

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: P287022

Luminaire Tested: **PFPRV-C15-D-UNV-T3-BZ-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P287022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-7)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PFPRV-C15-D-UNV-T3-BZ-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD, BRONZE PAINTED FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

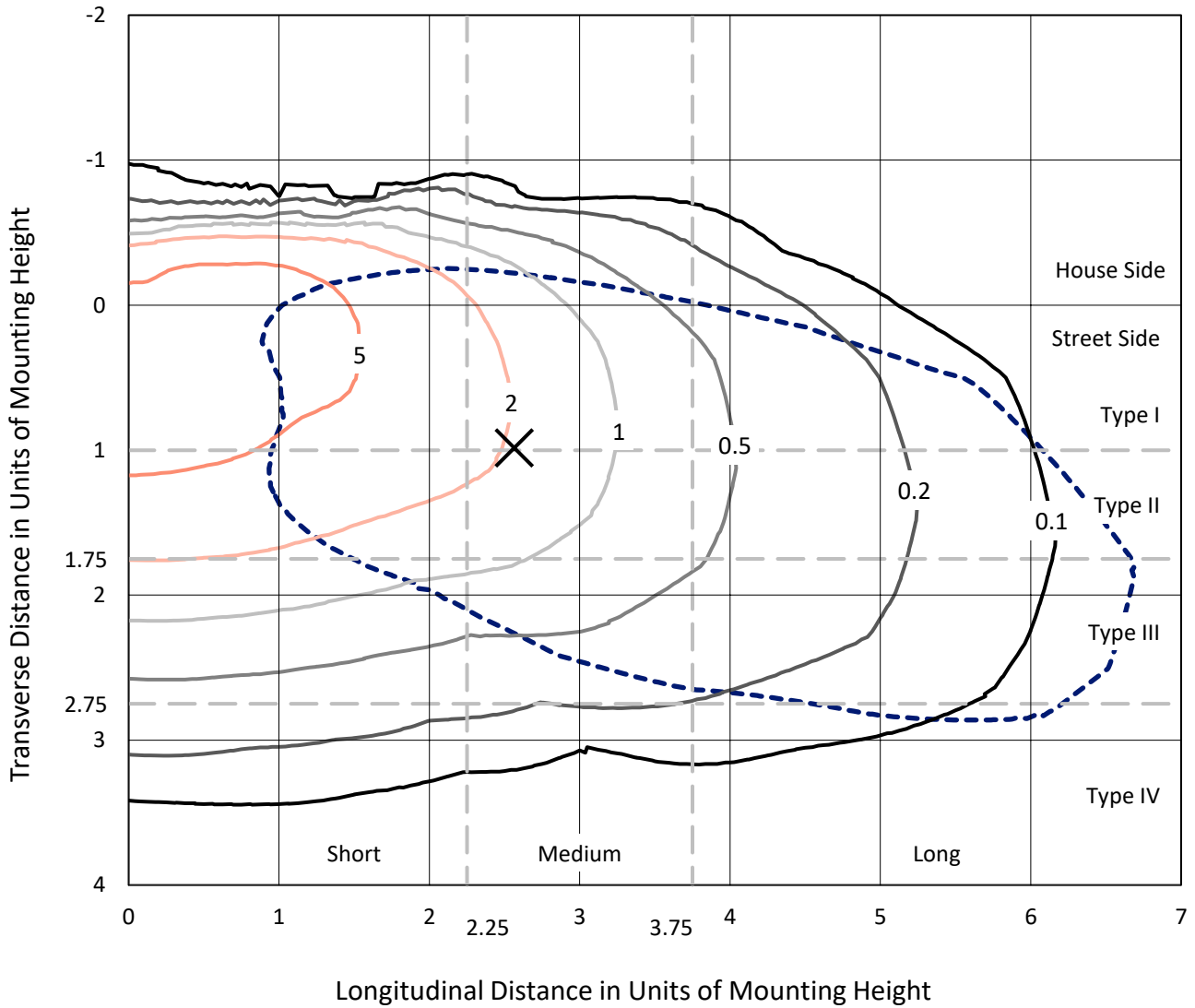
Lumens per Lamp: N/A  
Luminaire Lumens: 6460 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 52  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

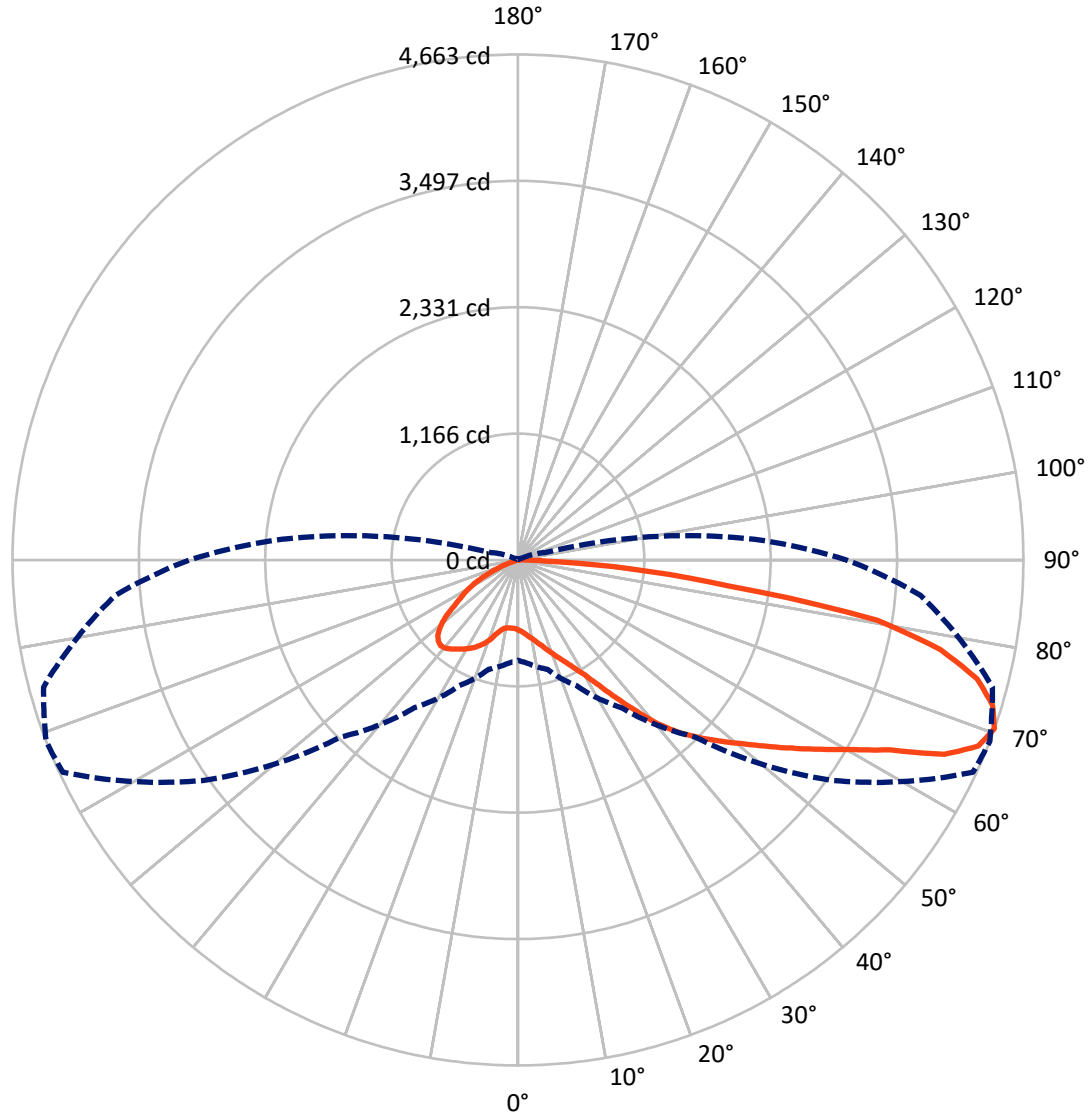
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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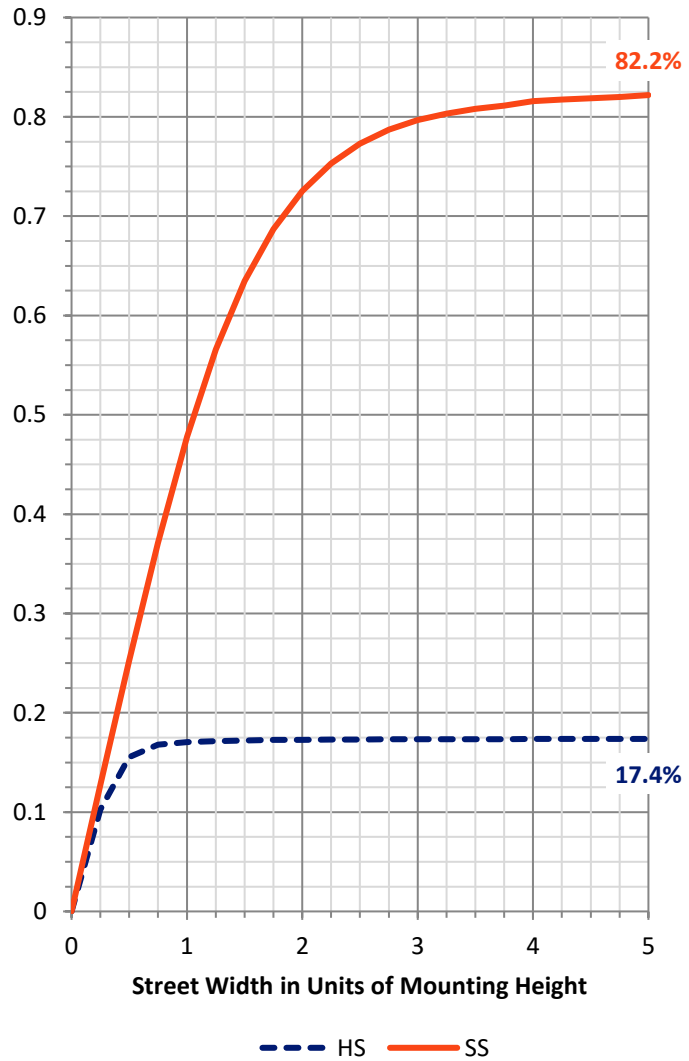
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1134.8	0.0	1134.8
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	5325.2	0.0	5325.2
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	6460.0	0.0	6460.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.8	1.0
10°-20°	199.2	3.1
20°-30°	365.4	5.7
30°-40°	627.6	9.7
40°-50°	980.8	15.2
