

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: P511313

Luminaire Tested: **PRV-P-PA1D-740-U-T2U-HSS**

Issue Date: 4/7/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511313  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/7/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-P-PA1D-740-U-T2U-HSS  
Description: PREVAIL AREA AND WALL LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

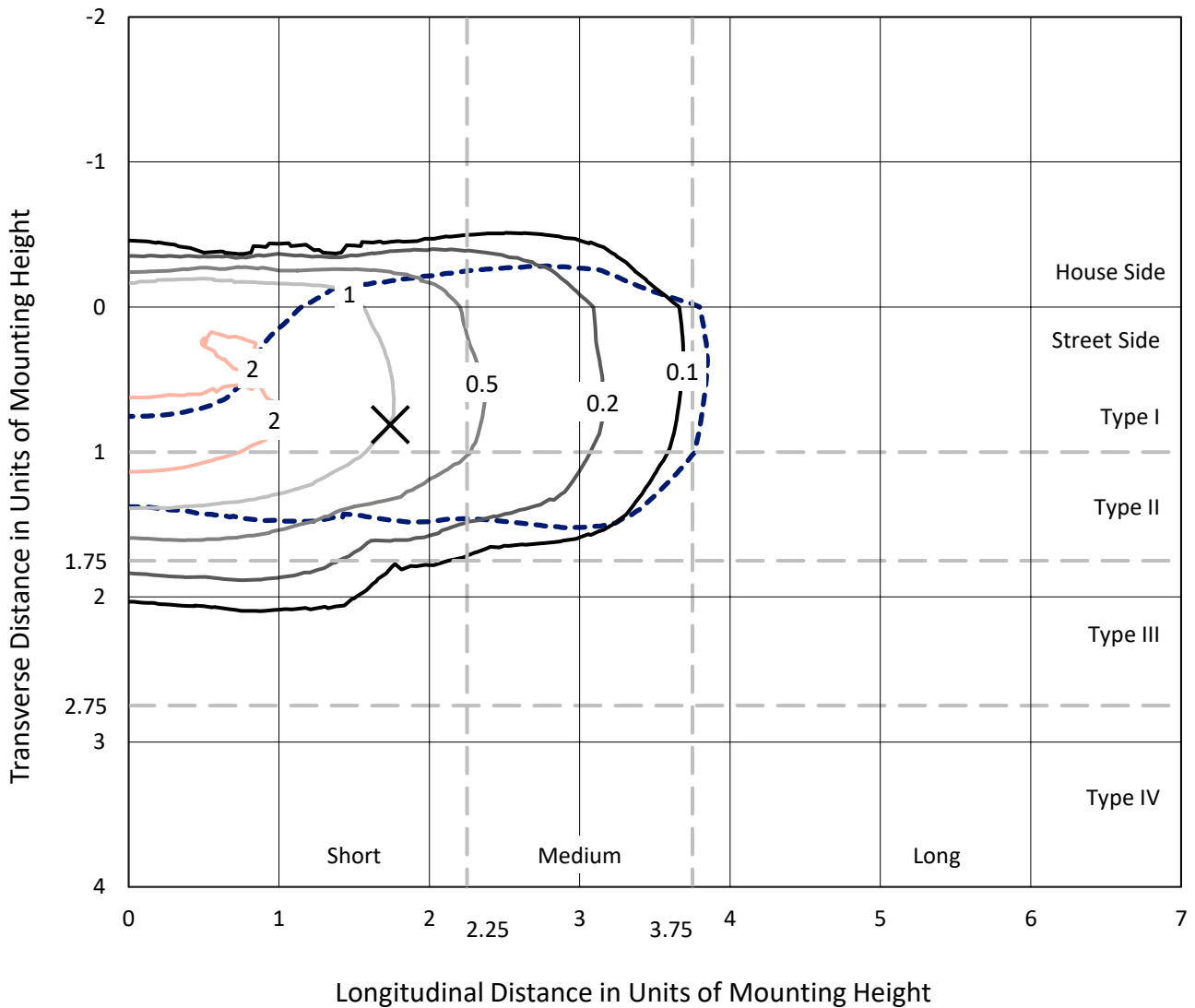
Lumens per Lamp: N/A  
Luminaire Lumens: 8160 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 93.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

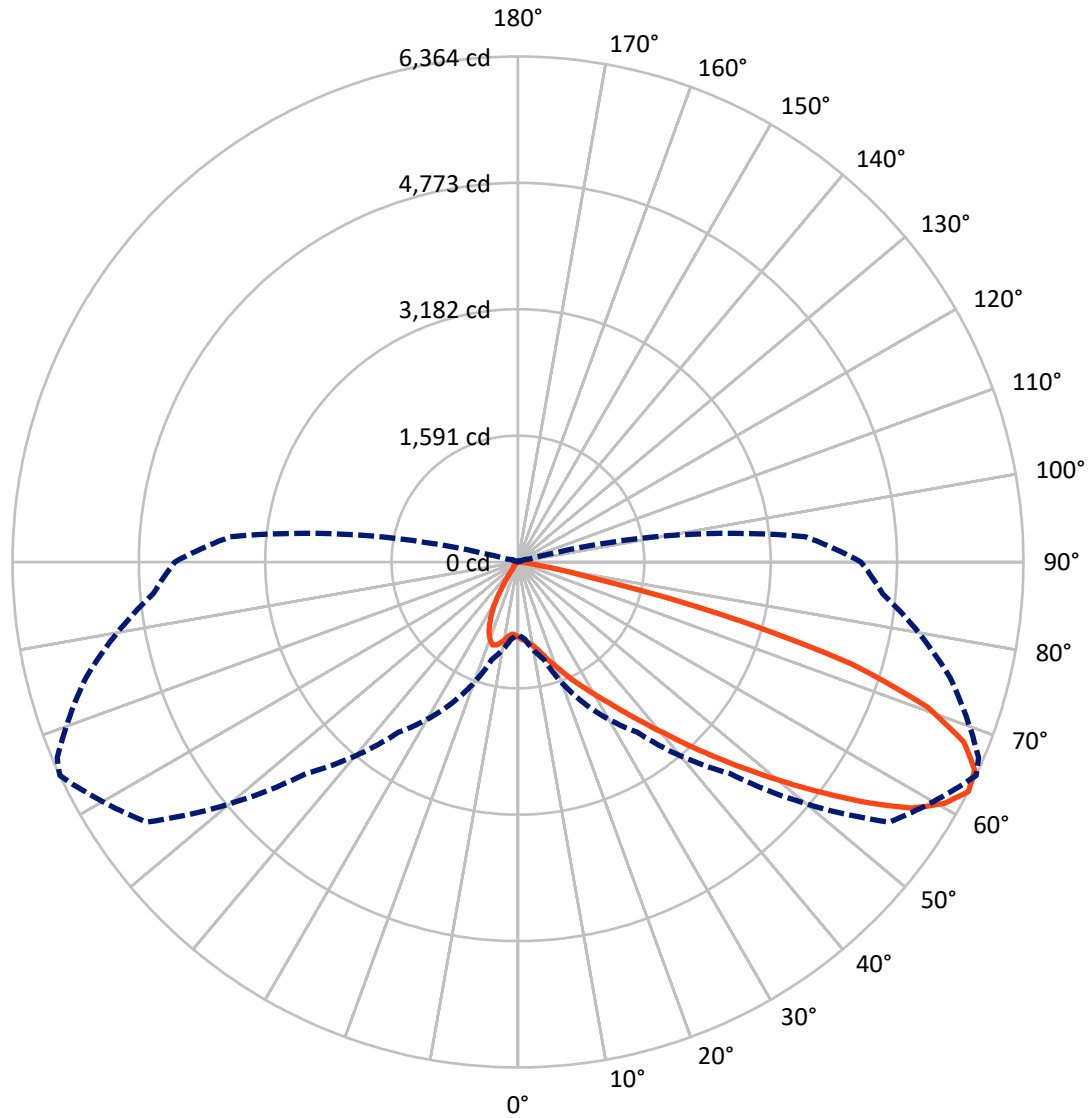
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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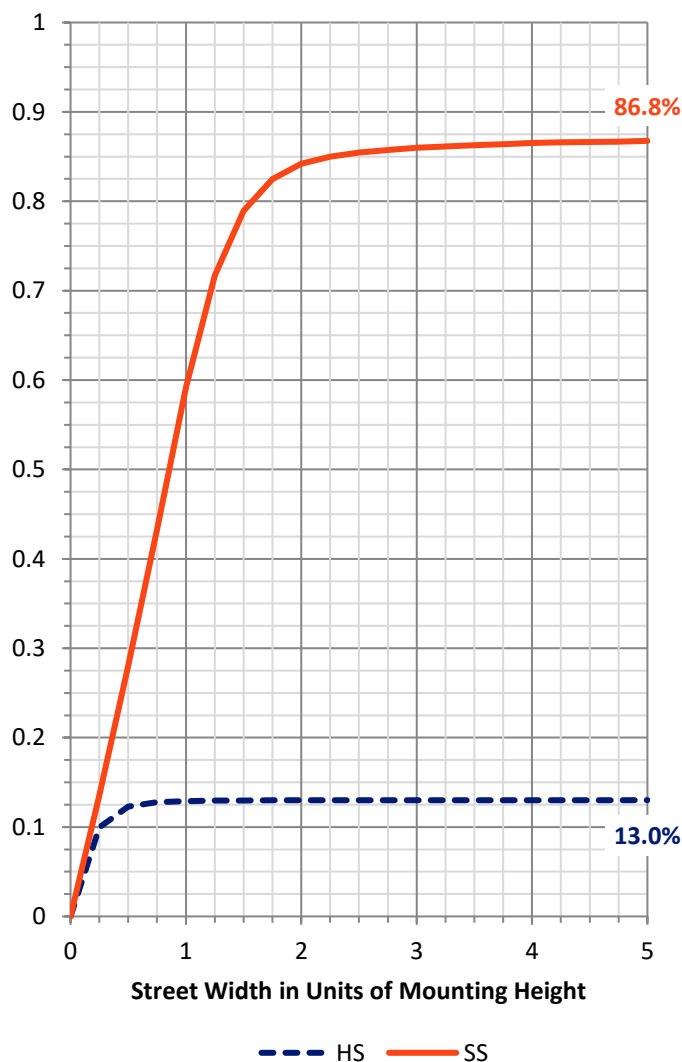
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1073.9	0.0	1073.9
	% Fixture	13.2	0.0	13.2
<b>Street Side</b>	Lumens	7086.1	0.0	7086.1
	% Fixture	86.8	0.0	86.8
<b>Total</b>	Lumens	8160.0	0.0	8160.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.2	1.1
10°-20°	267.8	3.3
20°-30°	477.5	5.9
30°-40°	871.3	10.7
40°-50°	1637.7	20.1
50°-60°	2171.5	26.6
