

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: P381319

Luminaire Tested: **PRV-PA2B-740-U-T4W-HSS**

Issue Date: 1/15/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P381319  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 1/15/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: PRV-PA2B-740-U-T4W-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 970mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

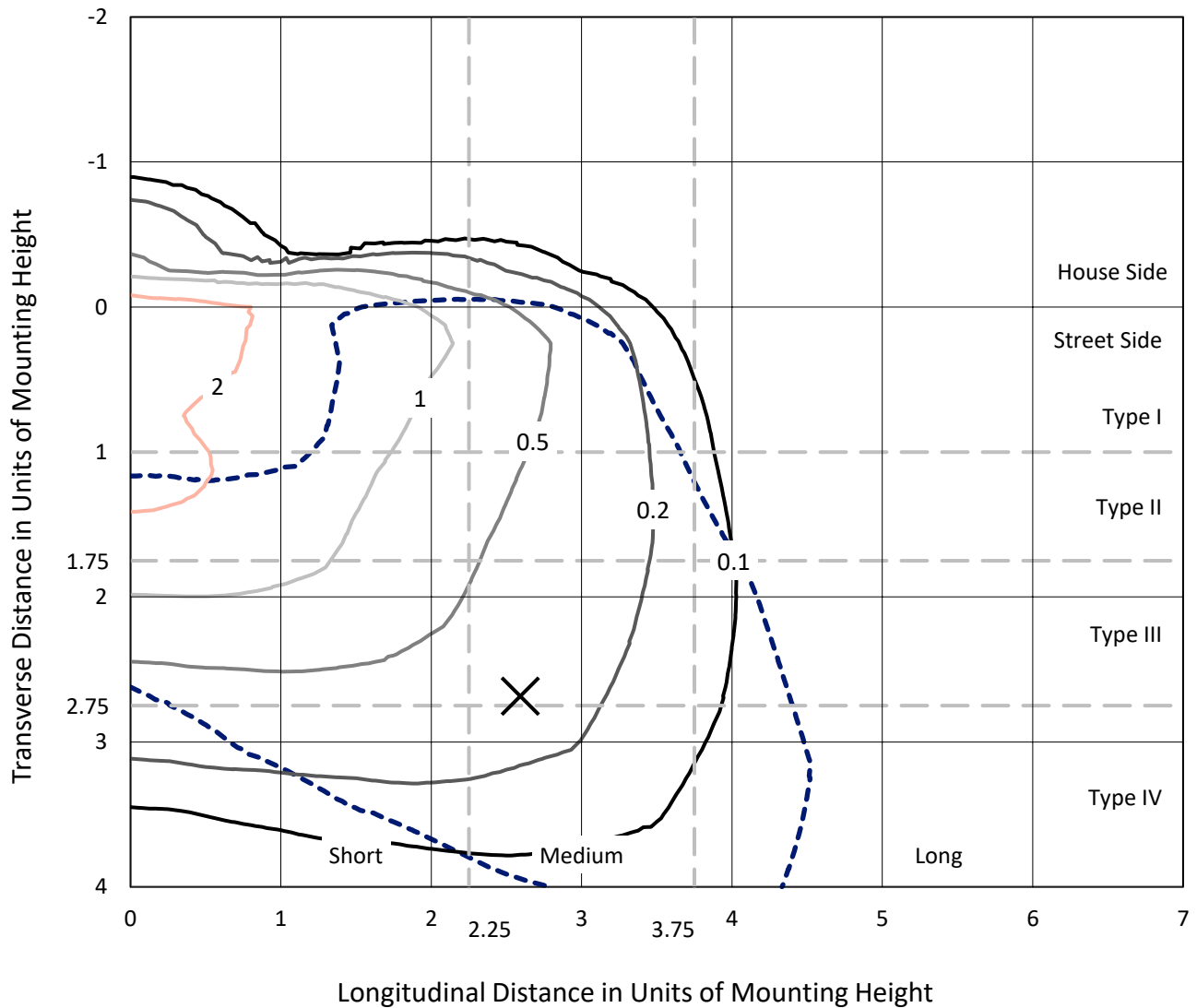
Lumens per Lamp: N/A  
Luminaire Lumens: 14072 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 151  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

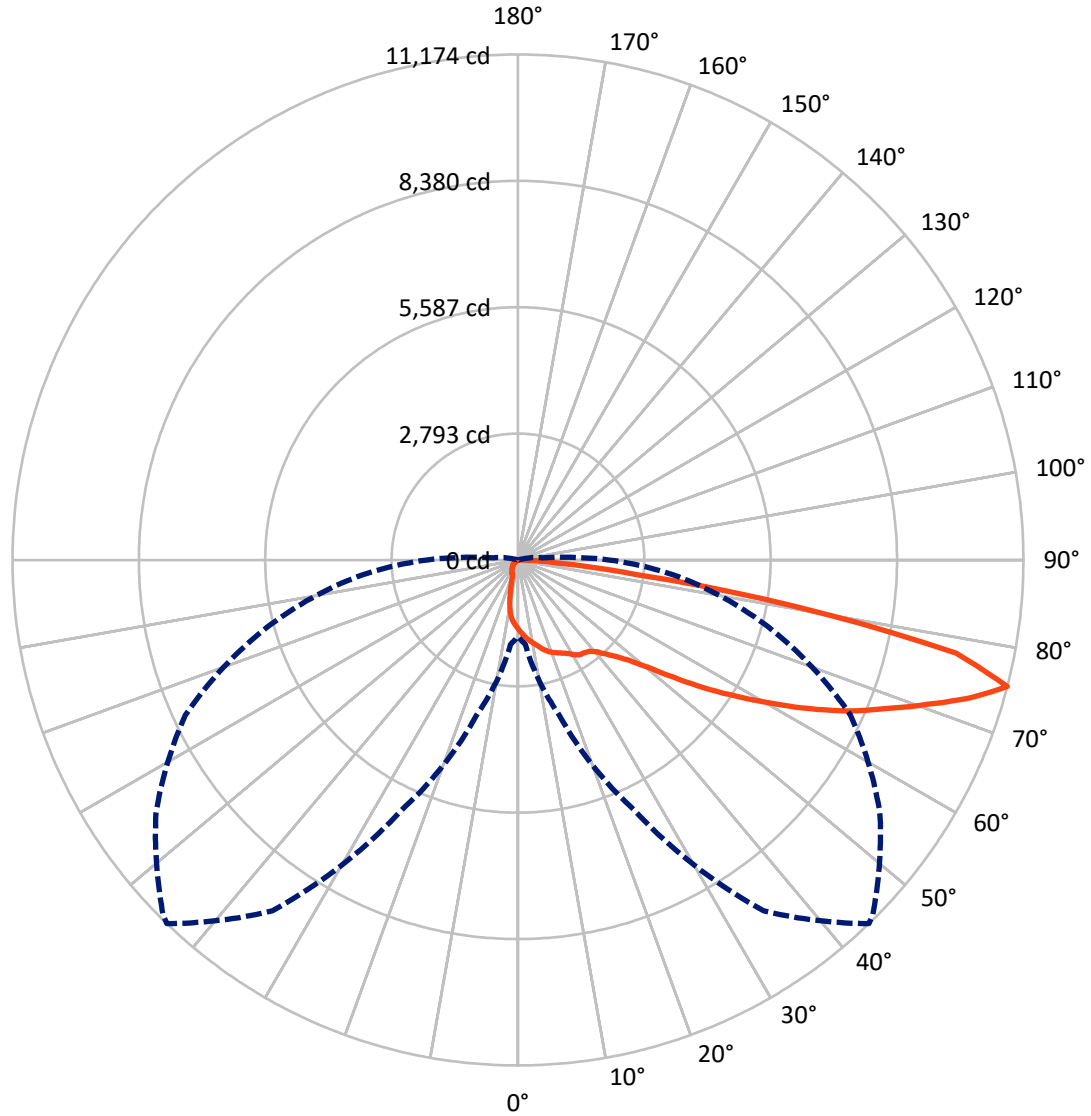
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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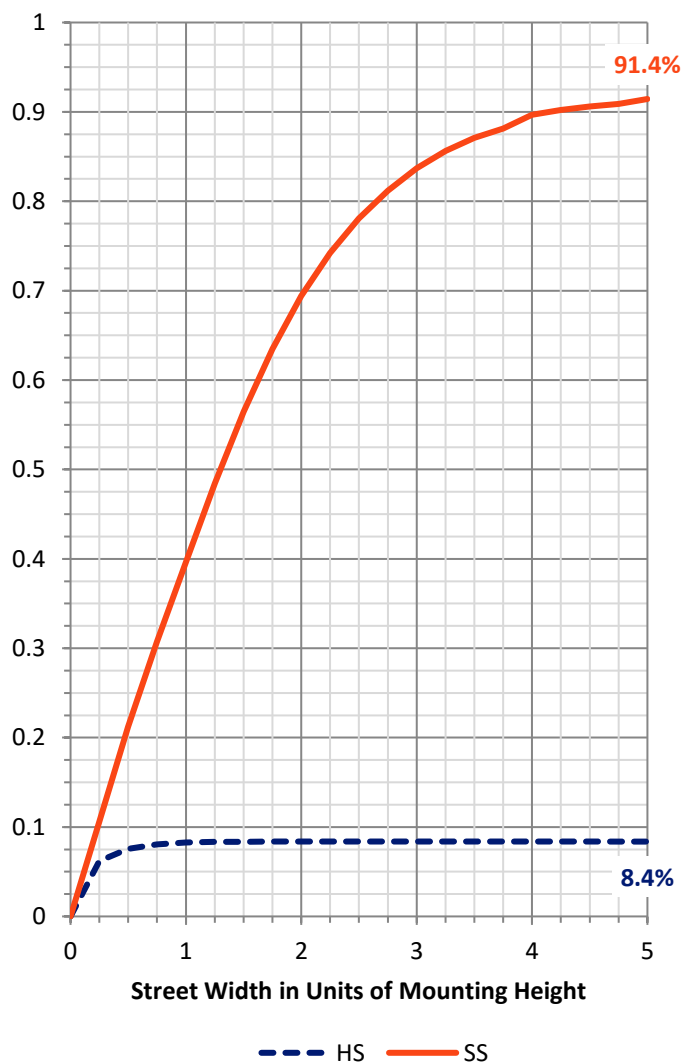
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1186.7	0.0	1186.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	12885.3	0.0	12885.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	14072.0	0.0	14072.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.4	1.0
10°-20°	404.8	2.9
20°-30°	668.0	4.7
30°-40°	969.5	6.9
40°-50°	1576.0	11.2
50°-60°	2778.3	19.7
