

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: P381255

Luminaire Tested: **PRV-PA2B-740-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381255
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-740-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 14519 lumens
Efficiency: N/A
Efficacy: 96.2 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

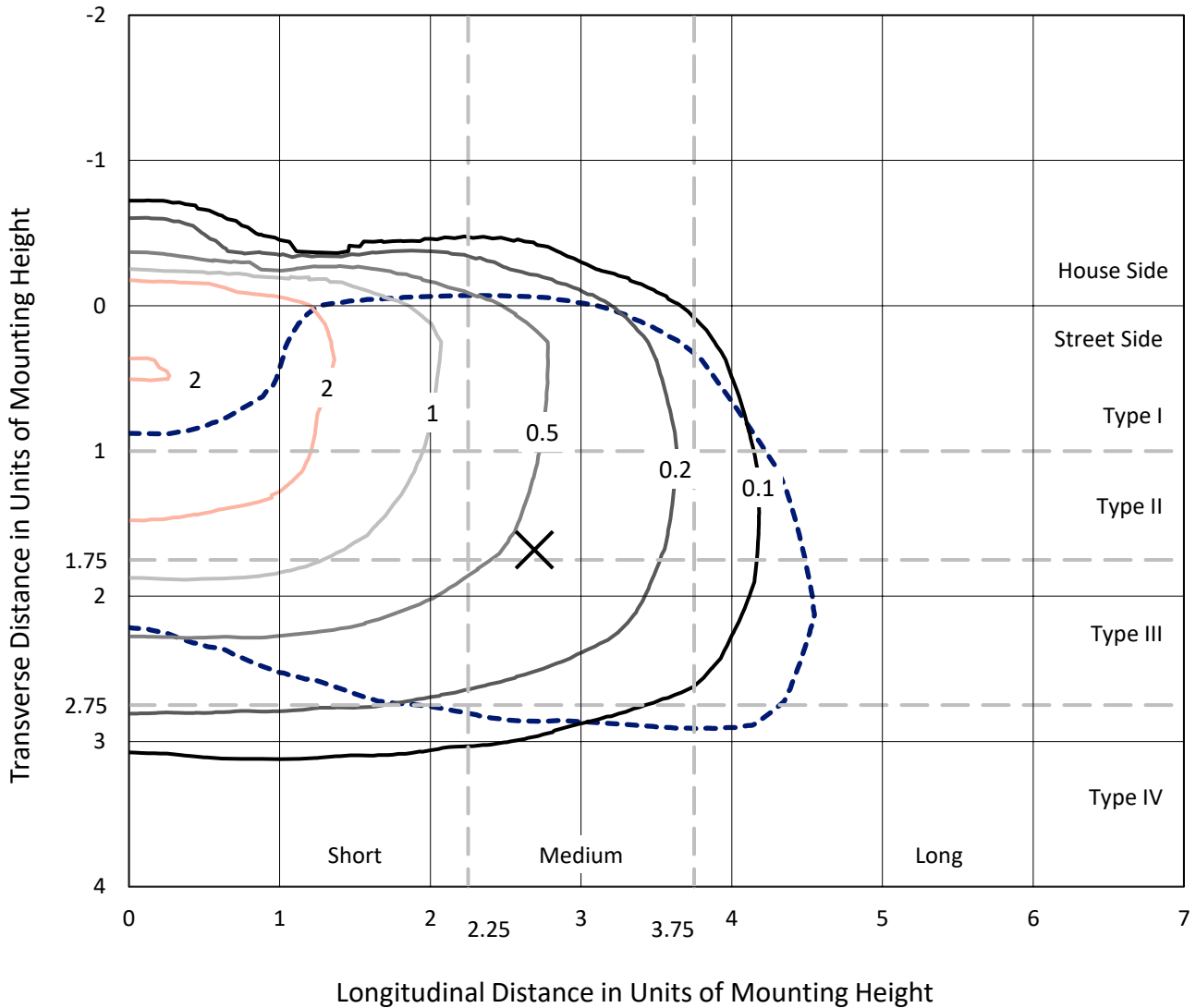
Input Watts (W): 151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

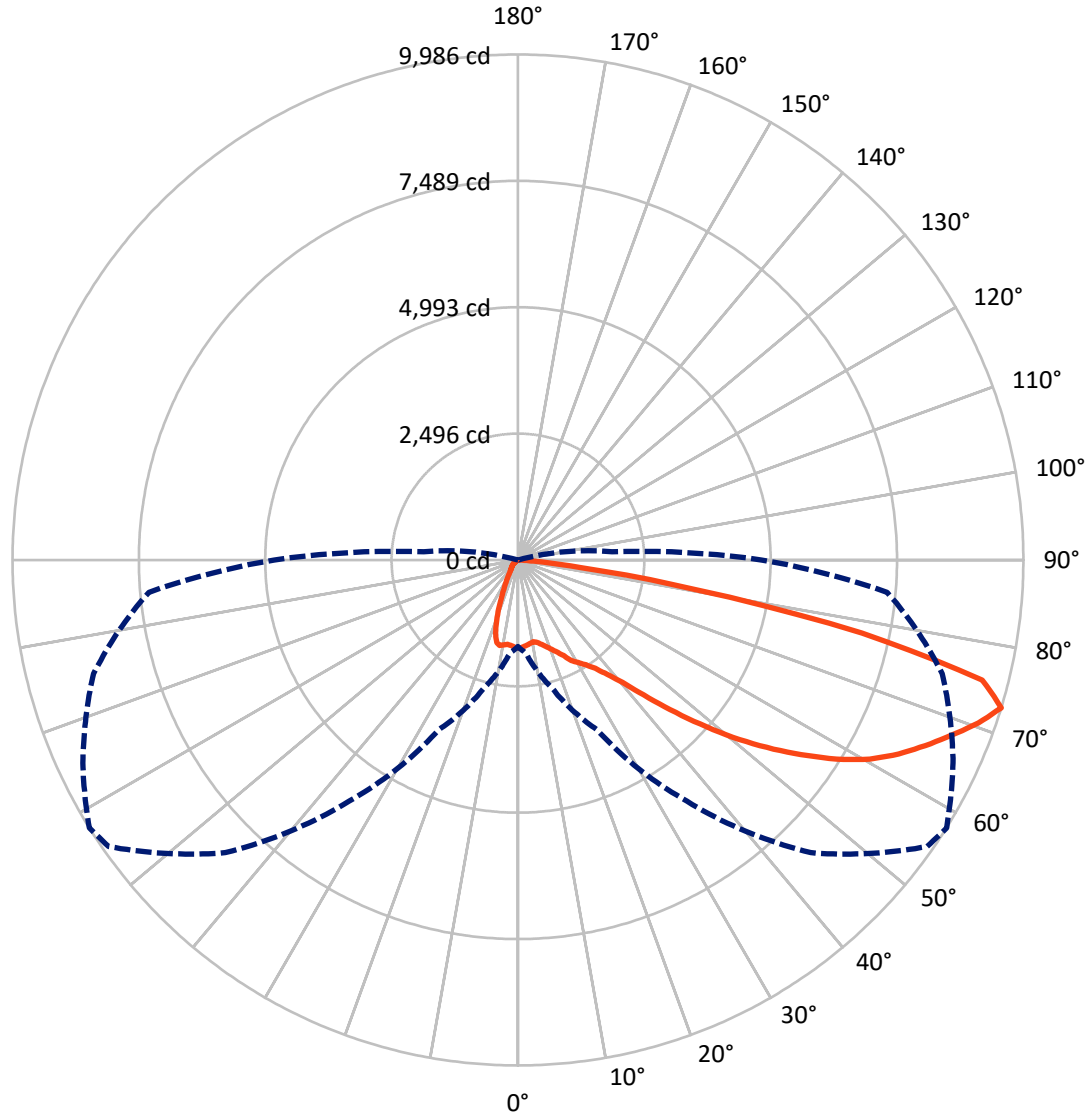
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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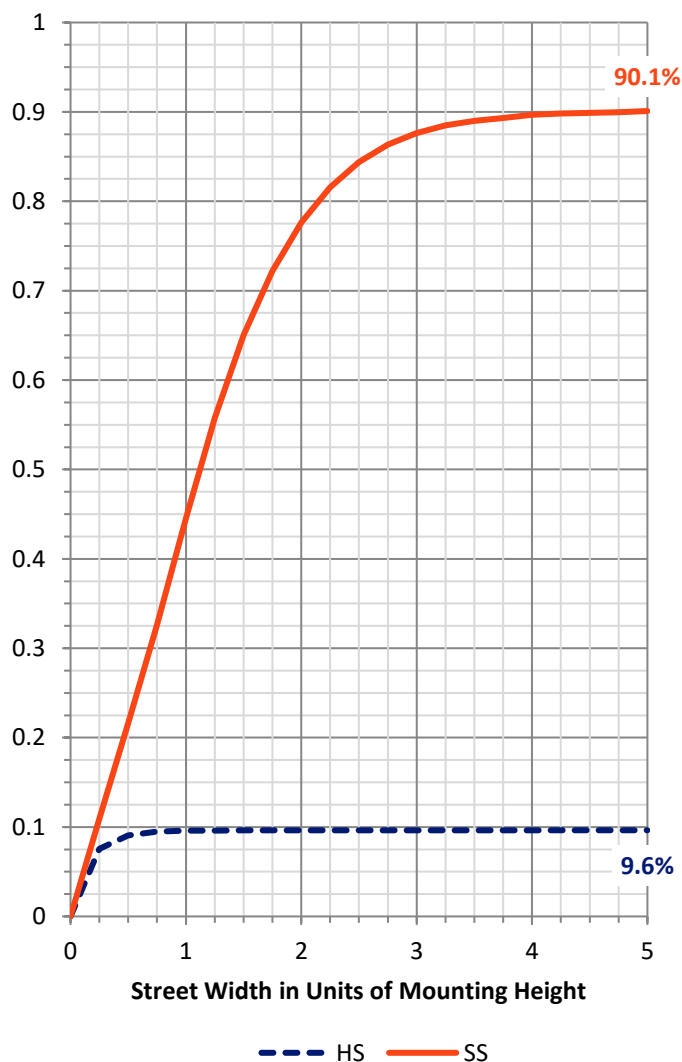
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1411.9	0.0	1411.9
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	13107.1	0.0	13107.1
	% Fixture	90.3	0.0	90.3
Total	Lumens	14519.0	0.0	14519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.9	1.1
10°-20°	416.4	2.9
20°-30°	654.2	4.5
30°-40°	1128.2	7.8
40°-50°	2146.5	14.8
50°-60°	3399.5	23.4
60°-70°	3966.8	27.3
70°-80°	2484.4	17.1
80°-90°	163.1	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°	14519.0	100.0
0°-180°	14519.0	100.0

