

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: P287044

Luminaire Tested: **PRV-C40-D-UNV-T4-BZ-7050-HSS**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P287044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-9)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 3/4/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-C40-D-UNV-T4-BZ-7050-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD, BRONZE
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15800 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 131
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

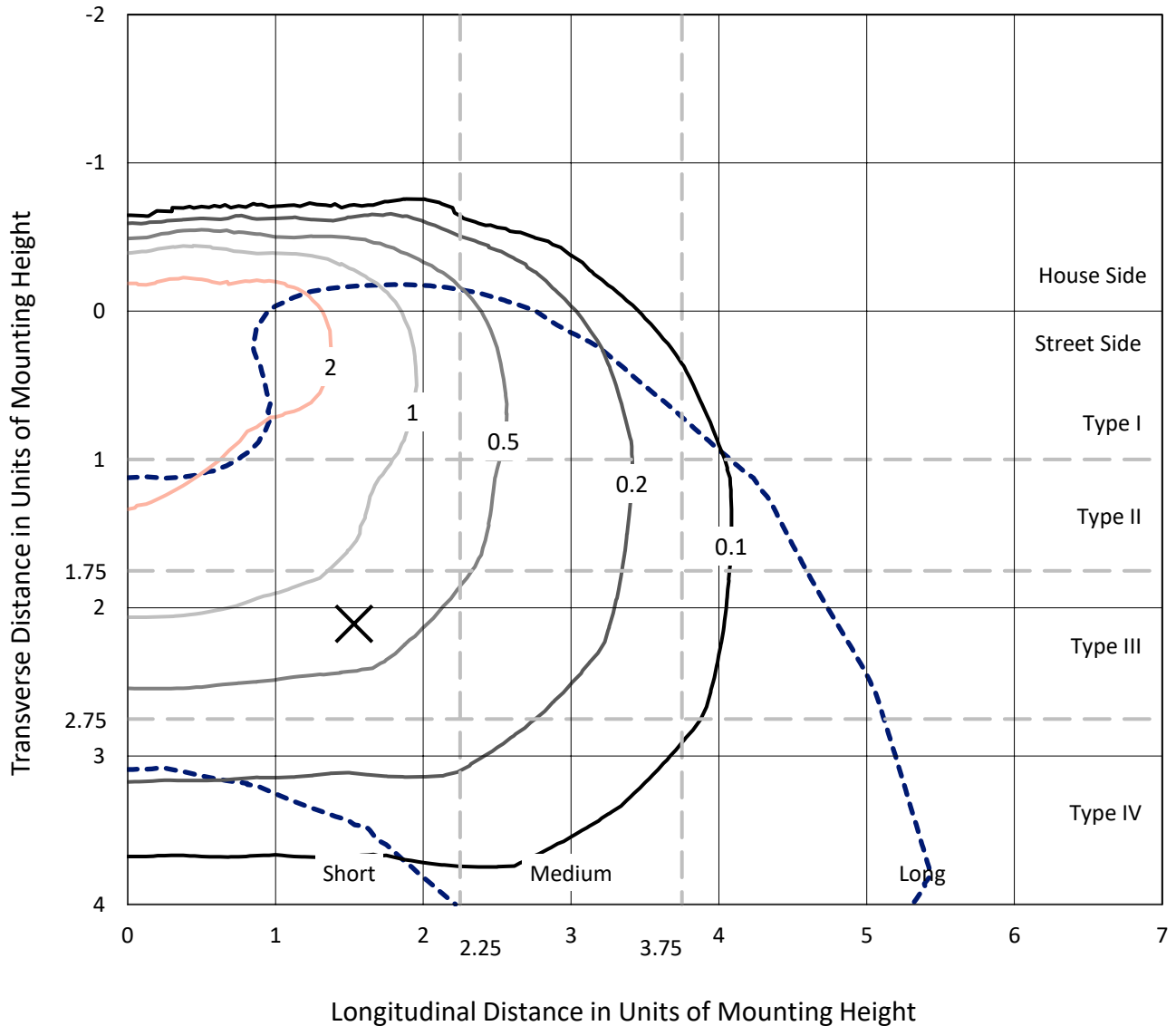




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Iso-Footcandle Lines of Horizontal Illumination

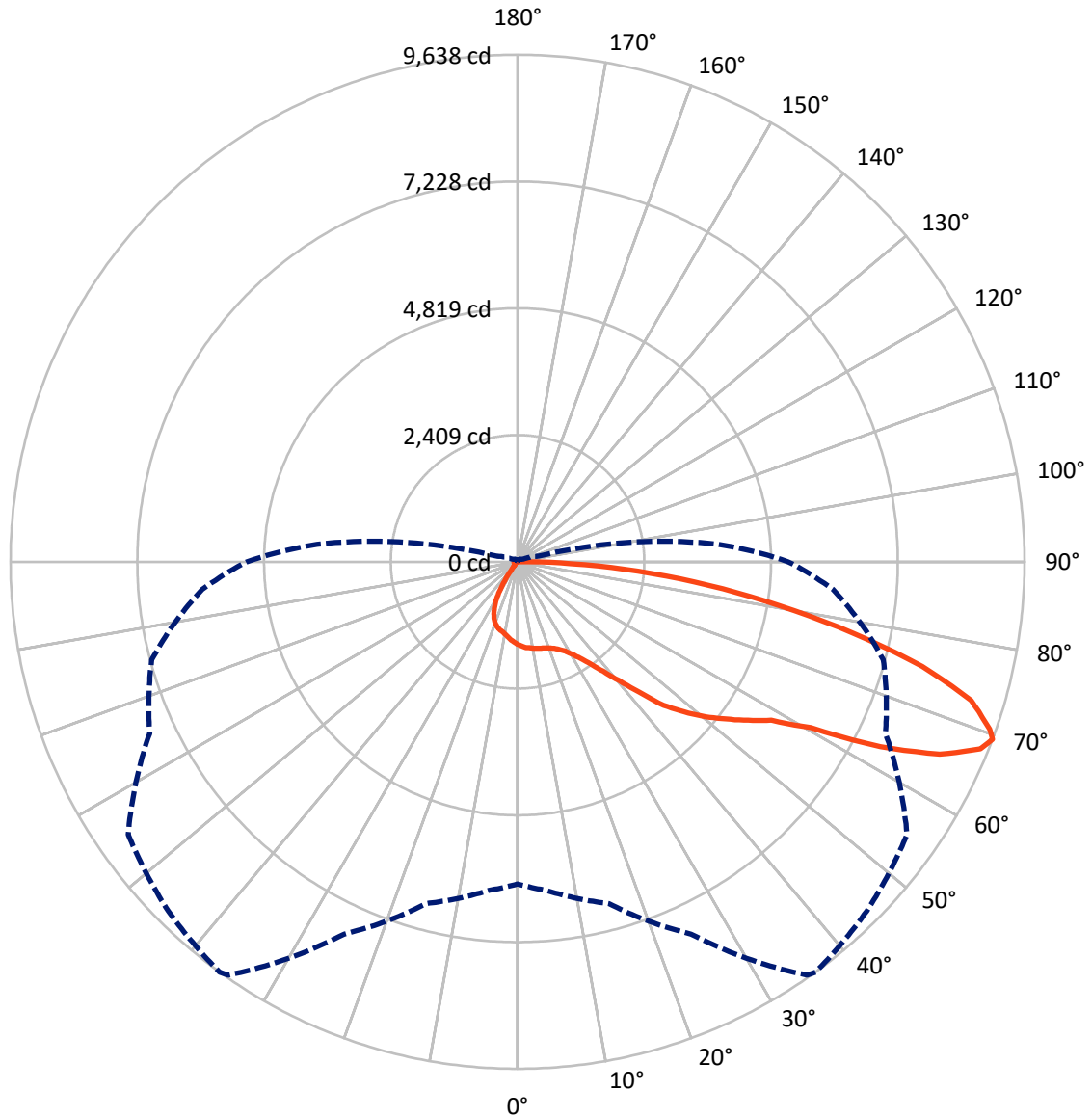
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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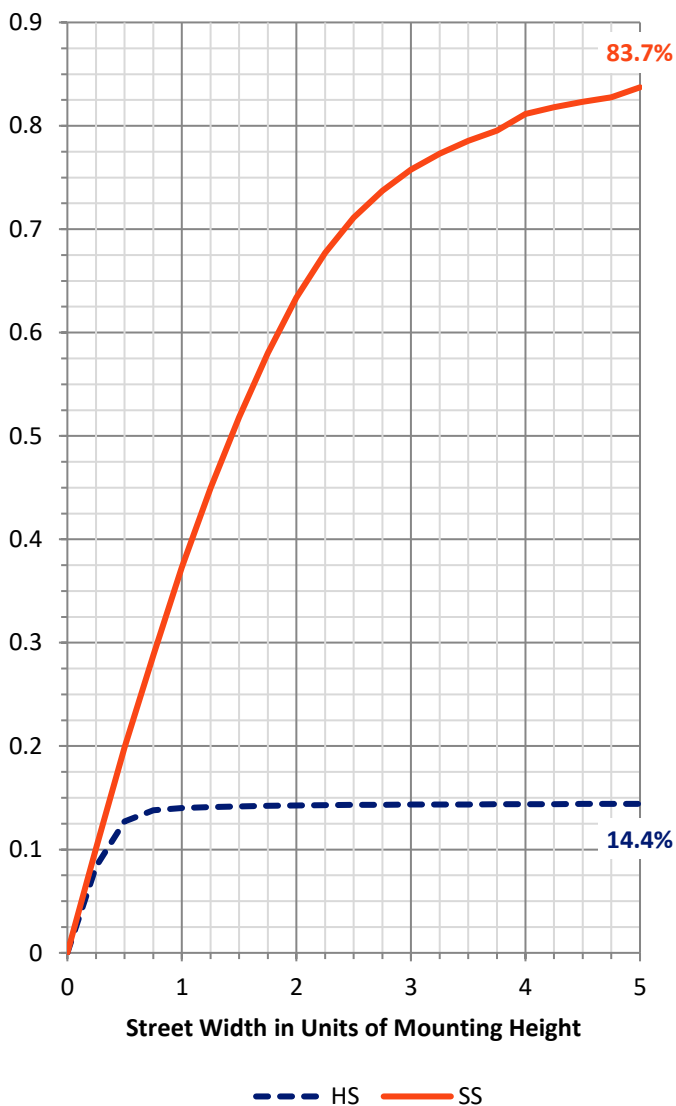
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2303.8	0.0	2303.8
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	13496.2	0.0	13496.2
	% Fixture	85.4	0.0	85.4
Total	Lumens	15800.0	0.0	15800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.4	0.9
10°-20°	446.1	2.8
20°-30°	747.5	4.7
30°-40°	1208.9	7.7
