.2	6741.2	8064.5	9179.1	8598.9	8448.7	7736.2	7616.6	7891.5	8728.7
70°	5303.4	5428.1	6234.8	7850.7	9316.5	9385.3	9255.5	8385.1	8140.9	8392.7	8369.9
72.5°	4150.6	4346.5	5588.4	7443.6	9464.1	10227.5	10125.8	9207.1	8586.1	7868.5	6372.2
75°	1654.1	1834.8	3489.0	5990.5	9278.4	10952.8	10874.0	9576.1	7947.4	5619.0	3262.4
77.5°	498.8	534.4	969.6	2962.2	6802.2	9711.0	9685.6	8051.7	5624.1	2608.4	890.7
80°	165.4	183.2	297.8	816.9	3104.7	6066.8	6181.3	5130.3	2555.0	598.1	180.7
82.5°	68.7	76.3	150.2	328.3	1099.3	2613.5	2575.4	2297.9	890.7	371.5	66.2
85°	17.9	22.9	68.7	188.3	402.1	900.8	946.6	771.1	503.9	308.0	20.4
87.5°	0.0	0.0	33.1	76.3	180.7	272.3	285.0	234.1	285.0	231.6	10.2
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°	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4	1501.4
2.5°	1496.3	1483.6	1460.7	1445.4	1425.1	1420.0	1409.8	1397.1	1394.5	1381.8	1384.3
5°	1470.9	1450.5	1409.8	1381.8	1348.7	1338.5	1320.8	1308.0	1297.8	1280.0	1282.6
7.5°	1465.8	1435.2	1379.3	1325.9	1272.4	1234.2	1180.8	1137.5	1101.9	1063.7	1071.4
10°	1483.6	1445.4	1366.6	1292.7	1196.0	1073.9	934.0	842.4	796.5	750.7	755.8
12.5°	1519.3	1473.4	1371.7	1259.7	1063.7	855.0	661.6	537.0	503.9	483.5	486.1
15°	1572.7	1516.7	1386.9	1196.0	885.6	618.4	440.3	386.8	399.6	407.2	407.2
17.5°	1628.6	1565.1	1399.6	1081.6	684.6	432.6	358.8	353.8	371.5	389.4	389.4
20°	1697.4	1616.0	1402.2	936.5	493.7	351.2	338.5	338.5	351.2	371.5	371.5
22.5°	1763.6	1671.9	1379.3	771.1	376.6	325.7	325.7	325.7	333.4	353.8	356.3
25°	1842.5	1740.7	1330.9	595.5	323.2	310.5	310.5	313.0	318.1	335.9	338.5
27.5°	1926.4	1811.9	1249.5	435.2	295.2	292.7	295.2	297.8	300.3	318.1	323.2
30°	2023.1	1890.8	1145.1	325.7	269.7	269.7	277.4	282.5	282.5	297.8	302.9
32.5°	2135.1	1995.2	1020.5	269.7	244.3	241.8	254.5	262.1	262.1	274.8	279.9
35°	2275.1	2102.0	870.3	239.2	223.9	218.8	223.9	236.7	241.8	252.0	254.5
37.5°	2460.8	2229.3	710.0	221.4	208.7	198.5	198.5	201.1	211.3	221.4	223.9
40°	2697.5	2369.2	552.2	208.7	193.4	183.2	175.6	173.0	170.5	178.1	183.2
42.5°	2995.2	2527.0	412.2	196.0	180.7	165.4	155.3	145.1	132.3	129.8	132.3
45°	3376.9	2720.4	305.4	185.8	173.0	150.2	132.3	114.6	91.6	84.0	86.5
47.5°	3827.4	2921.5	239.2	175.6	168.0	132.3	109.5	78.9	56.0	50.9	53.5
50°	4305.8	3114.9	203.6	162.9	157.8	114.6	78.9	48.4	33.1	33.1	35.6
52.5°	4713.0	3224.2	185.8	152.7	142.5	94.2	50.9	28.0	20.4	20.4	22.9
55°	5107.4	3282.8	173.0	142.5	122.1	66.2	28.0	17.9	12.8	12.8	12.8
57.5°	5514.6	3308.3	157.8	129.8	96.7	40.7	15.3	10.2	7.7	7.7	7.7
60°	5875.9	3259.9	134.9	106.9	63.7	20.4	7.7	7.7	5.1	2.6	2.6
62.5°	6178.8	3168.3	94.2	76.3	38.2	10.2	5.1	2.6	0.0	0.0	0.0
65°	6364.5	3020.7	61.1	50.9	22.9	7.7	2.6	0.0	0.0	0.0	0.0
67.5°	6311.1	2743.3	38.2	33.1	10.2	5.1	2.6	0.0	0.0	0.0	0.0
70°	5695.3	2249.6	28.0	20.4	7.7	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	4104.8	1521.8	20.4	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0
75°	1974.8	542.1	12.8	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	483.5	119.6	7.7	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	106.9	22.9	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.6	10.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	2.6	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)