50°-60°	1309.9	20.3
60°-70°	1533.0	23.7
70°-80°	1151.6	17.8
80°-90°	229.6	3.6
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°	6460.0	100.0
0°-180°	6460.0	100.0

**Coefficient of Utilization**



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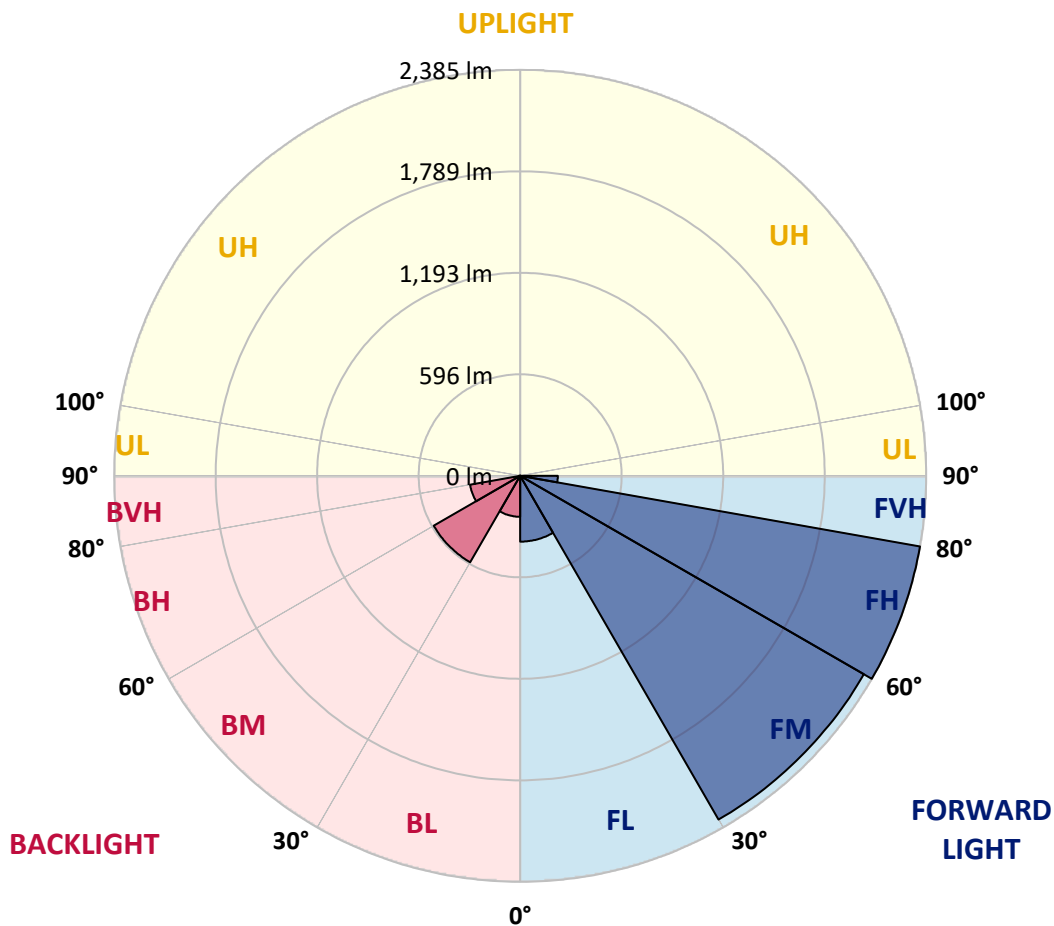
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.7	6.0			
FM (30°-60°)	2332.0	36.1			
FH (60°-80°)	2385.5	36.9			G2/5000
FVH (80°-90°)	221.1	3.4			G2/225
BL (0°-30°)	240.8	3.7	B1/500		
BM (30°-60°)	586.4	9.1	B1/1000		
BH (60°-80°)	299.1	4.6	B1/500		G1/500
BVH (80°-90°)	8.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	645.9	645.9	645.9	645.9	645.9	645.9	645.9	645.9	645.9	645.9	645.9
2.5°	690.8	695.6	692.5	681.4	679.3	678.6	671.3	665.1	661.2	660.2	648.4
5°	728.3	732.2	731.1	718.6	715.1	707.1	700.9	684.5	682.1	678.6	664.4
7.5°	756.5	757.2	763.4	753.0	749.5	739.8	730.8	715.8	713.0	707.5	687.3
10°	782.6	787.4	790.9	777.7	783.3	771.1	760.3	749.9	738.4	738.1	712.7
12.5°	799.2	802.0	809.7	799.2	807.2	806.9	797.2	785.3	778.7	772.8	744.0
15°	809.7	812.8	822.9	830.9	833.7	838.2	837.8	828.8	817.3	815.2	785.3
17.5°	826.0	828.8	836.4	849.3	859.0	869.1	877.1	877.8	870.9	868.4	841.0