Coefficient of Utilization



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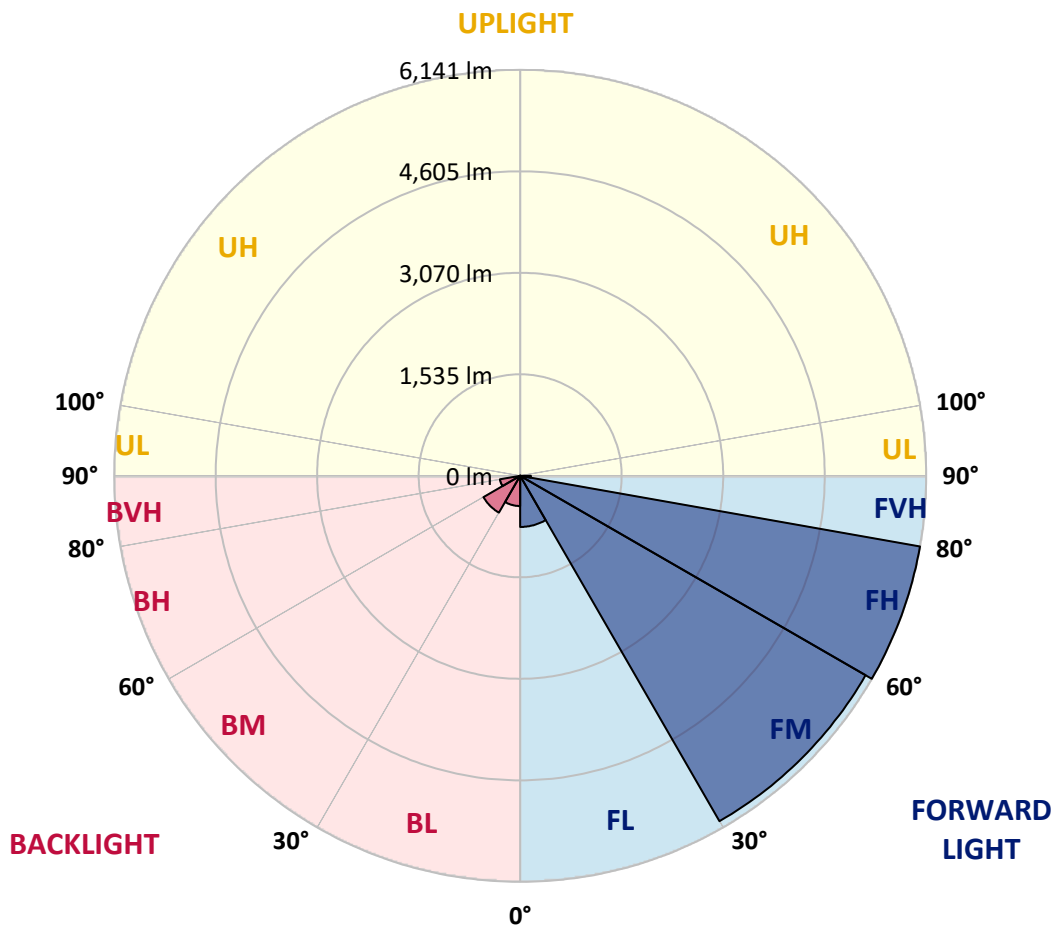
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.3	5.3			
FM (30°-60°)	6031.8	41.5			
FH (60°-80°)	6140.5	42.3			G3/7500
FVH (80°-90°)	161.5	1.1			G2/225
BL (0°-30°)	457.2	3.1	B1/500		
BM (30°-60°)	642.4	4.4	B1/1000		
BH (60°-80°)	310.7	2.1	B1/500		G1/500
BVH (80°-90°)	1.6	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°	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2
2.5°	1734.4	1726.6	1724.0	1721.4	1724.0	1726.6	1718.8	1726.6	1721.4	1724.0	1729.2
5°	1672.1	1664.3	1661.7	1664.3	1672.1	1685.1	1690.3	1698.1	1698.1	1705.8	1708.4
7.5°	1602.0	1596.8	1594.2	1599.4	1615.0	1643.5	1659.1	1669.5	1679.9	1695.5	1711.0
10°	1563.0	1560.4	1557.8	1565.6	1581.2	1607.2	1627.9	1643.5	1682.5	1726.6	1755.2
12.5°	1537.1	1537.1	1542.3	1557.8	1578.6	1599.4	1648.7	1669.5	1729.2	1796.7	1835.7
15°	1516.3	1516.3	1524.1	1552.7	1581.2	1630.5	1703.2	1726.6	1796.7	1879.8	1931.7
17.5°	1500.7	1505.9	1511.1	1539.7	1594.2	1677.3	1763.0	1796.7	1882.4	1973.3	2030.4
20°	1503.3	1508.5	1511.1	1539.7	1617.6	1731.8	1840.9	1879.8	1978.5	2074.5	2131.7
