

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: P511312

Luminaire Tested: **PRV-P-PA1D-740-U-T2R**

Issue Date: 4/7/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P511312  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-171-1)  
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-T2R  
Description: PREVAIL AREA AND WALL LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11300 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1.04' x L: 0.58' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

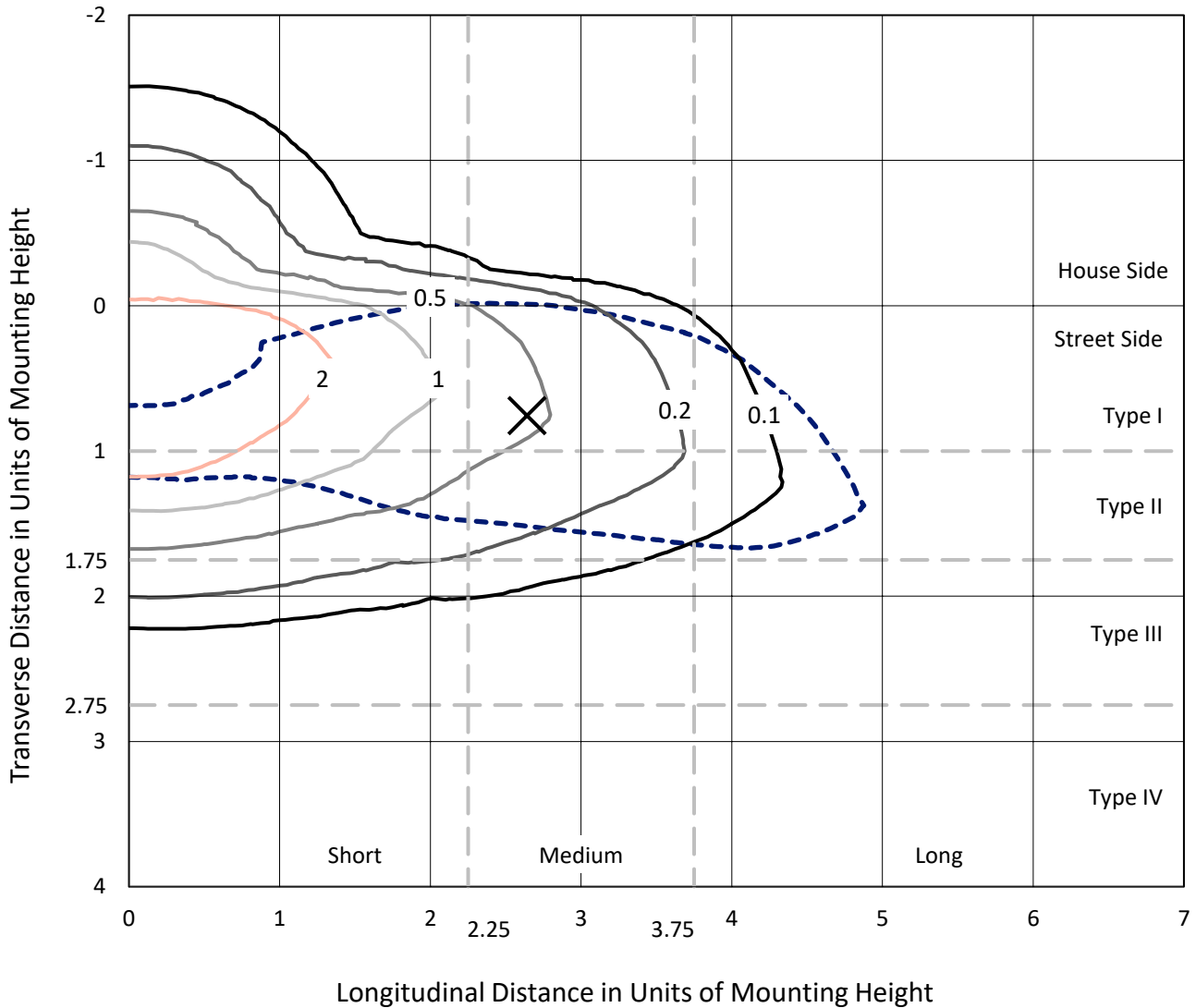
Input Watts (W): 93.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

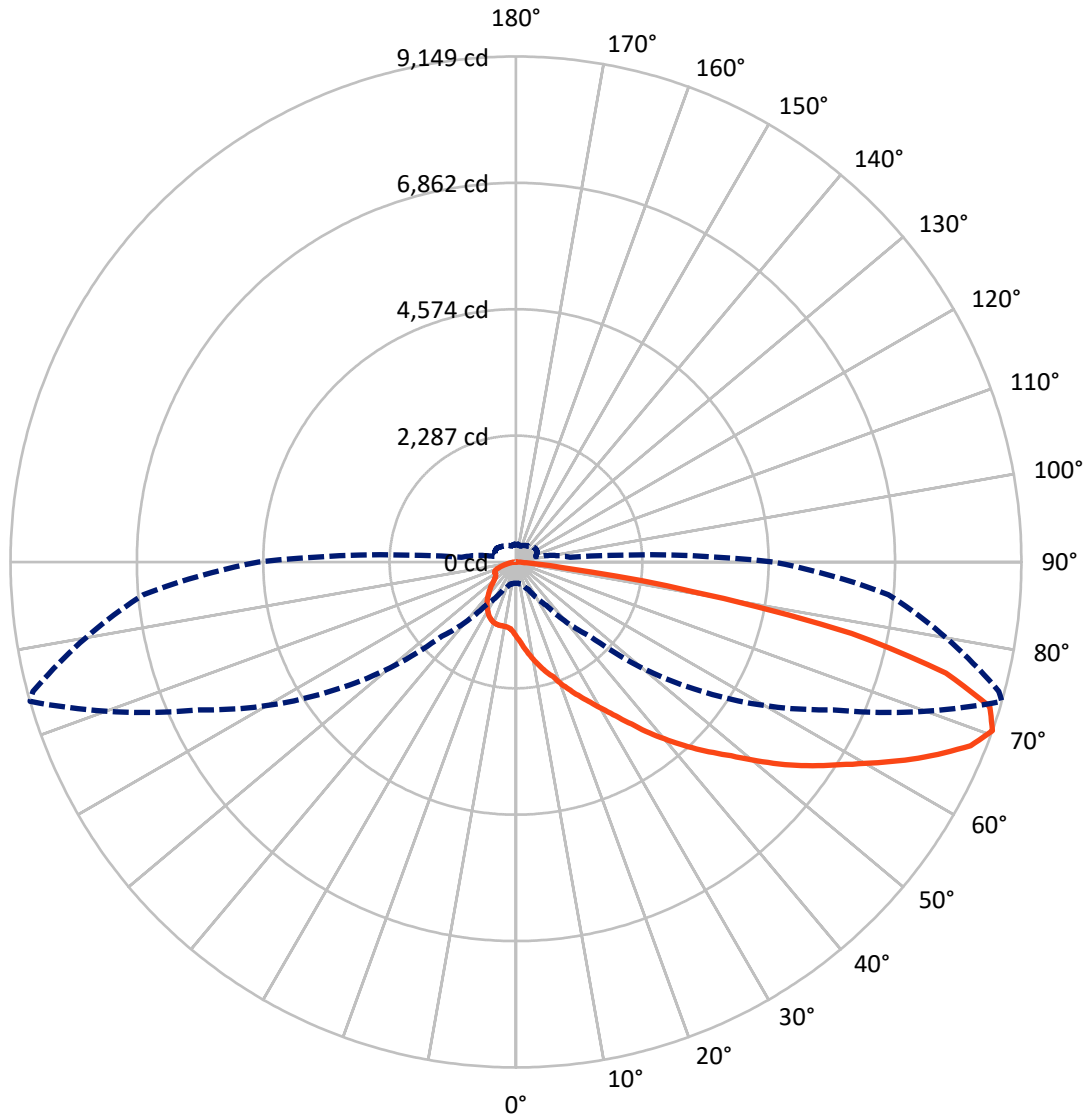
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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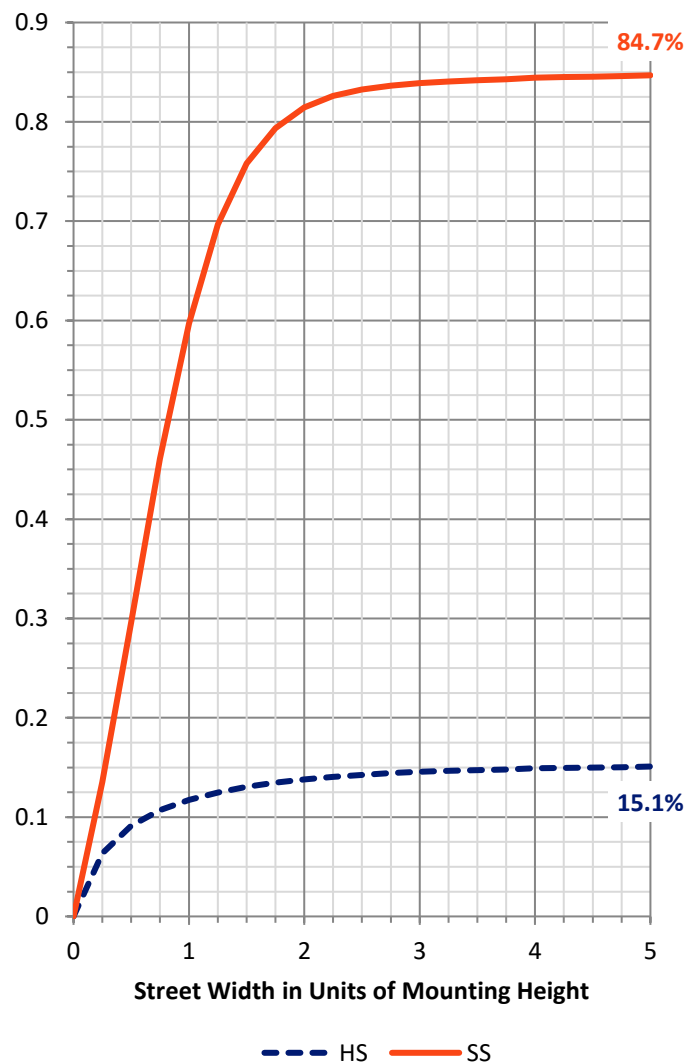
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1719.0	0.0	1719.0
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	9581.0	0.0	9581.0
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	11300.0	0.0	11300.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.6	1.3
10°-20°	473.0	4.2
20°-30°	879.8	7.8
30°-40°	1483.7	13.1
40°-50°	2103.4	18.6
50°-60°	2417.6	21.4
60°-70°	2255.8	20.0