20°	850.7	850.4	854.5	861.8	880.3	902.5	920.2	926.8	924.1	923.7	903.5
22.5°	876.8	875.4	879.6	883.0	902.2	939.4	968.6	985.2	986.3	984.2	980.7
25°	918.5	911.5	911.2	915.0	940.4	983.5	1021.7	1050.3	1053.0	1058.6	1089.5
27.5°	1024.5	1023.5	992.5	966.1	983.2	1032.2	1088.5	1126.0	1138.9	1160.1	1218.5
30°	1177.1	1171.2	1158.4	1096.8	1050.9	1095.8	1166.7	1224.8	1238.3	1313.8	1365.9
32.5°	1314.1	1307.5	1302.3	1245.3	1182.0	1171.9	1243.2	1342.3	1381.2	1498.0	1537.0
35°	1433.7	1429.9	1429.9	1391.6	1327.7	1284.2	1335.0	1467.4	1560.9	1724.3	1734.8
37.5°	1542.2	1545.3	1549.5	1507.4	1474.7	1460.8	1457.0	1622.5	1761.9	1933.6	1935.0
40°	1638.1	1645.1	1653.4	1622.8	1600.6	1612.7	1590.2	1809.5	1983.0	2169.3	2125.5
42.5°	1712.9	1722.3	1764.3	1721.9	1738.3	1762.9	1758.1	1958.0	2172.8	2341.8	2299.4
45°	1768.5	1775.8	1801.2	1813.3	1852.3	1901.6	1912.4	2110.2	2335.5	2498.9	2441.2
47.5°	1812.0	1806.7	1822.0	1884.3	1966.3	2021.6	2064.3	2284.8	2494.7	2644.2	2565.3
50°	1832.1	1831.4	1869.3	1945.8	2065.7	2144.7	2226.7	2512.5	2661.3	2782.9	2693.6
52.5°	1847.1	1859.2	1919.0	2008.4	2164.8	2272.6	2358.8	2732.9	2850.7	2935.6	2834.4