22.5°	1518.9	1526.7	1529.3	1568.2	1659.1	1788.9	1929.1	1973.3	2079.7	2181.0	2225.1
25°	1583.8	1589.0	1573.4	1607.2	1718.8	1877.2	2043.4	2090.1	2196.6	2290.0	2326.4
27.5°	1804.5	1809.7	1724.0	1685.1	1765.6	1949.9	2183.6	2248.5	2380.9	2443.2	2448.4
30°	2282.2	2287.4	2118.7	1934.3	1877.2	2012.2	2261.5	2352.3	2523.7	2593.8	2562.7
32.5°	2897.6	2892.4	2661.3	2388.7	2142.0	2121.3	2373.1	2469.2	2656.1	2723.6	2700.3
35°	3515.5	3523.3	3326.0	2915.8	2562.7	2326.4	2515.9	2627.6	2853.5	2949.5	2908.0
37.5°	3938.8	3990.7	3905.0	3461.0	3079.3	2705.5	2747.0	2866.4	3149.4	3279.3	3191.0
40°	4535.9	4522.9	4315.2	3988.1	3650.6	3266.3	3120.9	3178.0	3502.6	3676.5	3538.9
42.5°	5338.2	5312.3	4959.1	4639.8	4263.3	3949.1	3653.1	3642.8	3907.6	4110.1	3910.2
45°	6065.2	6026.3	5784.8	5475.8	5063.0	4702.1	4302.3	4211.4	4395.7	4567.1	4333.4
47.5°	6644.2	6579.3	6407.9	6244.4	6143.1	5582.3	4982.5	4844.9	4938.4	5065.6	4735.9
50°	7329.7	7150.5	6901.3	6802.6	7012.9	6579.3	5636.8	5504.4	5499.2	5571.9	5151.3
52.5°	7641.2	7316.7	7176.5	7259.6	7630.9	7506.2	6343.0	6153.5	6078.2	6086.0	5538.1
55°	7264.8	7228.4	7303.7	7563.3	8048.9	7976.2	7020.7	6787.0	6675.4	6535.2	5909.4