60°-70°	3993.0	28.4
70°-80°	3197.5	22.7
80°-90°	340.7	2.4
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°	14072.0	100.0
0°-180°	14072.0	100.0

**Coefficient of Utilization**



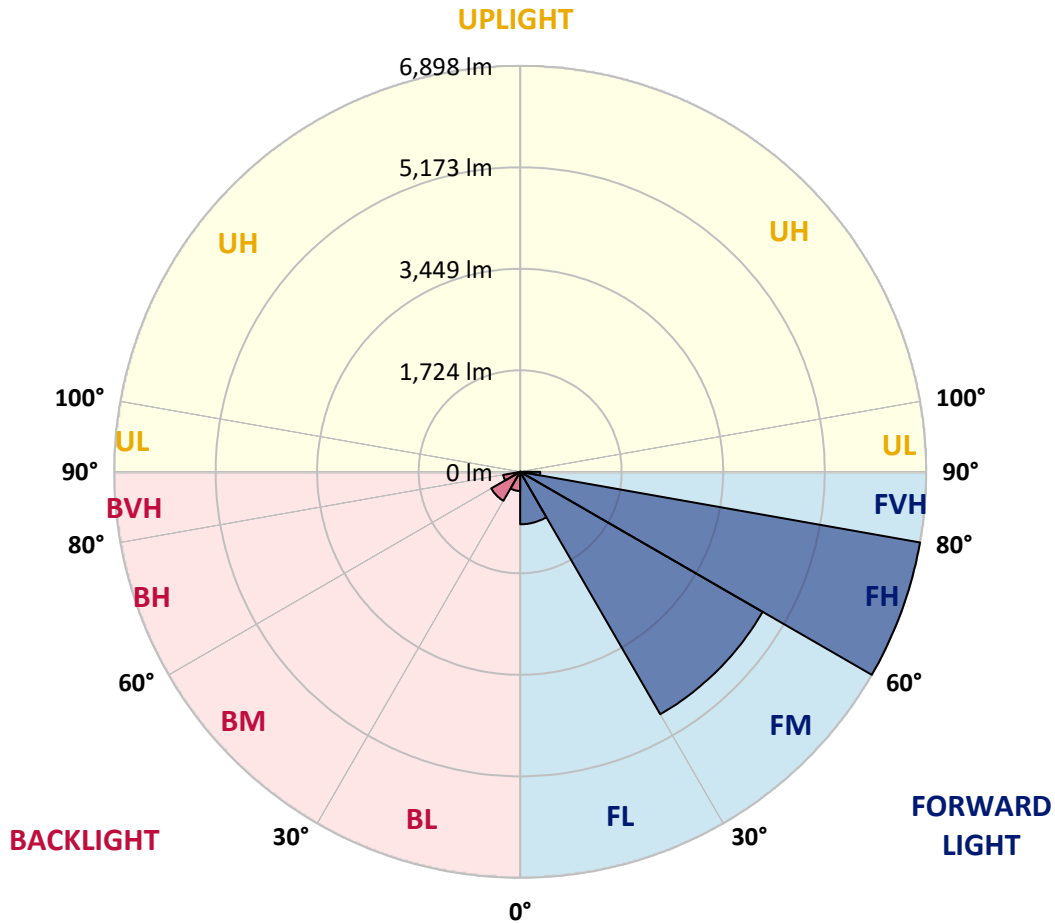
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.2	6.3			
FM (30°-60°)	4756.5	33.8			
FH (60°-80°)	6897.9	49.0			G3/7500
FVH (80°-90°)	339.8	2.4			G3/500
BL (0°-30°)	326.0	2.3	B1/500		
BM (30°-60°)	567.3	4.0	B1/1000		
BH (60°-80°)	292.6	2.1	B1/500		G1/500
BVH (80°-90°)	0.9	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-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7
2.5°	1669.3	1666.7	1658.9	1645.9	1632.9	1620.0	1617.4	1596.6	1573.2	1555.0	1539.5
5°	1817.3	1814.7	1801.7	1773.1	1744.6	1710.8	1708.2	1658.9	1614.8	1565.4	1523.9
7.5°	1970.4	1965.2	1941.9	1897.7	1848.4	1796.5	1791.3	1718.6	1653.7	1588.8	1529.1
10°	2089.8	2084.6	2050.9	1999.0	1931.5	1866.6	1858.8	1783.5	1718.6	1635.5	1555.0
12.5°	2206.7	2196.3	2152.1	2095.0	2012.0	1949.7	1941.9	1864.0	1786.1	1700.4	1601.8
15°	2315.7	2302.7	2261.2	2188.5	2100.2	2040.5	2035.3	1952.2	1871.8	1773.1	1664.1
17.5°	2391.0	2385.8	2336.5	2256.0	2170.3	2121.0	2115.8	2030.1	1949.7	1845.8	1729.0