55°	1858.2	1881.8	1940.6	2042.8	2233.0	2382.8	2497.5	2933.1	3062.8	3079.8	2961.3
57.5°	1789.0	1814.0	1906.9	2052.9	2286.1	2478.1	2640.4	3162.9	3292.6	3282.5	3097.2
60°	1671.9	1692.0	1805.3	2024.0	2292.8	2584.1	2844.8	3418.4	3550.2	3548.8	3258.2
62.5°	1548.1	1566.2	1678.1	1928.8	2248.6	2641.8	3083.3	3801.9	3856.8	3802.3	3404.9
65°	1390.6	1409.0	1520.3	1768.8	2139.8	2638.7	3284.6	4212.1	4322.7	4164.9	3570.0
67.5°	1182.0	1211.6	1312.0	1542.2	1930.2	2538.2	3459.1	4521.5	4580.6	4438.1	3672.6
70°	924.7	953.6	1044.3	1279.4	1662.8	2308.4	3545.0	4632.4	4662.7	4530.9	3726.5
72.5°	645.9	669.9	710.9	914.3	1292.2	1953.8	3539.8	4578.9	4577.5	4443.7	3603.7
75°	230.1	262.5	428.7	552.4	752.3	1436.8	3308.2	4358.5	4373.8	4252.5	3351.0
77.5°	59.8	62.6	132.1	266.6	422.7	695.0	2456.8	3944.4	3985.8	3845.0	2946.3
80°	43.8	45.9	63.6	185.6	242.0	305.9	1347.5	3232.1	3360.4	3287.0	2259.0
82.5°	30.9	33.4	46.6	122.4	159.9	203.4	506.2	1755.3	1959.0	1947.2	1114.9
85°	19.5	21.2	29.2	43.8	60.8	81.7	142.5	901.1	1033.9	1089.9	487.4
87.5°	9.0	10.4	16.3	26.1	37.2	43.1	43.1	193.3	240.9	255.9	103.9
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°	645.9	645.9	645.9	645.9	645.9	645.9	645.9	645.9	645.9	645.9	645.9
