

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: P381247

Luminaire Tested: **PRV-PA2B-730-U-T3-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA2B-730-U-T3-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13222 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3

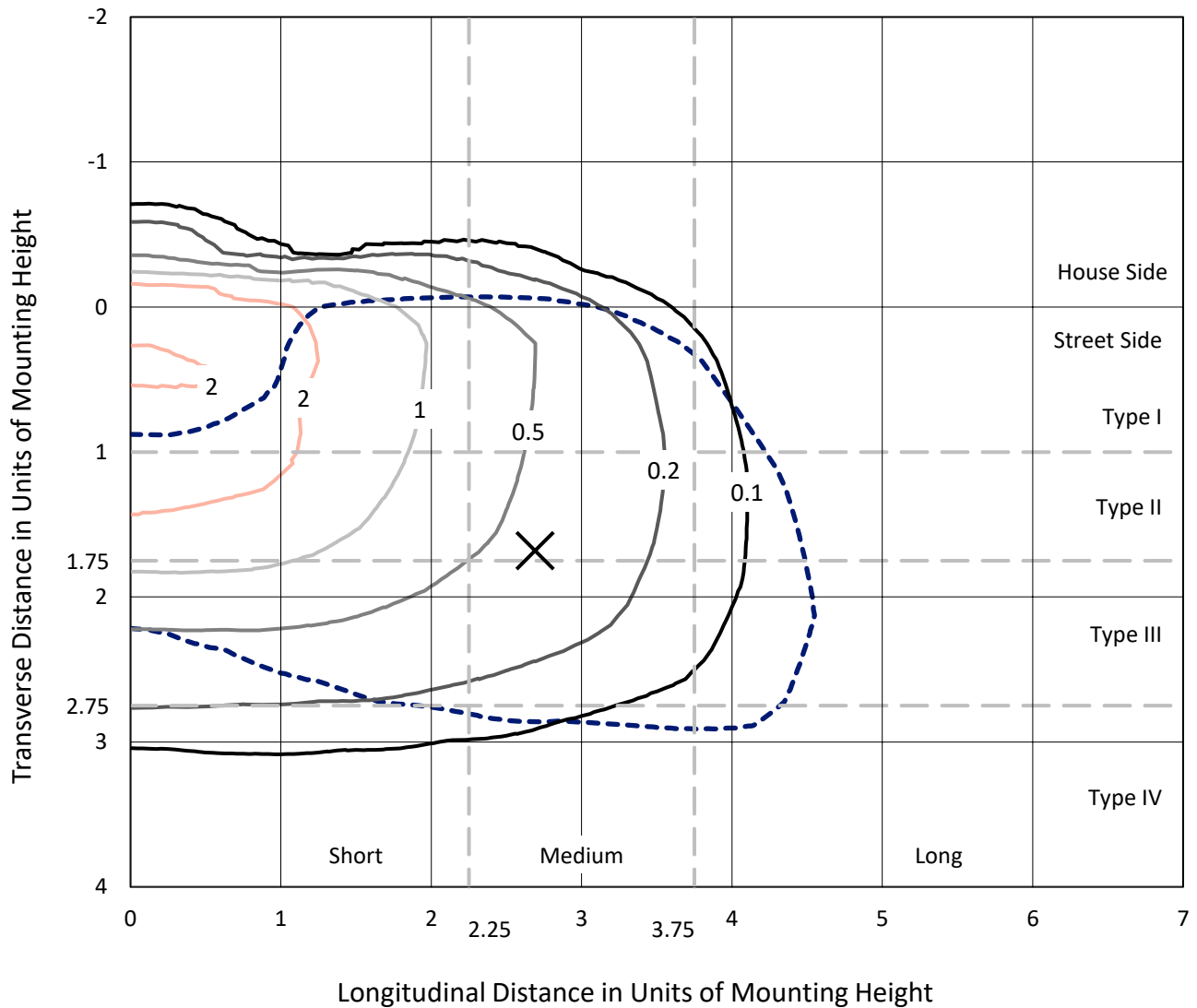
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

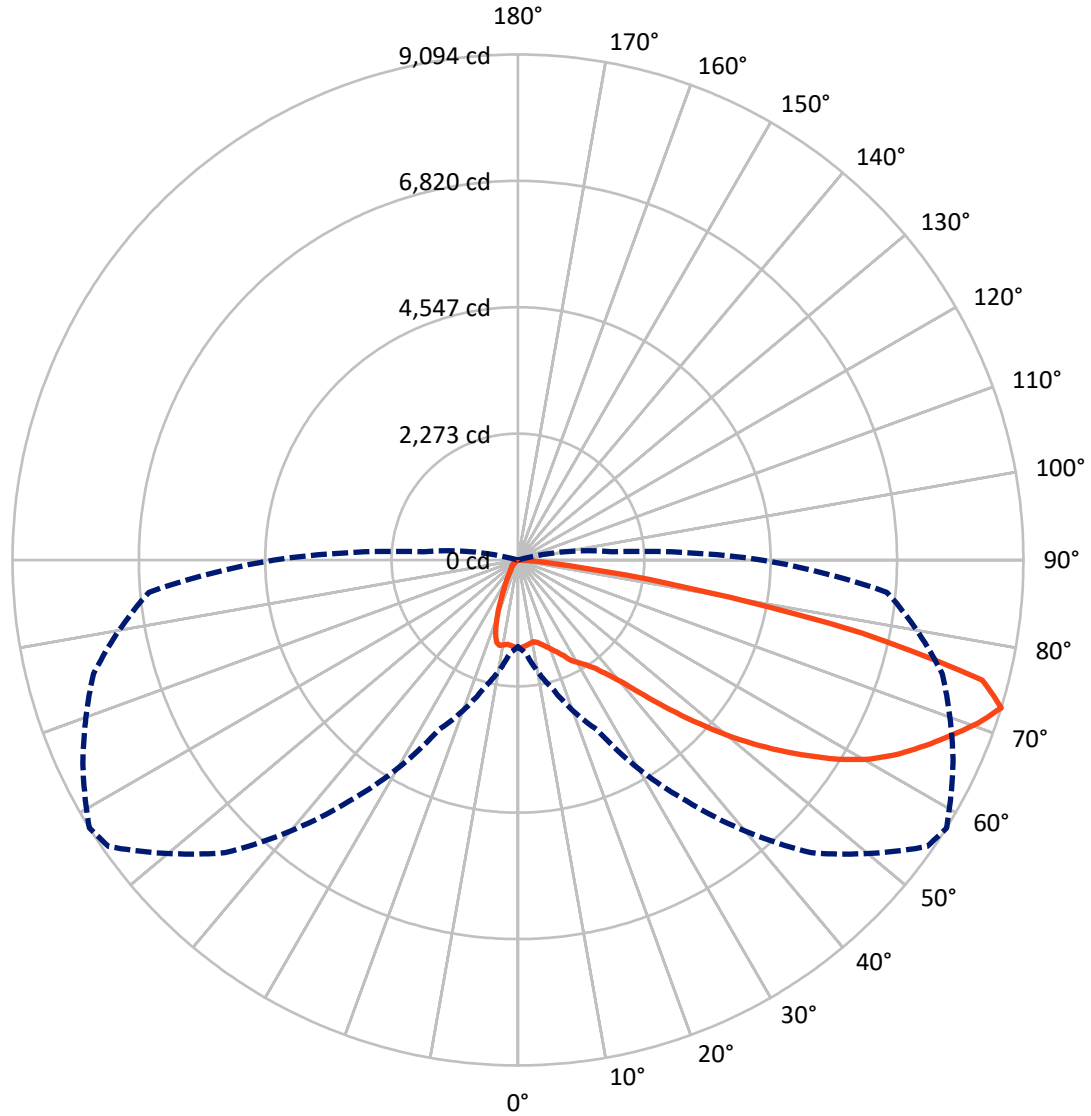
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical



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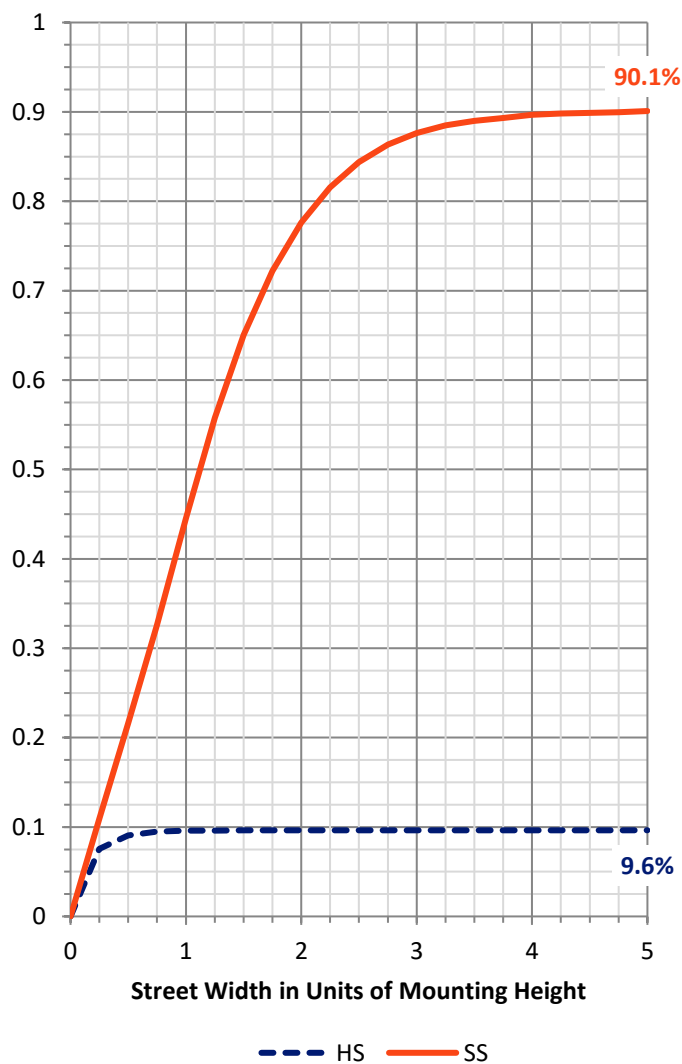
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1285.8	0.0	1285.8
	% Fixture	9.7	0.0	9.7
<b>Street Side</b>	Lumens	11936.3	0.0	11936.3
	% Fixture	90.3	0.0	90.3
<b>Total</b>	Lumens	13222.0	0.0	13222.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	1.1
10°-20°	379.2	2.9
20°-30°	595.8	4.5
30°-40°	1027.4	7.8
40°-50°	1954.8	14.8
50°-60°	3095.8	23.4
60°-70°	3612.4	27.3
70°-80°	2262.5	17.1
80°-90°	148.5	1.1
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°	13222.0	100.0
0°-180°	13222.0	100.0