70°-80°	1398.8	12.4
80°-90°	146.2	1.3
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°	11300.0	100.0
0°-180°	11300.0	100.0



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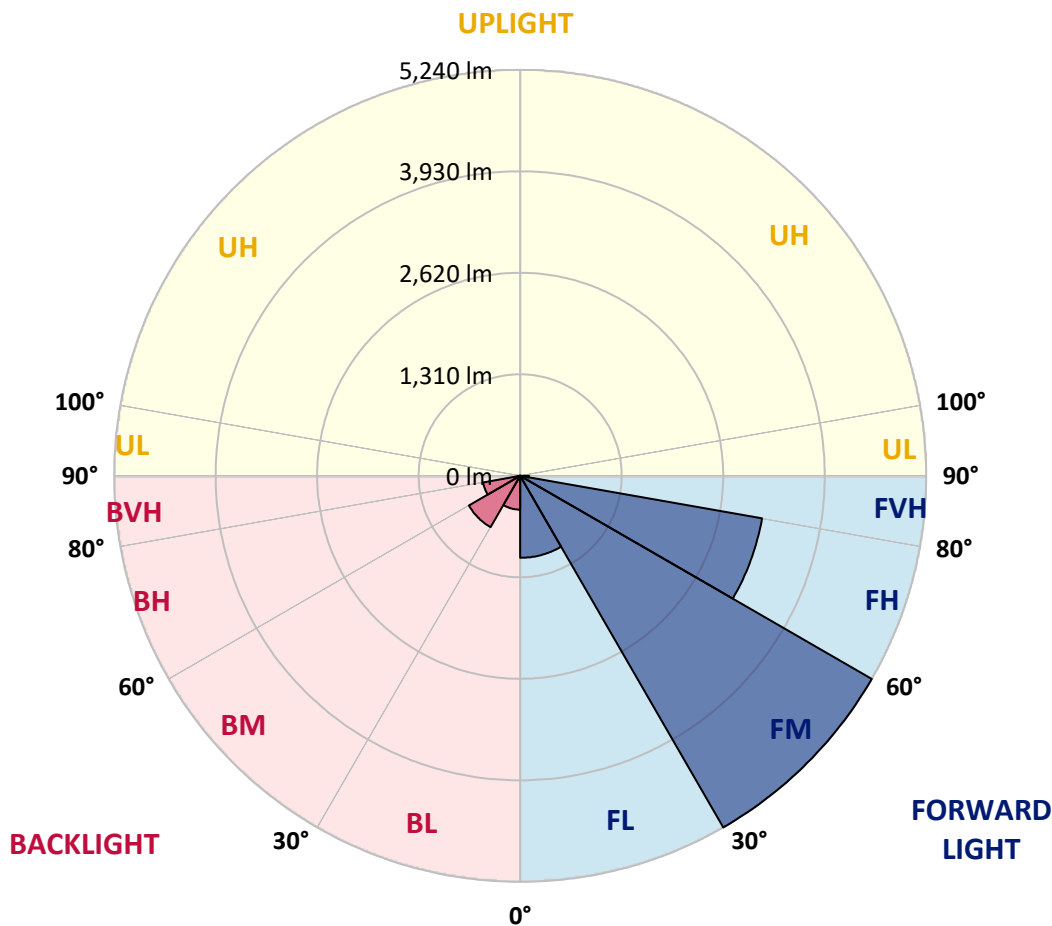
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1058.2	9.4			
FM (30°-60°)	5240.2	46.4			
FH (60°-80°)	3169.3	28.0			G2/5000
FVH (80°-90°)	113.3	1.0			G2/225
BL (0°-30°)	436.3	3.9	B1/500		
BM (30°-60°)	764.5	6.8	B1/1000		
BH (60°-80°)	485.3	4.3	B1/500		G1/500
BVH (80°-90°)	33.0	0.3			G1/100
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6
2.5°	1690.8	1700.8	1693.3	1678.2	1650.7	1593.0	1555.3	1512.7	1442.4	1442.4	1389.8
5°	1924.1	1924.1	1911.5	1896.5	1871.4	1811.2	1753.5	1665.7	1562.9	1552.8	1437.4
7.5°	2032.0	2032.0	2032.0	2029.4	2019.4	1971.8	1906.5	1798.7	1678.2	1668.2	1485.1
10°	2124.8	2117.3	2119.8	2124.8	2114.7	2109.7	2054.5	1951.7	1811.2	1796.2	1575.4
12.5°	2220.1	2205.1	2210.1	2220.1	2227.6	2210.1	2169.9	2087.1	1931.6	1921.6	1653.2
15°	2285.3	2285.3	2292.9	2312.9	2323.0	2325.5	2295.4	2232.6	2069.6	2044.5	1748.5
17.5°	2333.0	2330.5	2345.5	2380.7	2418.3	2433.3	2443.4	2373.1	2182.5	2172.4	1838.8
20°	2390.7	2390.7	2410.8	2460.9	2508.6	2551.2	2578.8	2548.7	2363.1	2328.0	1956.7