60°-70°	1804.7	22.1
70°-80°	801.6	9.8
80°-90°	37.7	0.5
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°	8160.0	100.0
0°-180°	8160.0	100.0

**Coefficient of Utilization**

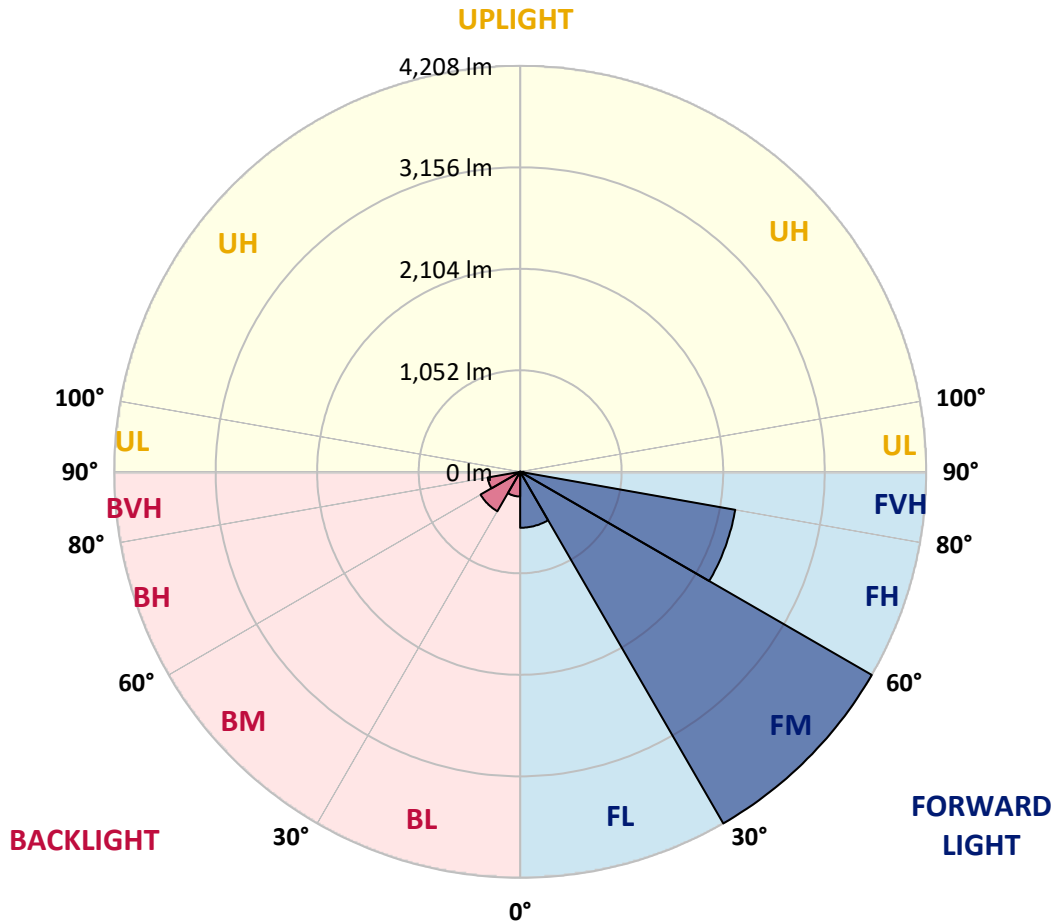


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	579.9	7.1			
FM (30°-60°)	4207.8	51.6			
FH (60°-80°)	2263.5	27.7			G2/5000
FVH (80°-90°)	34.8	0.4			G1/100
BL (0°-30°)	255.6	3.1	B1/500		
BM (30°-60°)	472.7	5.8	B1/1000		
BH (60°-80°)	342.7	4.2	B1/500		G1/500
BVH (80°-90°)	2.9	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-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	945.7	945.7	945.7	945.7	945.7	945.7	945.7	945.7	945.7	945.7	945.7
2.5°	983.4	988.4	983.4	990.9	985.9	983.4	980.9	975.9	973.3	963.3	958.3
5°	968.3	968.3	973.3	983.4	985.9	995.9	995.9	998.4	993.4	990.9	978.4
7.5°	955.8	958.3	963.3	975.9	983.4	1003.4	1016.0	1033.5	1033.5	1026.0	1021.0
10°	988.4	990.9	995.9	1011.0	1018.5	1046.1	1061.1	1076.2	1078.7	1081.2	1078.7
12.5°	1041.1	1041.1	1046.1	1058.6	1076.2	1106.3	1126.4	1138.9	1138.9	1146.4	1141.4
15°	1116.3	1113.8	1118.8	1126.4	1136.4	1174.0	1204.1	1224.2	1224.2	1219.2	1204.1