40°-50°	2132.3	13.5
50°-60°	3108.1	19.7
60°-70°	4105.1	26.0
70°-80°	3156.4	20.0
80°-90°	746.2	4.7
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°	15800.0	100.0
0°-180°	15800.0	100.0

Coefficient of Utilization



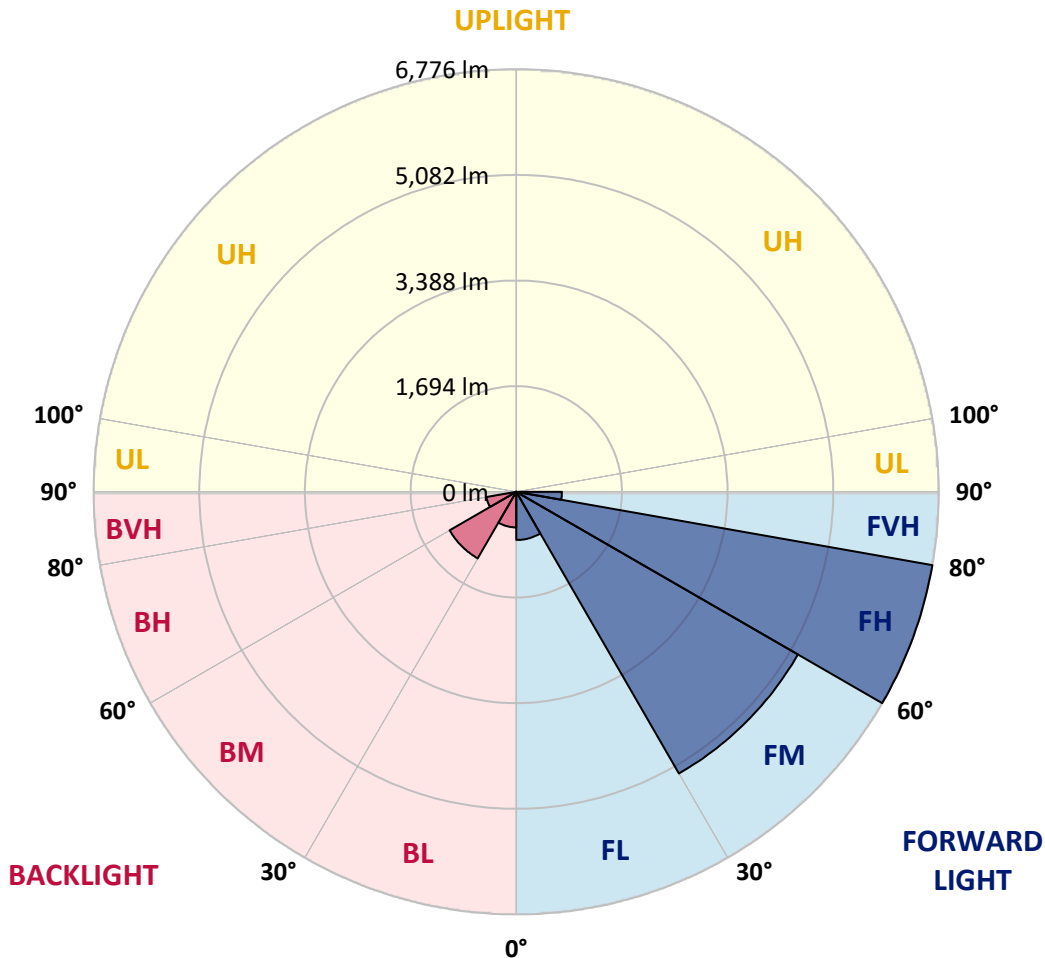
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.3	4.9			
FM (30°-60°)	5215.7	33.0			
FH (60°-80°)	6775.8	42.9			G3/7500
FVH (80°-90°)	732.4	4.6			G4/750
BL (0°-30°)	570.7	3.6	B2/1000		
BM (30°-60°)	1233.6	7.8	B2/2500		
BH (60°-80°)	485.7	3.1	B1/500		G1/500
BVH (80°-90°)	13.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3
2.5°	1632.3	1634.8	1627.2	1609.2	1605.0	1606.7	1608.4	1598.2	1587.1	1581.9	1570.0
5°	1661.3	1662.2	1658.7	1642.5	1638.3	1638.3	1636.6	1624.6	1613.5	1606.7	1589.6
7.5°	1669.0	1668.1	1669.8	1652.8	1657.0	1649.4	1654.5	1642.5	1632.3	1622.9	1607.5
10°	1680.9	1682.6	1680.9	1667.3	1669.0	1670.7	1669.8	1661.3	1660.4	1659.6	1633.1
12.5°	1674.9	1674.1	1679.2	1670.7	1682.6	1684.3	1703.1	1707.4	1711.6	1711.6	1684.3
15°	1670.7	1661.3	1682.6	1675.8	1700.5	1703.1	1731.3	1756.9	1762.0	1763.7	1753.4
17.5°	1676.7	1674.9	1704.8	1692.0	1727.0	1721.0	1748.3	1793.6	1817.4	1829.4	1835.4
20°	1702.3	1709.1	1733.8	1721.0	1750.0	1750.0	1779.9	1828.5	1873.8	1903.6	1909.6
