

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: P381383

Luminaire Tested: **PRV-PA2B-740-U-T2U-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381383  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA2B-740-U-T2U-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 970mA LIGHT ENGINES 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: 13753 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

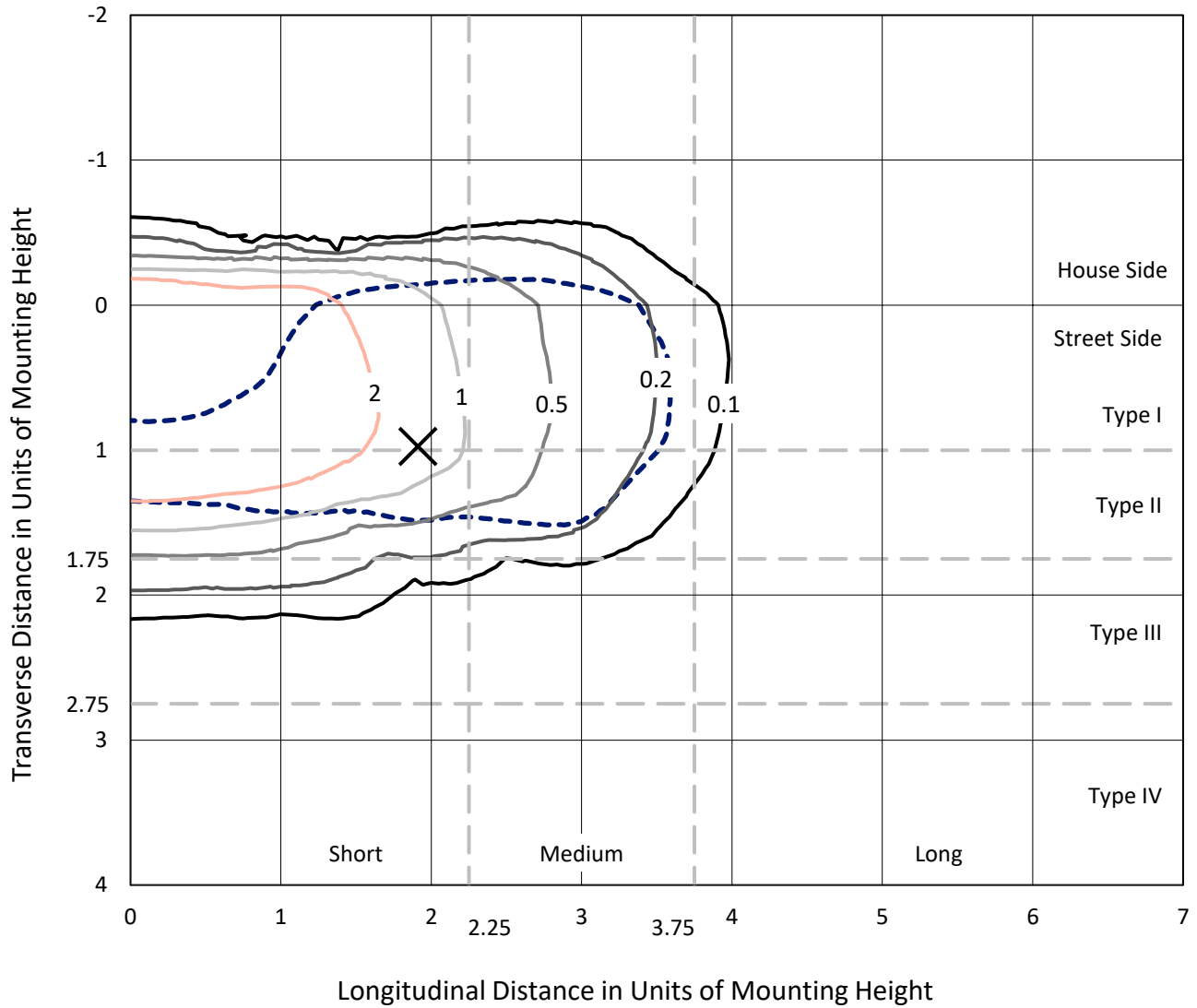
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

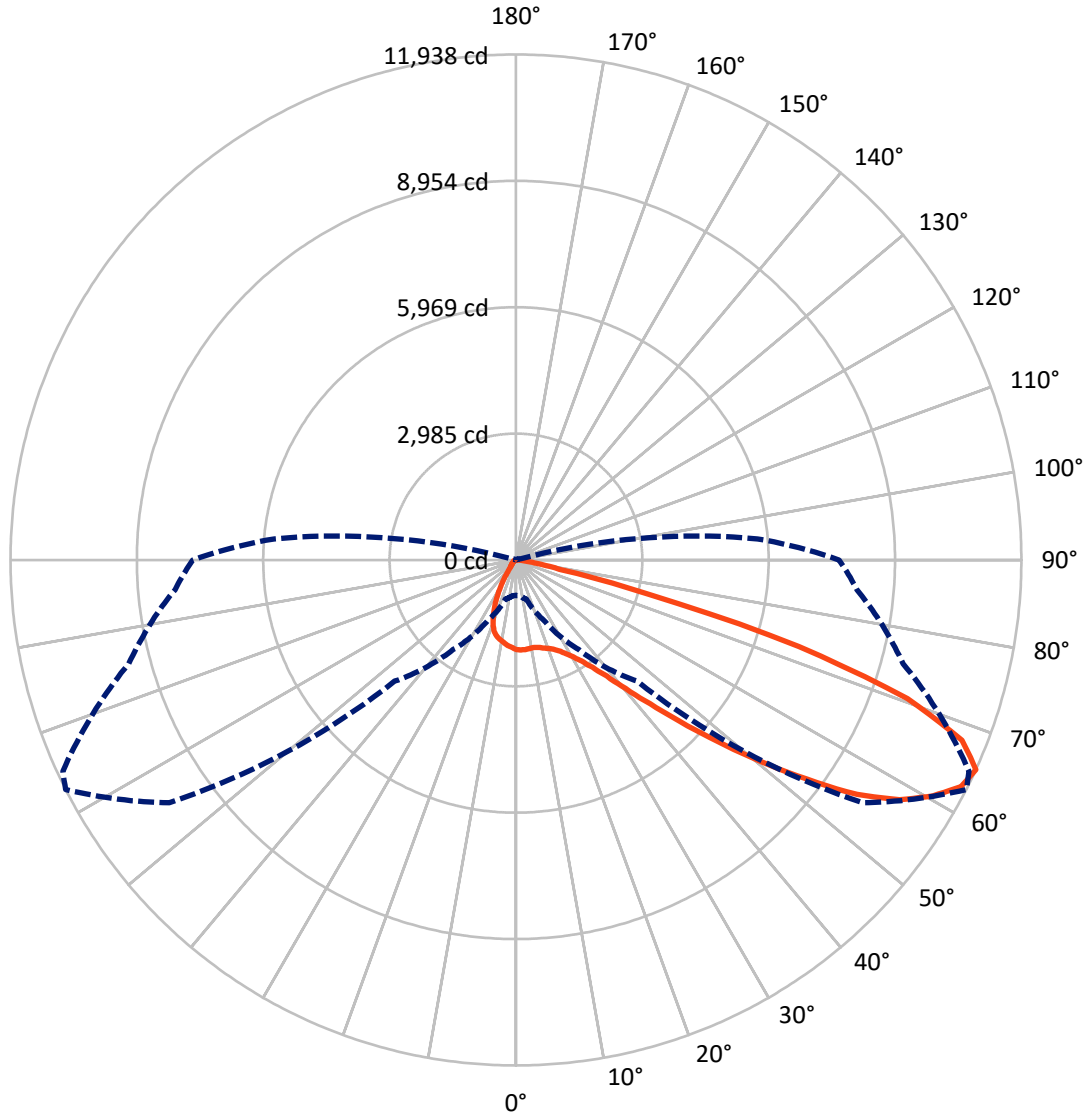
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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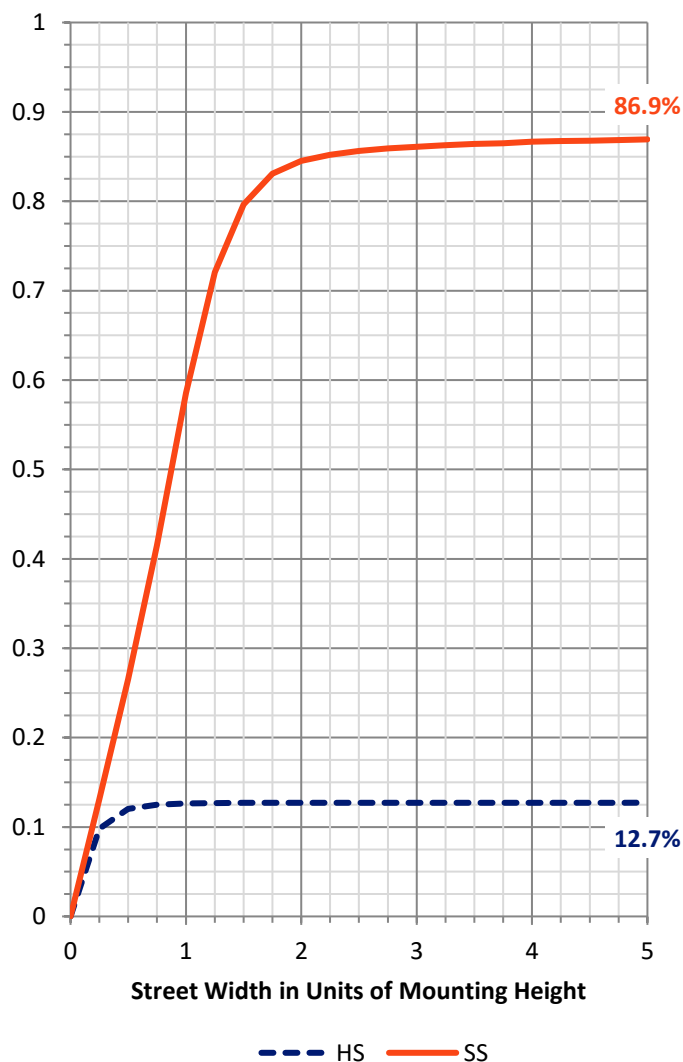
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1770.0	0.0	1770.0
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	11983.0	0.0	11983.0
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	13753.0	0.0	13753.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.3	1.4
10°-20°	476.9	3.5
20°-30°	706.9	5.1
30°-40°	1312.5	9.5
40°-50°	2780.4	20.2
50°-60°	3844.6	28.0
60°-70°	3077.7	22.4
70°-80°	1278.7	9.3
80°-90°	82.1	0.6