17.5°	1194.1	1199.1	1209.2	1209.2	1214.2	1249.3	1289.4	1319.5	1322.0	1309.5	1279.4
20°	1284.4	1289.4	1291.9	1304.5	1299.5	1332.1	1372.2	1419.9	1424.9	1409.8	1357.2
22.5°	1362.2	1372.2	1384.8	1397.3	1407.3	1439.9	1472.6	1537.8	1542.8	1525.2	1442.5
25°	1465.0	1457.5	1480.1	1490.1	1510.2	1545.3	1588.0	1668.2	1673.2	1643.1	1542.8
27.5°	1562.9	1562.9	1580.4	1610.5	1620.6	1665.7	1710.9	1798.7	1813.7	1778.6	1643.1
30°	1736.0	1748.5	1741.0	1748.5	1738.5	1791.1	1861.4	1954.2	1961.7	1914.1	1761.0
32.5°	2129.8	2124.8	2057.1	1949.2	1904.0	1954.2	2034.5	2119.8	2132.3	2097.2	1879.0
35°	2636.6	2659.1	2541.2	2325.5	2142.4	2142.4	2207.6	2328.0	2335.5	2295.4	2047.0
37.5°	3306.4	3291.3	3118.2	2839.8	2501.1	2393.2	2455.9	2563.8	2576.3	2531.2	2245.2
40°	3762.9	3803.1	3712.7	3436.8	3012.8	2759.5	2726.9	2832.2	2847.3	2804.6	2463.5
42.5°	4121.7	4134.2	4114.1	3981.2	3624.9	3251.2	3063.0	3155.8	3155.8	3085.6	2719.3
45°	4377.5	4392.6	4387.6	4344.9	4166.8	3853.2	3507.0	3514.6	3529.6	3419.2	2977.7
47.5°	4462.8	4462.8	4538.1	4618.4	4623.4	4515.5	4069.0	3908.4	3888.4	3773.0	3253.7
50°	4232.0	4239.6	4425.2	4723.7	4957.0	5110.0	4698.6	4352.4	4304.8	4161.8	3564.7
52.5°	3594.8	3587.3	3908.4	4510.5	5140.1	5549.1	5212.9	4839.1	4773.9	4487.9	3828.1