22.5°	1741.5	1744.1	1773.1	1760.3	1783.3	1785.9	1811.5	1868.6	1930.1	1980.4	2006.0
25°	1783.3	1781.6	1805.5	1806.4	1837.1	1844.7	1866.9	1913.0	1994.1	2059.8	2129.7
27.5°	1844.7	1841.3	1869.5	1861.0	1918.1	1917.3	1942.9	1997.5	2088.8	2175.0	2281.6
30°	1944.6	1936.0	1953.1	1966.8	2031.6	2034.2	2057.2	2111.0	2203.1	2328.5	2458.2
32.5°	2105.8	2112.7	2111.0	2093.9	2175.8	2180.9	2237.2	2324.3	2418.1	2569.2	2721.0
35°	2445.4	2444.6	2398.5	2355.0	2362.7	2378.0	2451.4	2608.4	2800.4	3157.1	3291.0
37.5°	2867.8	2888.3	2807.2	2681.8	2640.8	2638.3	2702.3	2935.2	3249.2	3937.8	3991.6
40°	3426.7	3388.3	3290.2	3097.3	2994.1	2965.1	2986.4	3260.3	3742.4	4603.3	4552.1
42.5°	3806.4	3823.5	3715.9	3551.3	3397.7	3375.5	3325.2	3617.8	4276.5	5134.1	4990.7
45°	4262.0	4296.2	4177.6	4060.7	3905.4	3891.7	3815.8	3986.4	4790.2	5527.4	5333.7
47.5°	4658.8	4682.7	4493.3	4384.1	4272.3	4261.2	4189.5	4358.5	5236.5	5850.8	5614.5
50°	5086.3	5105.9	4899.4	4744.1	4638.3	4628.1	4588.0	4775.7	5688.7	6156.3	5846.5
52.5°	5631.5	5558.1	5307.3	5095.7	4977.9	4964.3	4983.9	5192.1	6117.0	6376.4	6032.5
55°	6269.8	6070.1	5749.3	5484.8	5309.0	5318.4	5341.4	5615.3	6481.4	6589.7	6172.5
57.5°	6654.6	6665.7	6425.0	6035.1	5701.5	5682.7	5665.6	5999.3	6777.4	6826.1	6308.2