57.5°	6836.3	6948.0	7246.6	7742.5	8578.5	8466.9	7688.0	7423.1	7218.0	6896.1	6322.3
60°	6441.7	6555.9	7049.3	7784.0	8869.3	8939.4	8243.6	7991.8	7688.0	7264.8	6776.6
62.5°	5841.9	5930.2	6623.4	7724.3	8742.1	9214.7	8630.5	8440.9	8157.9	7615.3	7298.5
65°	5166.9	5224.0	5909.4	7246.6	8492.9	9183.5	8949.8	8843.4	8568.2	7981.4	7815.2
67.5°	4426.9	4494.4	5065.6	6387.2	8004.7	9038.1	9251.0	9240.6	8926.5	8386.4	8189.1
70°	3575.3	3580.5	4053.0	5296.7	7153.1	8747.3	9624.9	9648.3	9269.2	8690.2	8204.7
72.5°	1711.0	1851.2	2627.6	3697.3	5813.4	8176.1	9869.0	9985.8	9484.7	8679.8	7319.3
75°	392.1	405.0	765.9	1757.8	3409.1	6275.5	9258.8	9476.9	8960.2	7506.2	5156.5
77.5°	142.8	150.6	215.5	514.1	1311.2	3242.9	6626.0	6945.4	6623.4	4852.7	2438.0
80°	96.1	93.5	111.6	228.5	602.4	919.1	3388.3	3577.9	3266.3	1656.5	584.2
82.5°	49.3	51.9	77.9	127.2	405.0	319.4	1132.0	1230.7	1012.6	332.3	109.0
85°	23.4	23.4	44.1	80.5	171.4	111.6	251.9	303.8	272.6	145.4	36.3
87.5°	23.4	23.4	41.5	51.9	88.3	46.7	62.3	77.9	72.7	77.9	13.0
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°	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2	1742.2
2.5°	1729.2	1726.6	1724.0	1729.2	1726.6	1731.8	1731.8	1737.0	1737.0	1731.8	1729.2