22.5°	2556.3	2556.3	2553.7	2581.3	2629.0	2661.6	2706.8	2704.3	2521.1	2478.5	2067.1
25°	2955.1	2972.7	2894.9	2804.6	2802.1	2814.6	2824.7	2902.4	2699.2	2666.6	2185.0
27.5°	3529.6	3547.1	3429.2	3286.3	3088.1	2995.3	2955.1	3088.1	2877.4	2847.3	2295.4
30°	4068.9	4036.3	3973.6	3818.1	3539.6	3281.2	3125.7	3271.2	3085.6	3022.9	2385.7
32.5°	4435.2	4412.6	4357.4	4211.9	3983.6	3672.6	3341.4	3444.3	3323.9	3266.2	2528.7
35°	4638.4	4630.9	4573.2	4502.9	4377.5	4124.1	3645.0	3655.0	3604.8	3554.7	2691.7
37.5°	4809.0	4791.4	4731.2	4663.5	4615.8	4485.4	4046.4	3853.2	3928.5	3833.1	2864.8
40°	4924.4	4909.3	4864.2	4793.9	4786.4	4771.3	4462.8	4114.1	4242.0	4149.2	3065.5
42.5°	4979.6	4964.5	4954.5	4889.2	4904.3	4972.0	4859.1	4422.6	4570.7	4462.8	3291.3
45°	5009.7	4997.1	4989.6	4939.4	4954.5	5094.9	5177.7	4776.4	4899.3	4801.4	3524.6
47.5°	4946.9	4934.4	4979.6	4959.5	4997.1	5175.2	5380.9	5145.1	5240.4	5115.0	3793.0
50°	4645.9	4686.0	4814.0	4891.8	4972.0	5207.8	5574.1	5521.4	5654.4	5501.3	4094.0
52.5°	3825.6	3893.3	4334.8	4661.0	4891.8	5210.3	5702.0	5892.7	6095.9	5990.5	4397.6
55°	3030.4	3108.1	3479.4	4119.1	4661.0	5162.7	5759.7	6128.5	6512.3	6361.8	4713.6
57.5°	2571.3	2616.5	2762.0	3351.5	4171.8	5019.7	5877.6	6309.1	6918.7	6815.8	5037.3