60°	7169.1	7204.1	7172.5	6931.9	6482.2	6402.0	6123.8	6427.6	7091.4	7017.2	6389.2
62.5°	7559.9	7617.1	7801.4	7652.9	7704.9	7739.1	6973.7	6940.4	7379.8	7147.8	6406.3
65°	7470.3	7524.9	7902.9	8194.7	8744.2	8816.7	8623.9	7593.2	7605.1	7205.8	6351.7
67.5°	6792.0	6848.3	7309.0	8094.9	9406.3	9488.3	9282.6	8726.3	7716.9	7208.3	6212.6
69°	6123.8	6268.9	6724.5	7807.3	9591.5	9637.6	9387.6	9035.2	7715.2	7198.1	6016.3
70°	5724.5	5840.6	6357.6	7475.4	9495.1	9517.3	9324.4	9159.7	7686.2	7108.5	5832.0
72.5°	4602.5	4576.9	5127.2	6337.2	9028.3	9014.7	9036.0	8992.5	7633.3	6780.9	5054.7
75°	3336.2	3345.6	3855.0	4986.5	7850.0	7949.8	8376.5	8635.0	7118.7	5913.9	3719.4
77.5°	2371.2	2390.8	2828.6	3817.5	6470.3	6517.2	7299.6	7574.4	5989.9	4652.8	2027.3
80°	1587.1	1604.1	2013.7	2814.9	4942.1	5048.7	5902.0	5963.4	4533.4	2879.8	366.9
82.5°	992.3	1000.9	1318.3	2005.2	3605.9	3657.9	4053.0	3934.4	2356.7	641.7	109.2
85°	569.1	579.4	808.0	1269.7	2277.4	2297.0	2560.6	1946.3	564.9	86.2	59.7
87.5°	163.0	174.9	334.5	547.8	1027.3	1019.6	955.7	637.4	91.3	39.2	28.2
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°	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3	1574.3
2.5°	1560.6	1573.4	1558.1	1547.0	1534.2	1535.9	1535.9	1521.4	1521.4	1541.8	1544.4