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°	13753.0	100.0
0°-180°	13753.0	100.0

**Coefficient of Utilization**

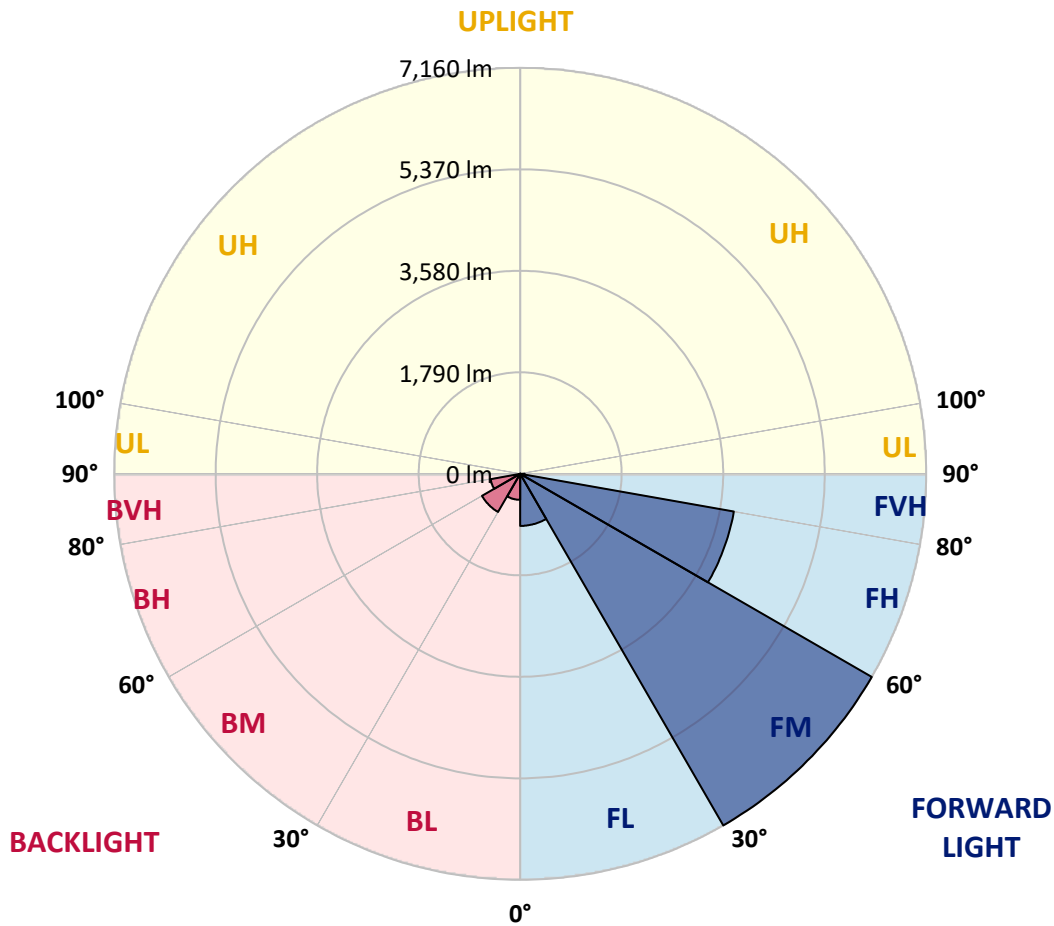


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.4	6.7			
FM (30°-60°)	7159.9	52.1			
FH (60°-80°)	3826.4	27.8			G2/5000
FVH (80°-90°)	78.4	0.6			G1/100
BL (0°-30°)	458.7	3.3	B1/500		
BM (30°-60°)	777.5	5.7	B1/1000		
BH (60°-80°)	530.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	3.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7
2.5°	2155.0	2149.8	2144.6	2142.0	2142.0	2139.4	2129.0	2126.4	2121.3	2116.1	2110.9
5°	2134.2	2126.4	2123.8	2126.4	2129.0	2134.2	2129.0	2129.0	2123.8	2118.7	2108.3
7.5°	2082.3	2077.1	2079.7	2087.5	2090.1	2108.3	2110.9	2118.7	2118.7	2113.5	2105.7
10°	2020.0	2017.4	2017.4	2030.4	2043.4	2069.3	2087.5	2108.3	2110.9	2110.9	2097.9
12.5°	1973.3	1970.7	1978.5	1994.0	2020.0	2053.7	2084.9	2116.1	2121.3	2123.8	2103.1
15°	1944.7	1944.7	1955.1	1986.2	2022.6	2069.3	2105.7	2147.2	2152.4	2149.8	2121.3
17.5°	1918.7	1921.3	1942.1	1994.0	2035.6	2097.9	2142.0	2188.8	2191.4	2188.8	2142.0
20°	1908.3	1913.5	1944.7	2012.2	2058.9	2129.0	2186.2	2232.9	2235.5	2225.1	2162.8