60°	2167.4	2174.9	2328.0	2699.2	3464.4	4673.5	5947.9	6447.1	7385.3	7249.8	5396.0
62.5°	1648.1	1705.8	1861.4	2154.9	2769.5	4094.0	5973.0	6587.6	7902.1	7794.2	5814.9
65°	1031.0	1068.7	1249.3	1630.6	2187.5	3328.9	5687.0	6728.0	8393.7	8311.0	6233.8
67.5°	554.4	584.5	714.9	995.9	1570.4	2601.4	4999.6	6685.4	8872.9	8807.7	6617.7
70°	383.8	386.3	416.4	559.4	953.3	1899.0	4063.9	6329.2	9148.8	9048.5	6768.2
72.5°	318.6	323.6	338.7	371.3	511.8	1169.0	2945.1	5641.8	8968.2	8830.2	6449.6
75°	270.9	273.4	288.5	306.0	346.2	617.1	1873.9	4650.9	8040.0	7902.1	5438.6
77.5°	223.3	228.3	240.8	263.4	288.5	353.7	975.8	3617.4	6208.8	6040.7	3579.8
80°	158.0	160.5	175.6	200.7	235.8	248.4	376.3	2167.4	3231.1	2967.7	1364.7
82.5°	92.8	97.8	117.9	138.0	173.1	148.0	175.6	822.8	908.1	815.3	283.5
85°	22.6	27.6	40.1	55.2	70.2	50.2	77.8	160.5	188.1	173.1	52.7
87.5°	2.5	2.5	2.5	2.5	5.0	7.5	12.5	12.5	12.5	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°	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6	1349.6
2.5°	1354.6	1329.6	1276.9	1229.2	1194.1	1164.0	1151.4	1123.8	1118.8	1108.8	1111.3
5°	1367.2	1312.0	1219.2	1151.4	1116.3	1088.7	1073.7	1071.2	1073.7	1071.2	1073.7