55°	2889.9	2942.6	3273.7	3863.3	4959.5	5767.3	5624.3	5350.9	5215.4	4854.2	4076.5
57.5°	2175.0	2260.3	2724.4	3223.6	4257.1	5611.8	5867.6	5847.6	5717.1	5167.7	4294.7
60°	1397.3	1475.1	1961.7	2578.9	3439.3	4977.1	5910.3	6168.7	6103.5	5448.7	4508.0
62.5°	913.1	973.3	1274.4	1959.2	2614.0	3762.9	5709.6	6364.4	6301.6	5634.3	4610.8
65°	536.8	559.4	755.1	1342.1	1919.1	2450.9	5170.3	6319.2	6359.3	5797.4	4676.1
67.5°	386.3	388.8	479.1	745.1	1354.7	1414.9	3905.9	6058.3	6146.1	5852.6	4653.5
70°	328.6	338.7	401.4	491.7	948.3	742.5	2262.8	5468.8	5684.5	5777.3	4595.8
72.5°	253.4	268.4	331.1	421.4	679.8	501.7	857.9	4400.1	4693.6	5212.9	4377.5
75°	160.6	175.6	245.8	336.2	481.7	401.4	348.7	2646.6	2957.7	3609.9	3504.5
77.5°	95.3	97.8	150.5	240.8	426.5	298.5	203.2	918.2	1214.2	1758.5	1798.7
80°	47.7	52.7	82.8	153.0	263.4	220.8	122.9	278.5	348.7	607.1	421.4
82.5°	27.6	30.1	45.2	85.3	138.0	130.4	67.7	122.9	138.0	165.6	72.7
85°	2.5	5.0	22.6	35.1	47.7	30.1	27.6	50.2	52.7	75.3	25.1
87.5°	0.0	0.0	2.5	2.5	5.0	5.0	7.5	10.0	10.0	10.0	7.5
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°	945.7	945.7	945.7	945.7	945.7	945.7	945.7	945.7	945.7	945.7	945.7