20°	2429.9	2429.9	2383.2	2294.9	2217.0	2183.3	2175.5	2095.0	2017.1	1918.5	1796.5
22.5°	2437.7	2445.5	2409.2	2313.1	2256.0	2227.4	2222.2	2152.1	2076.9	1986.0	1871.8
25°	2453.3	2453.3	2435.1	2331.3	2289.7	2281.9	2279.4	2217.0	2149.5	2058.7	1947.1
27.5°	2471.5	2471.5	2458.5	2357.2	2341.7	2339.1	2336.5	2307.9	2253.4	2147.0	2035.3
30°	2518.2	2520.8	2510.4	2409.2	2398.8	2427.3	2432.5	2416.9	2349.4	2217.0	2126.2
32.5°	2635.0	2611.7	2583.1	2445.5	2463.7	2500.0	2502.6	2471.5	2398.8	2292.3	2235.2
35°	2928.4	2790.8	2661.0	2476.7	2484.4	2520.8	2526.0	2523.4	2479.3	2388.4	2359.8
37.5°	3201.0	3006.3	2821.9	2549.3	2523.4	2562.3	2572.7	2616.8	2583.1	2520.8	2528.6
40°	3359.3	3284.0	3154.2	2749.2	2601.3	2661.0	2671.4	2738.9	2725.9	2699.9	2749.2
42.5°	3847.4	3852.6	3712.4	3047.8	2744.1	2840.1	2853.1	2907.6	2925.8	2938.8	3058.2
45°	4413.3	4431.5	4397.7	3585.2	3014.0	3045.2	3063.4	3136.1	3203.6	3286.6	3504.7
47.5°	5093.5	5077.9	4953.3	4242.0	3483.9	3310.0	3323.0	3463.2	3580.0	3761.7	4073.2
50°	5695.8	5734.7	5498.5	4854.7	4145.9	3728.0	3715.0	3852.6	4062.9	4317.3	4709.3
52.5°	6303.3	6246.2	5926.8	5462.1	4929.9	4296.5	4257.6	4332.8	4628.8	4929.9	5332.3
55°	6464.2	6469.4	6360.4	6126.7	5584.2	4987.1	4922.2	4917.0	5285.6	5490.7	5986.5