5°	1580.2	1589.6	1563.2	1541.8	1514.5	1508.6	1491.5	1474.4	1468.5	1486.4	1488.9
7.5°	1598.2	1593.0	1561.5	1527.3	1491.5	1463.3	1442.0	1413.9	1401.1	1421.5	1424.9
10°	1616.1	1600.7	1568.3	1527.3	1470.2	1429.2	1397.6	1347.3	1333.6	1343.9	1349.0
12.5°	1665.6	1645.1	1607.5	1536.7	1471.9	1416.4	1355.0	1291.8	1259.4	1271.4	1278.2
15°	1738.9	1708.2	1669.0	1581.9	1492.4	1412.1	1328.5	1228.7	1169.8	1163.0	1164.7
17.5°	1826.0	1793.6	1741.5	1635.7	1521.4	1412.1	1288.4	1163.0	1065.7	1037.6	1041.0
20°	1913.9	1878.0	1836.2	1698.0	1548.7	1390.8	1238.9	1075.1	936.0	872.0	872.0
22.5°	2014.5	1988.9	1919.0	1747.5	1558.1	1357.5	1163.0	956.5	785.9	692.0	688.6
25°	2145.1	2122.1	1993.2	1786.7	1550.4	1315.7	1064.9	816.6	605.0	509.4	504.3
27.5°	2291.0	2245.8	2065.7	1815.7	1523.9	1248.3	934.3	639.1	421.5	331.1	326.8
30°	2453.1	2387.4	2121.2	1810.6	1475.3	1134.8	780.7	429.2	245.7	186.0	186.0
32.5°	2686.1	2566.6	2186.9	1798.7	1407.9	999.2	573.4	254.3	122.9	94.7	94.7
35°	3140.9	2916.4	2286.7	1766.2	1298.7	820.0	360.9	114.3	67.4	66.6	66.6
37.5°	3750.9	3367.8	2447.1	1718.5	1148.5	596.4	180.0	63.1	63.1	64.8	64.0
40°	4285.9	3854.2	2661.3	1645.9	983.8	376.3	81.9	60.6	64.0	66.6	66.6
42.5°	4683.5	4229.6	2868.7	1540.1	785.9	192.0	68.3	58.9	61.4	62.3	63.1