2.5°	642.1	646.3	637.2	632.0	621.3	616.0	613.3	608.0	606.6	609.1	611.5
5°	657.1	658.1	639.7	624.0	610.5	595.2	587.9	572.6	566.0	568.4	571.2
7.5°	676.2	674.4	646.3	623.0	598.7	577.4	562.5	538.2	531.2	529.5	533.3
10°	694.3	685.6	654.3	622.6	590.3	561.1	538.2	512.4	495.7	493.7	494.4
12.5°	726.9	710.2	674.1	629.6	590.7	558.7	525.3	487.4	467.9	461.7	461.7
15°	772.1	744.3	710.2	659.1	612.9	567.4	519.7	470.4	436.3	421.4	421.0
17.5°	820.8	797.2	761.0	700.2	639.3	574.7	507.6	443.6	398.8	377.5	375.5
20°	887.9	874.3	833.0	749.5	664.7	575.7	492.3	410.6	350.1	321.2	315.0
22.5°	982.8	964.4	895.2	788.1	673.4	567.0	463.1	357.4	283.0	245.1	241.3
25°	1080.8	1052.7	955.7	815.2	680.0	549.6	421.0	283.7	203.4	167.9	163.4
27.5°	1189.3	1145.2	1007.5	841.0	672.0	519.7	346.6	197.5	132.1	109.5	105.0
30°	1315.2	1250.8	1063.1	858.7	663.3	459.2	256.6	127.9	85.5	68.8	67.8
32.5°	1471.3	1382.3	1118.0	867.4	632.0	380.3	165.8	81.7	52.8	44.5	43.1
35°	1657.6	1533.5	1191.7	865.6	580.9	275.3	103.9	48.0	35.1	33.7	33.7
37.5°	1834.2	1698.3	1280.0	858.3	499.9	175.6	59.4	31.3	30.6	35.1	37.2
40°	2012.9	1859.2	1375.3	838.5	397.4	105.7	33.0	27.8	29.2	34.4	36.5
42.5°	2168.3	1986.1	1467.4	795.4	279.9	56.7	29.2	26.1	27.5	29.9	30.2