**Coefficient of Utilization**



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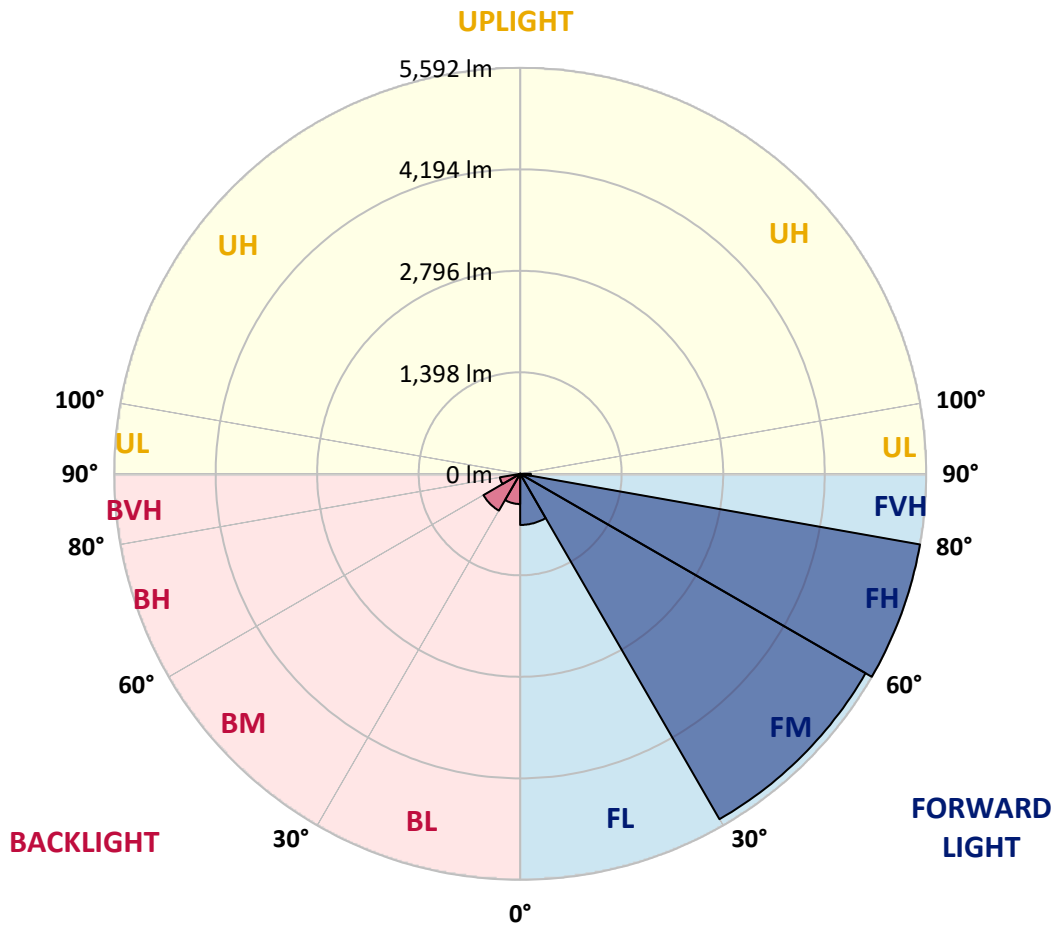
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	704.2	5.3			
FM (30°-60°)	5493.0	41.5			
FH (60°-80°)	5592.0	42.3			G3/7500
FVH (80°-90°)	147.1	1.1			G2/225
BL (0°-30°)	416.4	3.1	B1/500		
BM (30°-60°)	585.0	4.4	B1/1000		
BH (60°-80°)	282.9	2.1	B1/500		G1/500
BVH (80°-90°)	1.4	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°	45°	55°	58°	65°	75°	85°
0°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6
2.5°	1579.5	1572.4	1570.0	1567.6	1570.0	1572.4	1565.3	1572.4	1567.6	1570.0	1574.7
5°	1522.7	1515.6	1513.3	1515.6	1522.7	1534.5	1539.3	1546.4	1546.4	1553.5	1555.8
7.5°	1458.9	1454.1	1451.8	1456.5	1470.7	1496.7	1510.9	1520.4	1529.8	1544.0	1558.2
10°	1423.4	1421.0	1418.7	1425.8	1440.0	1463.6	1482.5	1496.7	1532.2	1572.4	1598.4
12.5°	1399.8	1399.8	1404.5	1418.7	1437.6	1456.5	1501.4	1520.4	1574.7	1636.2	1671.7
15°	1380.9	1380.9	1387.9	1414.0	1440.0	1484.9	1551.1	1572.4	1636.2	1711.9	1759.2
17.5°	1366.7	1371.4	1376.1	1402.1	1451.8	1527.4	1605.5	1636.2	1714.2	1797.0	1849.0
20°	1369.0	1373.8	1376.1	1402.1	1473.1	1577.1	1676.4	1711.9	1801.7	1889.2	1941.2