22.5°	1936.9	1939.5	1978.5	2051.2	2095.3	2173.2	2245.9	2290.0	2292.6	2277.0	2194.0
25°	2035.6	2035.6	2069.3	2131.6	2170.6	2248.5	2326.4	2378.3	2378.3	2360.1	2264.1
27.5°	2266.7	2245.9	2238.1	2256.3	2269.2	2352.3	2435.4	2500.3	2497.7	2471.8	2354.9
30°	2713.2	2661.3	2578.2	2484.7	2438.0	2495.1	2573.0	2656.1	2653.5	2612.0	2466.6
32.5°	3463.6	3388.3	3191.0	2944.3	2744.4	2679.5	2752.2	2843.1	2845.6	2796.3	2645.7
35°	4515.1	4395.7	4042.6	3699.9	3242.9	2996.2	3017.0	3115.7	3146.8	3120.9	2946.9
37.5°	5527.7	5418.7	5081.1	4606.0	3985.5	3481.8	3393.5	3479.2	3515.5	3515.5	3331.2
40°	6548.1	6420.9	6122.3	5644.6	4990.3	4239.9	3923.2	3993.3	4032.2	4040.0	3798.5
42.5°	7366.0	7282.9	7054.4	6683.1	6070.4	5569.3	4686.5	4647.5	4683.9	4655.3	4341.2
45°	7932.0	7867.1	7708.7	7568.5	7269.9	7018.1	5706.9	5444.6	5468.0	5369.3	4951.3
47.5°	8048.8	7976.1	7942.4	8137.1	8350.0	8412.3	6960.9	6392.3	6369.0	6150.9	5584.8
50°	7539.9	7547.7	7672.3	8228.0	9115.9	9676.8	8414.9	7462.0	7376.4	6890.8	6174.2
52.5°	6441.7	6566.3	6880.4	7781.4	9349.6	10595.9	9868.9	8596.7	8464.2	7610.0	6615.6
55°	5039.6	5200.6	5717.3	6753.2	8861.5	11006.1	11094.4	9775.4	9474.2	8150.1	6958.3
57.5°	3746.6	3795.9	4398.3	5343.4	7706.1	10603.7	11722.7	10684.2	10297.3	8581.1	7298.5