7.5°	1397.3	1317.0	1199.1	1123.8	1098.8	1086.2	1081.2	1081.2	1088.7	1086.2	1083.7
10°	1439.9	1337.1	1191.6	1121.3	1106.3	1101.3	1096.3	1098.8	1101.3	1106.3	1088.7
12.5°	1500.1	1362.2	1186.6	1123.8	1106.3	1098.8	1091.2	1091.2	1096.3	1086.2	1091.2
15°	1547.8	1394.8	1191.6	1116.3	1096.3	1083.7	1071.2	1066.2	1061.1	1058.6	1056.1
17.5°	1615.5	1429.9	1186.6	1108.8	1076.2	1051.1	1026.0	1016.0	1011.0	1005.9	1003.4
20°	1693.3	1452.5	1179.0	1088.7	1041.1	1003.4	975.8	955.8	938.2	935.7	928.2
22.5°	1758.5	1490.1	1159.0	1056.1	995.9	948.2	908.1	888.0	865.5	852.9	845.4
25°	1853.8	1530.2	1128.9	1008.5	935.7	890.5	835.4	810.3	785.2	767.6	767.6
27.5°	1916.6	1542.8	1096.3	955.8	875.5	805.3	755.1	722.5	699.9	687.4	687.4
30°	2004.4	1572.9	1043.6	903.1	805.3	742.5	679.8	649.7	629.7	609.6	602.1
32.5°	2094.7	1593.0	998.4	837.9	737.5	662.3	614.6	597.0	564.4	539.3	534.3
35°	2215.1	1623.1	940.7	772.6	664.8	607.1	587.0	546.9	501.7	476.6	471.6
37.5°	2360.6	1655.7	875.5	699.9	604.6	572.0	561.9	496.7	461.6	451.5	451.5
40°	2526.2	1680.8	805.3	632.2	541.9	551.9	526.8	466.6	444.0	439.0	436.5
42.5°	2701.8	1703.3	740.0	561.9	504.2	521.8	491.7	456.6	436.5	431.5	426.5
45°	2892.4	1708.4	674.8	509.2	471.6	479.1	466.6	444.0	426.5	424.0	421.4