5°	1705.8	1700.6	1695.5	1695.5	1692.9	1698.1	1713.6	1726.6	1729.2	1721.4	1718.8
7.5°	1708.4	1708.4	1703.2	1692.9	1674.7	1674.7	1674.7	1690.3	1698.1	1692.9	1690.3
10°	1755.2	1757.8	1744.8	1721.4	1690.3	1661.7	1607.2	1526.7	1451.4	1430.6	1422.8
12.5°	1835.7	1838.3	1812.3	1770.8	1705.8	1537.1	1329.4	1137.2	989.2	947.7	939.9
15°	1931.7	1934.3	1887.6	1820.1	1622.8	1230.7	921.7	703.6	573.8	542.6	540.1
17.5°	2030.4	2025.2	1955.1	1825.3	1376.1	872.4	560.8	449.2	415.4	407.6	410.2
20°	2126.5	2110.9	2014.8	1729.2	1059.3	571.2	410.2	384.3	376.5	371.3	371.3
22.5°	2214.7	2183.6	2064.1	1539.7	742.6	410.2	366.1	360.9	350.5	342.7	340.1
25°	2303.0	2258.9	2095.3	1293.0	498.5	358.3	345.3	334.9	322.0	311.6	309.0
27.5°	2409.5	2347.2	2079.7	981.4	373.9	332.3	322.0	306.4	288.2	272.6	267.4
30°	2510.7	2440.6	1991.4	677.7	319.4	306.4	290.8	267.4	244.1	225.9	220.7
32.5°	2638.0	2557.5	1833.1	444.0	277.8	267.4	251.9	223.3	192.1	171.4	166.2
35°	2819.7	2728.8	1630.5	311.6	244.1	225.9	205.1	174.0	140.2	124.6	122.0
37.5°	3074.2	2952.1	1376.1	251.9	215.5	189.5	158.4	127.2	103.9	90.9	88.3
40°	3385.7	3198.8	1093.1	223.3	192.1	158.4	119.4	90.9	75.3	64.9	64.9