22.5°	1383.2	1390.3	1392.7	1428.1	1510.9	1629.1	1756.8	1797.0	1893.9	1986.2	2026.4
25°	1442.3	1447.1	1432.9	1463.6	1565.3	1709.5	1860.8	1903.4	2000.3	2085.5	2118.6
27.5°	1643.3	1648.0	1570.0	1534.5	1607.8	1775.7	1988.5	2047.6	2168.2	2225.0	2229.7
30°	2078.4	2083.1	1929.4	1761.5	1709.5	1832.5	2059.5	2142.2	2298.3	2362.1	2333.7
32.5°	2638.7	2634.0	2423.6	2175.3	1950.7	1931.8	2161.1	2248.6	2418.9	2480.3	2459.0
35°	3201.5	3208.6	3028.9	2655.3	2333.7	2118.6	2291.2	2392.8	2598.6	2686.0	2648.2
37.5°	3586.9	3634.2	3556.2	3151.8	2804.3	2463.8	2501.6	2610.4	2868.1	2986.3	2905.9
40°	4130.7	4118.9	3929.7	3631.8	3324.4	2974.5	2842.1	2894.1	3189.7	3348.1	3222.8
42.5°	4861.4	4837.7	4516.1	4225.3	3882.5	3596.4	3326.8	3317.4	3558.5	3743.0	3560.9
45°	5523.4	5487.9	5268.0	4986.7	4610.7	4282.1	3917.9	3835.2	4003.0	4159.1	3946.3
47.5°	6050.7	5991.6	5835.5	5686.6	5594.3	5083.6	4537.4	4412.1	4497.2	4613.1	4312.8
50°	6674.9	6511.8	6284.8	6194.9	6386.4	5991.6	5133.3	5012.7	5007.9	5074.2	4691.1
52.5°	6958.6	6663.1	6535.4	6611.1	6949.2	6835.7	5776.4	5603.8	5535.2	5542.3	5043.4
55°	6615.8	6582.7	6651.3	6887.7	7329.9	7263.7	6393.5	6180.7	6079.1	5951.4	5381.5