57.5°	6780.9	6793.9	6819.9	6866.6	6609.6	5677.6	5610.1	5537.4	5895.7	6015.1	6643.4
60°	7102.9	7118.4	7276.8	7528.6	7357.3	6422.7	6350.0	6178.7	6378.6	6539.5	7333.9
62.5°	7061.3	7170.4	7629.9	8130.9	8110.1	7240.5	7149.6	6736.8	6864.0	7004.2	7967.4
65°	6376.0	6492.8	7526.0	8297.1	8865.6	8047.8	7899.9	7313.1	7320.9	7489.7	8577.4
67.5°	5763.3	5890.5	6877.0	8227.0	9364.0	8772.1	8619.0	7892.1	7770.1	8050.4	8904.5
70°	5410.2	5537.4	6360.4	8008.9	9504.2	9574.3	9441.9	8554.1	8304.8	8561.9	8538.5
72.5°	4234.2	4434.1	5701.0	7593.5	9654.8	10433.6	10329.8	9392.6	8759.2	8027.1	6500.6
75°	1687.4	1871.8	3559.2	6111.2	9465.3	11173.5	11093.0	9769.0	8107.5	5732.1	3328.2
77.5°	508.8	545.2	989.1	3021.8	6939.3	9906.6	9880.7	8214.0	5737.3	2661.0	908.6
80°	168.7	186.9	303.7	833.3	3167.2	6189.0	6305.9	5233.7	2606.5	610.1	184.3
82.5°	70.1	77.9	153.2	334.9	1121.5	2666.2	2627.2	2344.3	908.6	379.0	67.5
85°	18.2	23.4	70.1	192.1	410.2	919.0	965.7	786.6	514.0	314.1	20.8
87.5°	0.0	0.0	33.7	77.9	184.3	277.8	290.8	238.8	290.8	236.2	10.4
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°	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7	1531.7
2.5°	1526.5	1513.5	1490.1	1474.6	1453.8	1448.6	1438.2	1425.2	1422.6	1409.7	1412.3