42.5°	3723.3	3429.9	804.9	205.1	168.8	129.8	88.3	64.9	54.5	49.3	46.7
45°	4071.2	3635.0	542.6	189.5	148.0	98.7	62.3	44.1	36.3	36.3	33.8
47.5°	4432.1	3772.6	350.5	171.4	124.6	72.7	41.5	31.2	26.0	26.0	26.0
50°	4790.4	3845.3	249.3	155.8	101.3	49.3	31.2	23.4	20.8	20.8	20.8
52.5°	5050.0	3798.5	199.9	135.0	77.9	36.3	23.4	18.2	15.6	15.6	15.6
55°	5275.9	3718.1	174.0	116.8	57.1	26.0	18.2	15.6	13.0	13.0	13.0
57.5°	5507.0	3614.2	155.8	98.7	41.5	18.2	13.0	10.4	10.4	10.4	10.4
60°	5717.3	3437.6	135.0	77.9	28.6	13.0	10.4	7.8	7.8	7.8	7.8
62.5°	5922.4	3287.1	116.8	59.7	20.8	10.4	5.2	5.2	2.6	2.6	2.6
65°	6039.3	3084.5	93.5	38.9	13.0	7.8	2.6	2.6	0.0	0.0	0.0
67.5°	6002.9	2843.1	64.9	23.4	7.8	5.2	2.6	0.0	0.0	0.0	0.0
70°	5751.0	2518.5	38.9	13.0	7.8	5.2	2.6	0.0	0.0	0.0	0.0
72.5°	4816.3	1864.2	23.4	10.4	5.2	2.6	0.0	0.0	0.0	0.0	0.0
75°	3217.0	856.8	13.0	7.8	2.6	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	1472.2	257.0	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	296.0	67.5	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.3	13.0	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°	5.2	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)