45°	2293.8	2104.0	1517.1	734.9	165.8	35.8	27.8	25.0	24.0	25.0	25.4
47.5°	2428.7	2204.5	1557.5	645.6	89.7	35.1	27.5	23.3	21.2	20.5	21.2
50°	2529.2	2311.2	1571.7	513.5	47.3	33.7	26.1	21.2	19.1	20.5	20.9
52.5°	2626.2	2393.2	1565.1	358.4	40.0	30.9	24.0	19.8	18.1	22.2	23.3
55°	2755.5	2494.4	1517.5	174.5	38.9	29.2	21.6	17.4	17.4	17.4	17.4
57.5°	2873.7	2563.9	1422.2	79.6	37.5	26.8	19.5	15.6	13.2	14.6	14.9
60°	2996.1	2671.3	1259.9	50.8	35.5	23.3	16.7	13.6	11.5	11.5	11.8
62.5°	3117.4	2694.3	1034.3	44.8	33.7	21.2	14.6	11.8	9.7	9.7	10.4
65°	3217.5	2656.0	761.7	40.0	32.0	19.1	13.2	10.8	8.3	8.0	8.3
67.5°	3179.6	2469.4	494.7	35.8	29.2	17.4	11.5	9.7	7.6	6.3	6.6
70°	3031.5	2188.1	267.3	34.4	26.4	16.0	10.4	8.7	7.0	5.2	5.2
72.5°	2793.0	1843.9	100.5	32.0	24.3	13.9	9.4	8.7	6.6	4.2	3.8
75°	2402.3	1392.3	47.6	28.9	20.5	12.5	9.4	9.0	6.6	2.8	2.4
77.5°	1927.0	776.7	36.5	24.3	16.7	10.4	9.4	8.7	3.8	1.4	1.0
80°	1035.7	291.7	27.5	17.7	12.2	8.0	8.7	6.3	1.7	0.3	0.0
82.5°	410.9	72.0	19.1	8.0	5.2	3.5	4.9	2.4	0.3	0.0	0.0
85°	103.6	28.2	11.8	4.2	2.8	1.7	0.7	0.0	0.0	0.0	0.0
87.5°	11.8	8.0	3.5	2.1	1.0	0.3	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)