60°	2334.2	2365.3	3001.4	4068.5	5836.7	9115.9	11722.7	11309.9	10941.2	8967.9	7610.0
62.5°	1451.4	1461.8	1700.6	2788.5	3967.3	6761.0	11237.2	11795.4	11499.4	9245.8	7877.5
65°	836.0	846.4	958.1	1576.0	2580.8	4047.8	9996.1	11938.2	11805.8	9466.5	8085.2
67.5°	610.2	615.3	659.5	885.4	1687.7	2079.7	7508.8	11364.4	11530.6	9575.5	8080.0
70°	529.7	537.5	594.6	690.6	1217.7	1277.4	3821.9	9814.4	10279.1	9419.7	7838.5
72.5°	407.6	418.0	503.7	649.1	893.2	919.1	1383.9	6984.3	7687.9	8446.1	7176.4
75°	280.4	290.8	376.5	534.9	737.4	688.0	760.7	3214.3	4055.6	5665.3	5462.8
77.5°	179.2	181.7	236.3	389.5	636.1	488.1	521.9	1048.9	1472.2	2562.6	2578.2
80°	119.4	122.0	145.4	251.9	436.2	451.8	322.0	485.5	532.3	747.8	519.3
82.5°	72.7	72.7	98.7	158.4	264.8	373.9	210.3	254.4	272.6	288.2	135.0
85°	28.6	28.6	59.7	103.9	166.2	174.0	132.4	148.0	155.8	168.8	62.3
87.5°	7.8	7.8	33.8	57.1	72.7	80.5	80.5	72.7	77.9	96.1	31.2
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°	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7	2118.7
2.5°	2108.3	2100.5	2090.1	2079.7	2069.3	2061.5	2053.7	2053.7	2048.6	2040.8	2035.6