57.5°	6225.6	6327.3	6599.2	7050.8	7812.2	7710.5	7001.2	6760.0	6573.2	6280.0	5757.5
60°	5866.3	5970.3	6419.5	7088.7	8077.0	8140.9	7507.2	7277.8	7001.2	6615.8	6171.3
62.5°	5320.1	5400.4	6031.8	7034.3	7961.2	8391.5	7859.5	7686.9	7429.2	6935.0	6646.5
65°	4705.3	4757.3	5381.5	6599.2	7734.2	8363.1	8150.3	8053.4	7802.8	7268.4	7117.1
67.5°	4031.4	4092.9	4613.1	5816.6	7289.7	8230.7	8424.6	8415.1	8129.0	7637.2	7457.5
70°	3255.9	3260.6	3690.9	4823.5	6514.1	7965.9	8765.1	8786.4	8441.2	7913.9	7471.7
72.5°	1558.2	1685.9	2392.8	3367.0	5294.0	7445.7	8987.4	9093.8	8637.4	7904.4	6665.4
75°	357.0	368.9	697.5	1600.7	3104.5	5714.9	8431.7	8630.3	8159.8	6835.7	4695.8
77.5°	130.0	137.1	196.3	468.2	1194.1	2953.2	6034.1	6325.0	6031.8	4419.2	2220.2
80°	87.5	85.1	101.7	208.1	548.6	837.0	3085.6	3258.2	2974.5	1508.5	532.0
82.5°	44.9	47.3	70.9	115.9	368.9	290.8	1030.9	1120.8	922.1	302.7	99.3
85°	21.3	21.3	40.2	73.3	156.1	101.7	229.4	276.6	248.3	132.4	33.1
87.5°	21.3	21.3	37.8	47.3	80.4	42.6	56.7	70.9	66.2	70.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6	1586.6
2.5°	1574.7	1572.4	1570.0	1574.7	1572.4	1577.1	1577.1	1581.8	1581.8	1577.1	1574.7