5°	1500.5	1479.8	1438.2	1409.7	1375.9	1365.5	1347.4	1334.4	1324.0	1305.8	1308.4
7.5°	1495.3	1464.2	1407.1	1352.6	1298.0	1259.1	1204.6	1160.4	1124.1	1085.2	1092.9
10°	1513.5	1474.6	1394.1	1318.8	1220.2	1095.5	952.8	859.3	812.6	765.8	771.0
12.5°	1549.9	1503.1	1399.3	1285.1	1085.2	872.3	675.0	547.8	514.0	493.3	495.9
15°	1604.4	1547.3	1414.9	1220.2	903.4	630.8	449.1	394.6	407.6	415.4	415.4
17.5°	1661.5	1596.6	1427.8	1103.3	698.3	441.3	366.0	360.9	379.0	397.2	397.2
20°	1731.6	1648.5	1430.4	955.4	503.6	358.3	345.3	345.3	358.3	379.0	379.0
22.5°	1799.1	1705.6	1407.1	786.6	384.2	332.3	332.3	332.3	340.1	360.9	363.5
25°	1879.6	1775.7	1357.7	607.5	329.7	316.7	316.7	319.3	324.5	342.7	345.3
27.5°	1965.2	1848.4	1274.7	443.9	301.1	298.5	301.1	303.7	306.3	324.5	329.7
30°	2063.9	1928.9	1168.2	332.3	275.2	275.2	283.0	288.2	288.2	303.7	308.9
32.5°	2178.1	2035.3	1041.0	275.2	249.2	246.6	259.6	267.4	267.4	280.4	285.6
35°	2320.9	2144.4	887.9	244.0	228.5	223.3	228.5	241.4	246.6	257.0	259.6
37.5°	2510.4	2274.2	724.3	225.9	212.9	202.5	202.5	205.1	215.5	225.9	228.5
40°	2751.8	2416.9	563.3	212.9	197.3	186.9	179.1	176.5	173.9	181.7	186.9