5°	2103.1	2090.1	2066.7	2048.6	2020.0	1999.2	1983.6	1970.7	1962.9	1944.7	1942.1
7.5°	2095.3	2079.7	2046.0	2009.6	1962.9	1926.5	1890.2	1864.2	1838.2	1817.5	1812.3
10°	2082.3	2064.1	2014.8	1962.9	1898.0	1830.5	1744.8	1646.1	1555.2	1503.3	1487.7
12.5°	2082.3	2058.9	1994.0	1923.9	1830.5	1664.3	1446.2	1228.1	1059.3	984.0	963.3
15°	2095.3	2064.1	1978.5	1882.4	1708.4	1370.9	1017.8	729.6	545.2	488.1	475.1
17.5°	2108.3	2064.1	1955.1	1825.3	1485.1	994.4	579.0	384.3	324.5	311.6	311.6
20°	2113.5	2058.9	1923.9	1718.8	1186.6	617.9	345.3	288.2	264.8	257.0	257.0
22.5°	2134.2	2061.5	1900.6	1565.6	862.0	363.5	272.6	241.5	218.1	210.3	210.3
25°	2186.2	2092.7	1905.8	1370.9	553.0	275.2	231.1	199.9	176.6	166.2	166.2
27.5°	2269.2	2162.8	1934.3	1145.0	347.9	236.3	194.7	161.0	142.8	132.4	132.4
30°	2362.7	2240.7	1947.3	885.4	259.6	199.9	158.4	127.2	114.2	106.5	103.9
32.5°	2526.3	2375.7	1936.9	607.6	212.9	168.8	127.2	101.3	90.9	88.3	88.3
35°	2788.5	2612.0	1916.1	381.7	176.6	135.0	101.3	83.1	75.3	72.7	70.1
37.5°	3144.2	2957.3	1853.8	251.9	145.4	106.5	83.1	70.1	62.3	59.7	59.7
40°	3577.8	3351.9	1734.4	192.1	124.6	85.7	70.1	59.7	54.5	51.9	51.9
42.5°	4073.7	3790.7	1544.9	166.2	103.9	72.7	59.7	49.3	46.7	44.1	44.1