45°	5020.6	4545.3	3034.2	1406.2	575.1	91.3	68.3	58.0	58.0	58.0	58.9
47.5°	5279.1	4776.5	3147.7	1248.3	357.5	76.8	71.7	57.2	53.8	52.0	52.9
50°	5481.3	4937.8	3187.8	1072.5	176.6	77.6	70.0	53.8	46.9	47.8	48.6
52.5°	5623.8	5068.4	3145.1	853.3	91.3	81.9	70.8	52.0	41.8	44.4	44.4
55°	5756.1	5100.8	3036.8	606.7	81.9	82.8	70.8	47.8	35.8	41.0	43.5
57.5°	5789.4	5099.9	2867.0	381.4	87.9	78.5	67.4	46.9	34.1	41.0	42.7
60°	5838.9	5058.1	2634.0	232.9	92.2	72.5	63.1	44.4	32.4	34.1	35.8
62.5°	5785.1	4986.5	2285.0	154.4	88.7	67.4	61.4	42.7	28.2	25.6	24.7
65°	5680.2	4746.7	1724.4	124.6	82.8	65.7	55.5	37.5	23.0	16.2	15.4
67.5°	5435.3	4291.0	912.1	117.7	77.6	64.8	49.5	35.0	18.8	9.4	8.5
69°	5146.9	3829.4	413.8	119.5	90.4	64.8	50.3	30.7	17.1	6.8	6.0
70°	4845.7	3407.9	188.6	116.0	98.1	68.3	49.5	28.2	15.4	6.0	5.1
72.5°	3737.3	2118.6	128.8	103.2	109.2	66.6	49.5	26.5	14.5	3.4	2.6
75°	2218.5	525.6	116.0	81.9	104.1	81.1	59.7	29.0	12.8	1.7	0.0
77.5°	575.1	146.8	98.1	62.3	92.2	91.3	69.1	29.0	12.8	0.0	0.0
80°	148.5	112.6	84.5	40.1	72.5	88.7	56.3	32.4	10.2	0.0	0.0
82.5°	88.7	81.9	92.2	24.7	58.0	59.7	33.3	23.0	11.1	0.0	0.0
85°	51.2	70.8	64.8	18.8	11.1	6.0	13.7	25.6	11.1	0.0	0.0
87.5°	29.9	38.4	14.5	2.6	2.6	1.7	0.9	3.4	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)