42.5°	3055.6	2577.9	420.6	199.9	184.3	168.7	158.4	148.0	135.0	132.4	135.0
45°	3445.0	2775.2	311.5	189.5	176.5	153.2	135.0	116.8	93.5	85.7	88.3
47.5°	3904.5	2980.3	244.0	179.1	171.3	135.0	111.6	80.5	57.1	51.9	54.5
50°	4392.6	3177.6	207.7	166.1	161.0	116.8	80.5	49.3	33.7	33.7	36.3
52.5°	4807.9	3289.2	189.5	155.8	145.4	96.1	51.9	28.6	20.8	20.8	23.4
55°	5210.3	3348.9	176.5	145.4	124.6	67.5	28.6	18.2	13.0	13.0	13.0
57.5°	5625.7	3374.9	161.0	132.4	98.7	41.5	15.6	10.4	7.8	7.8	7.8
60°	5994.3	3325.6	137.6	109.0	64.9	20.8	7.8	7.8	5.2	2.6	2.6
62.5°	6303.3	3232.1	96.1	77.9	38.9	10.4	5.2	2.6	0.0	0.0	0.0
65°	6492.8	3081.5	62.3	51.9	23.4	7.8	2.6	0.0	0.0	0.0	0.0
67.5°	6438.3	2798.6	38.9	33.7	10.4	5.2	2.6	0.0	0.0	0.0	0.0
70°	5810.0	2294.9	28.6	20.8	7.8	2.6	0.0	0.0	0.0	0.0	0.0
72.5°	4187.5	1552.5	20.8	13.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	2014.6	553.0	13.0	10.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	493.3	122.0	7.8	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.0	23.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.3	10.4	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.0	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	2.6	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)