45°	4616.4	4250.3	1282.6	148.0	88.3	59.7	49.3	44.1	38.9	38.9	36.3
47.5°	5192.8	4712.5	986.6	129.8	75.3	51.9	44.1	36.3	33.8	31.2	31.2
50°	5748.4	5125.3	693.2	111.6	62.3	44.1	36.3	31.2	28.6	26.0	26.0
52.5°	6140.5	5374.5	490.7	96.1	51.9	38.9	28.6	23.4	20.8	20.8	20.8
55°	6454.6	5530.3	342.7	80.5	44.1	33.8	23.4	18.2	18.2	15.6	15.6
57.5°	6750.6	5631.6	251.9	67.5	36.3	26.0	18.2	13.0	13.0	10.4	10.4
60°	7057.0	5686.1	192.1	54.5	31.2	20.8	13.0	10.4	7.8	7.8	7.8
62.5°	7366.0	5719.9	148.0	44.1	26.0	15.6	10.4	7.8	5.2	2.6	2.6
65°	7636.0	5730.2	114.2	33.8	20.8	10.4	7.8	2.6	0.0	0.0	0.0
67.5°	7716.5	5610.8	88.3	26.0	15.6	7.8	5.2	0.0	0.0	0.0	0.0
70°	7498.4	5294.0	67.5	20.8	13.0	5.2	2.6	0.0	0.0	0.0	0.0
72.5°	6654.6	4439.8	51.9	13.0	10.4	5.2	2.6	0.0	0.0	0.0	0.0
75°	4761.8	2367.9	36.3	10.4	7.8	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	2191.4	916.5	26.0	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
80°	428.4	228.5	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	98.7	38.9	5.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.8	13.0	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	5.2	2.6	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)