5°	1553.5	1548.7	1544.0	1544.0	1541.6	1546.4	1560.6	1572.4	1574.7	1567.6	1565.3
7.5°	1555.8	1555.8	1551.1	1541.6	1525.1	1525.1	1525.1	1539.3	1546.4	1541.6	1539.3
10°	1598.4	1600.7	1588.9	1567.6	1539.3	1513.3	1463.6	1390.3	1321.7	1302.8	1295.7
12.5°	1671.7	1674.0	1650.4	1612.6	1553.5	1399.8	1210.6	1035.6	900.9	863.0	855.9
15°	1759.2	1761.5	1719.0	1657.5	1477.8	1120.8	839.4	640.8	522.5	494.2	491.8
17.5°	1849.0	1844.3	1780.4	1662.2	1253.2	794.5	510.7	409.1	378.3	371.2	373.6
20°	1936.5	1922.3	1834.8	1574.7	964.7	520.2	373.6	349.9	342.8	338.1	338.1
22.5°	2016.9	1988.5	1879.8	1402.1	676.2	373.6	333.4	328.7	319.2	312.1	309.7
25°	2097.3	2057.1	1908.1	1177.5	454.0	326.3	314.5	305.0	293.2	283.7	281.4
27.5°	2194.2	2137.5	1893.9	893.8	340.5	302.7	293.2	279.0	262.5	248.3	243.5
30°	2286.4	2222.6	1813.5	617.1	290.8	279.0	264.8	243.5	222.3	205.7	201.0
32.5°	2402.3	2329.0	1669.3	404.3	253.0	243.5	229.4	203.3	175.0	156.1	151.3
35°	2567.8	2485.1	1484.9	283.7	222.3	205.7	186.8	158.4	127.7	113.5	111.1
37.5°	2799.5	2688.4	1253.2	229.4	196.3	172.6	144.2	115.9	94.6	82.8	80.4
40°	3083.3	2913.0	995.4	203.3	175.0	144.2	108.8	82.8	68.6	59.1	59.1