47.5°	3100.6	1713.4	604.6	461.6	451.5	439.0	446.5	426.5	416.4	413.9	411.4
50°	3356.5	1700.8	539.3	431.5	436.5	413.9	424.0	411.4	408.9	403.9	398.9
52.5°	3582.3	1660.7	489.2	416.4	426.5	408.9	406.4	401.4	401.4	391.3	386.3
55°	3798.0	1605.5	456.6	408.9	413.9	401.4	398.9	393.8	391.3	378.8	376.3
57.5°	4001.2	1525.2	436.5	411.4	408.9	396.4	396.4	388.8	376.3	371.3	366.3
60°	4274.6	1457.5	429.0	416.4	403.9	393.8	393.8	381.3	368.8	361.2	358.7
62.5°	4530.5	1384.7	426.5	426.5	406.4	391.3	388.8	376.3	358.7	356.2	351.2
65°	4791.4	1294.4	424.0	439.0	411.4	391.3	383.8	366.3	346.2	346.2	341.2
67.5°	4846.6	1181.5	406.4	441.5	416.4	388.8	373.8	351.2	328.6	333.6	323.6
70°	4663.5	988.4	368.8	424.0	429.0	388.8	356.2	328.6	301.0	323.6	303.5
72.5°	4111.6	780.2	308.6	371.3	418.9	388.8	336.2	298.5	263.4	260.9	243.3
75°	3246.1	524.3	238.3	291.0	381.3	388.8	306.0	260.9	223.3	203.2	203.2
77.5°	1964.2	346.2	183.1	205.7	306.0	358.7	268.4	203.2	168.1	155.5	150.5
80°	647.2	193.2	135.5	143.0	190.7	260.9	228.3	160.5	122.9	107.9	95.3
82.5°	175.6	102.9	87.8	80.3	95.3	193.2	180.6	105.4	75.3	62.7	47.7
85°	42.6	42.6	40.1	35.1	30.1	57.7	70.2	25.1	15.1	7.5	7.5
87.5°	7.5	7.5	7.5	7.5	5.0	2.5	2.5	0.0	2.5	2.5	2.5
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)