2.5°	948.3	948.3	933.2	920.7	913.1	903.1	890.6	885.5	878.0	875.5	878.0
5°	973.3	960.8	933.2	910.6	890.6	873.0	855.4	847.9	840.4	840.4	840.4
7.5°	1013.5	998.4	965.8	938.2	913.1	898.1	870.5	842.9	817.8	810.3	805.3
10°	1071.2	1053.6	1018.5	988.4	958.3	903.1	825.3	747.6	692.4	664.8	667.3
12.5°	1128.9	1108.8	1076.2	1041.1	970.8	837.9	694.9	566.9	484.2	441.5	429.0
15°	1194.1	1171.5	1133.9	1081.2	925.7	709.9	506.7	336.2	245.8	215.7	205.7
17.5°	1266.8	1234.2	1196.6	1091.2	825.3	521.8	281.0	175.6	148.0	140.5	138.0
20°	1332.1	1304.5	1251.8	1046.1	679.8	321.1	158.0	130.4	120.4	115.4	115.4
22.5°	1407.3	1367.2	1304.5	968.3	501.7	180.6	122.9	107.9	97.8	95.3	92.8
25°	1485.1	1434.9	1342.1	863.0	318.6	127.9	102.9	90.3	80.3	75.3	77.8
27.5°	1575.4	1497.6	1357.2	725.0	183.1	107.9	85.3	72.7	65.2	62.7	62.7
30°	1645.7	1575.4	1339.6	569.5	125.4	92.8	70.2	57.7	52.7	50.2	50.2
32.5°	1748.5	1653.2	1291.9	373.8	102.9	77.8	57.7	47.7	42.6	42.6	42.6
35°	1889.0	1756.0	1214.2	223.3	87.8	65.2	47.7	40.1	37.6	37.6	37.6
37.5°	2069.6	1914.1	1143.9	130.4	72.7	52.7	40.1	35.1	32.6	32.6	32.6
40°	2265.3	2092.2	1061.1	92.8	60.2	45.2	35.1	30.1	27.6	27.6	30.1
