

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: P287036

Luminaire Tested: **PRV-C40-D-UNV-T4-BZ-7030-HSS**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P287036
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-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K 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: 15237 lumens
Efficiency: N/A
Efficacy: 116.3 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

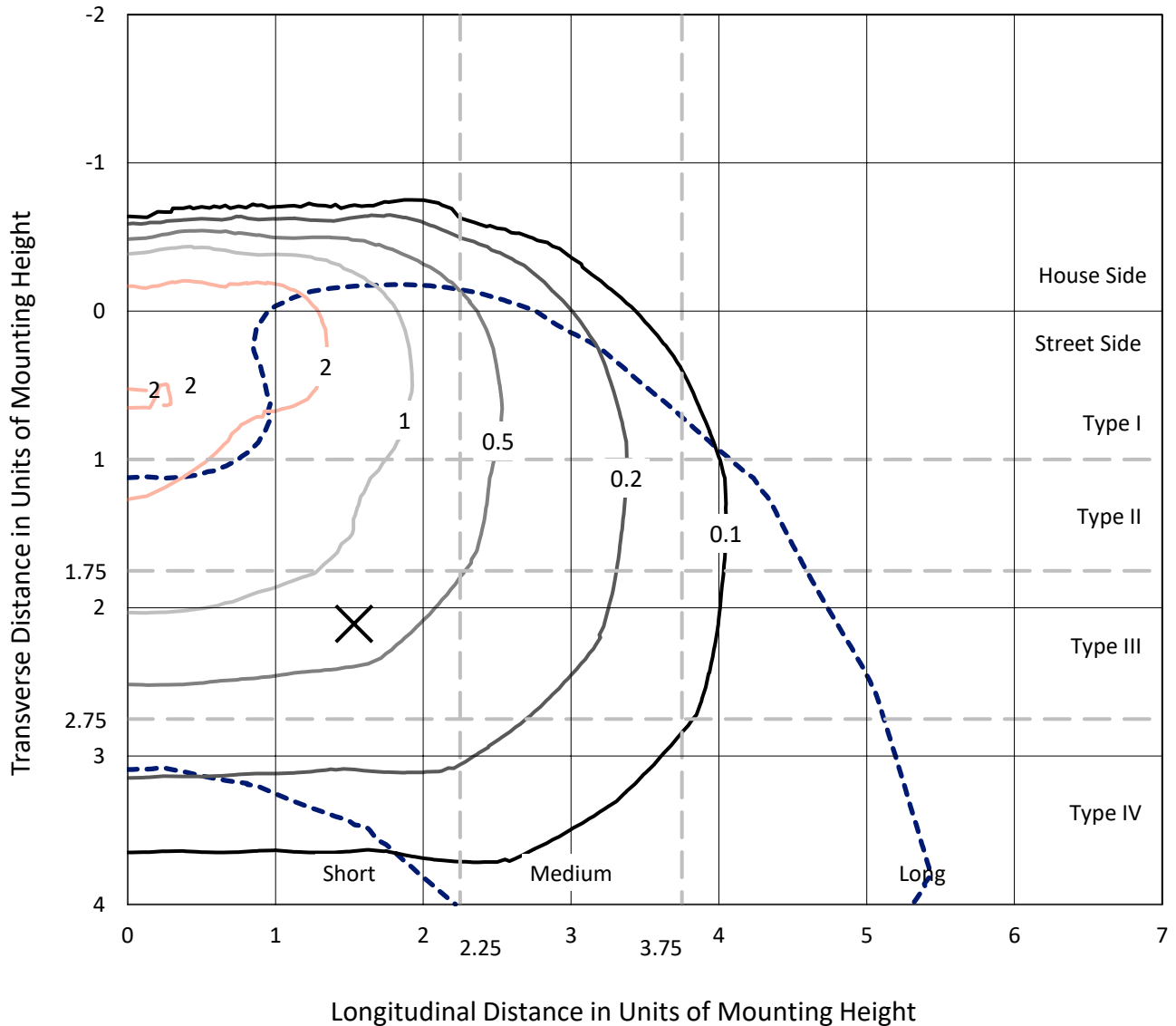
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