42.5°	3390.7	3123.5	733.0	186.8	153.7	118.2	80.4	59.1	49.7	44.9	42.6
45°	3707.5	3310.3	494.2	172.6	134.8	89.8	56.7	40.2	33.1	33.1	30.7
47.5°	4036.2	3435.6	319.2	156.1	113.5	66.2	37.8	28.4	23.6	23.6	23.6
50°	4362.4	3501.8	227.0	141.9	92.2	44.9	28.4	21.3	18.9	18.9	18.9
52.5°	4598.9	3459.2	182.1	123.0	70.9	33.1	21.3	16.6	14.2	14.2	14.2
55°	4804.6	3385.9	158.4	106.4	52.0	23.6	16.6	14.2	11.8	11.8	11.8
57.5°	5015.0	3291.3	141.9	89.8	37.8	16.6	11.8	9.5	9.5	9.5	9.5
60°	5206.6	3130.6	123.0	70.9	26.0	11.8	9.5	7.1	7.1	7.1	7.1
62.5°	5393.4	2993.4	106.4	54.4	18.9	9.5	4.7	4.7	2.4	2.4	2.4
65°	5499.8	2809.0	85.1	35.5	11.8	7.1	2.4	2.4	0.0	0.0	0.0
67.5°	5466.7	2589.1	59.1	21.3	7.1	4.7	2.4	0.0	0.0	0.0	0.0
70°	5237.3	2293.5	35.5	11.8	7.1	4.7	2.4	0.0	0.0	0.0	0.0
72.5°	4386.1	1697.7	21.3	9.5	4.7	2.4	0.0	0.0	0.0	0.0	0.0
75°	2929.6	780.3	11.8	7.1	2.4	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	1340.7	234.1	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	269.5	61.5	4.7	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	56.7	11.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	2.4	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)