42.5°	2511.1	2295.4	945.7	80.3	52.7	37.6	30.1	25.1	22.6	25.1	25.1
45°	2736.9	2511.1	810.3	67.7	45.2	32.6	25.1	20.1	20.1	22.6	22.6
47.5°	3017.9	2726.9	637.2	60.2	40.1	27.6	20.1	17.6	17.6	20.1	20.1
50°	3273.7	2945.1	469.1	52.7	35.1	22.6	17.6	15.1	15.1	15.1	17.6
52.5°	3532.1	3163.4	358.7	45.2	30.1	20.1	15.1	12.5	10.0	12.5	12.5
55°	3773.0	3336.5	273.4	40.1	25.1	17.6	12.5	10.0	7.5	10.0	10.0
57.5°	3998.7	3469.4	223.3	35.1	22.6	15.1	10.0	7.5	7.5	7.5	7.5
60°	4169.3	3572.3	170.6	30.1	20.1	12.5	7.5	5.0	5.0	5.0	5.0
62.5°	4319.8	3635.0	135.5	25.1	17.6	10.0	5.0	5.0	2.5	2.5	2.5
65°	4412.7	3645.0	107.9	22.6	15.1	10.0	5.0	2.5	0.0	0.0	0.0
67.5°	4450.3	3604.9	87.8	17.6	12.5	7.5	5.0	2.5	0.0	0.0	0.0
70°	4435.2	3471.9	67.7	15.1	10.0	5.0	5.0	2.5	0.0	0.0	0.0
72.5°	4239.6	3078.1	50.2	12.5	7.5	5.0	2.5	2.5	0.0	0.0	0.0
75°	3316.4	1658.2	35.1	10.0	5.0	5.0	2.5	2.5	0.0	0.0	0.0
77.5°	1756.0	589.5	22.6	7.5	5.0	2.5	2.5	2.5	0.0	0.0	0.0
80°	316.1	122.9	10.0	5.0	2.5	2.5	2.5	2.5	0.0	0.0	0.0
82.5°	50.2	12.5	5.0	5.0	2.5	2.5	2.5	2.5	0.0	0.0	0.0
85°	17.6	7.5	5.0	5.0	2.5	2.5	2.5	2.5	0.0	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	2.5	2.5	2.5	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)