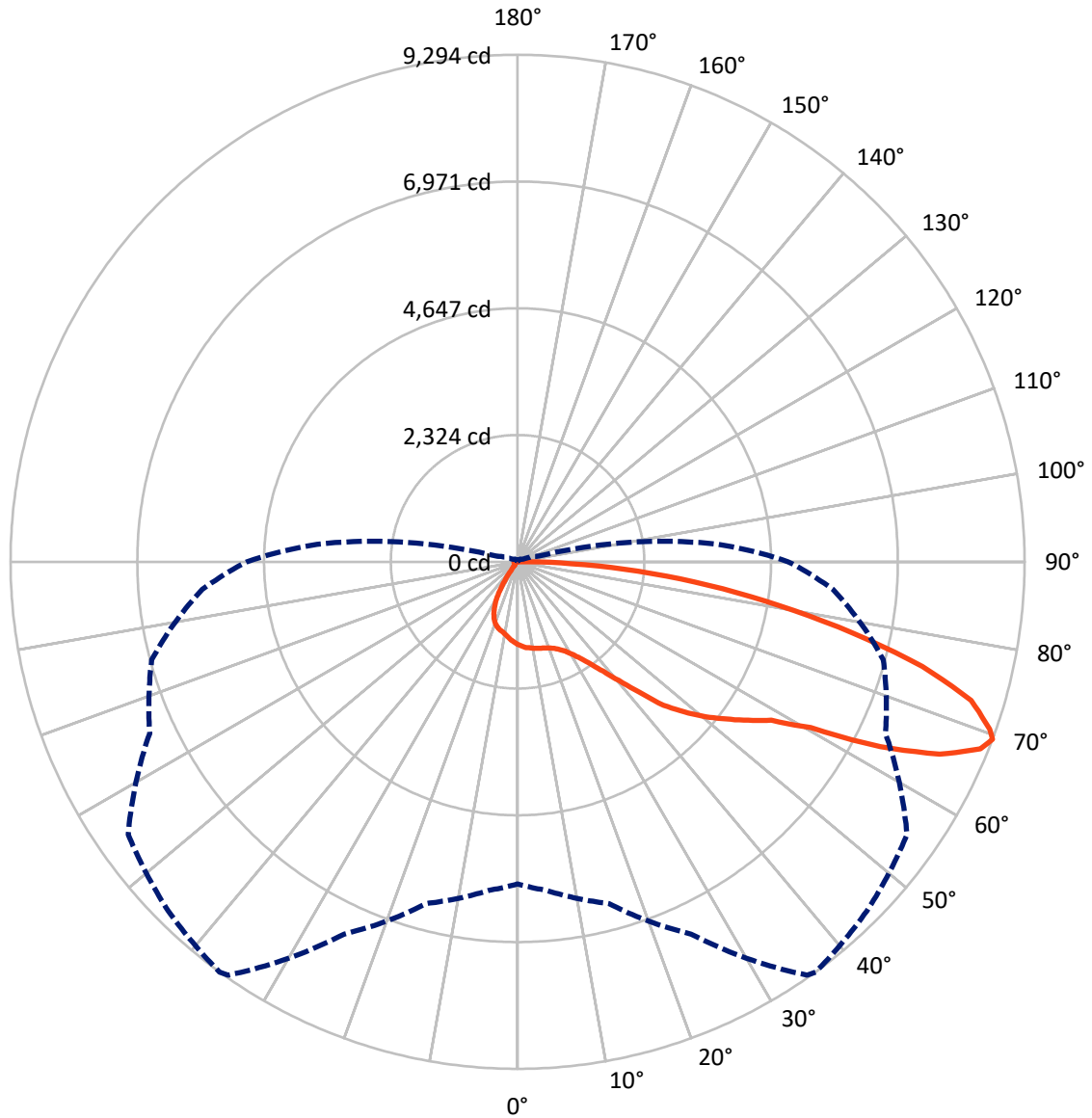
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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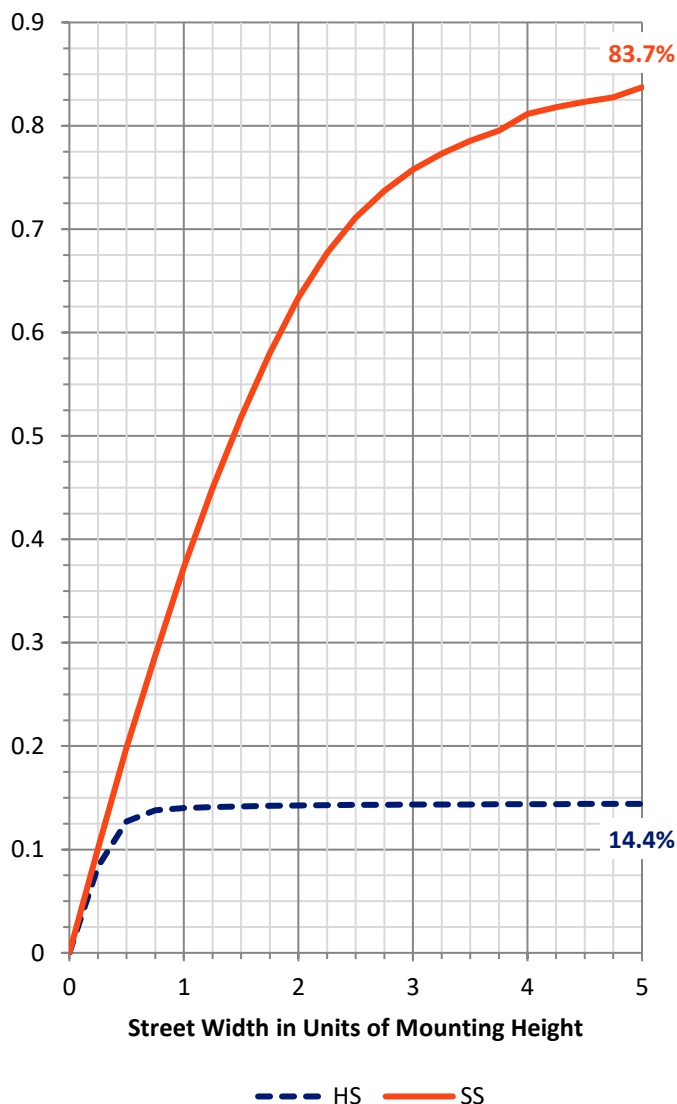
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2221.7	0.0	2221.7
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	13015.3	0.0	13015.3
	% Fixture	85.4	0.0	85.4
Total	Lumens	15237.0	0.0	15237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	0.9
10°-20°	430.2	2.8
20°-30°	720.9	4.7
30°-40°	1165.8	7.7
40°-50°	2056.3	13.5
50°-60°	2997.3	19.7
60°-70°	3958.8	26.0
70°-80°	3044.0	20.0
80°-90°	719.6	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°	15237.0	100.0
0°-180°	15237.0	100.0

Coefficient of Utilization

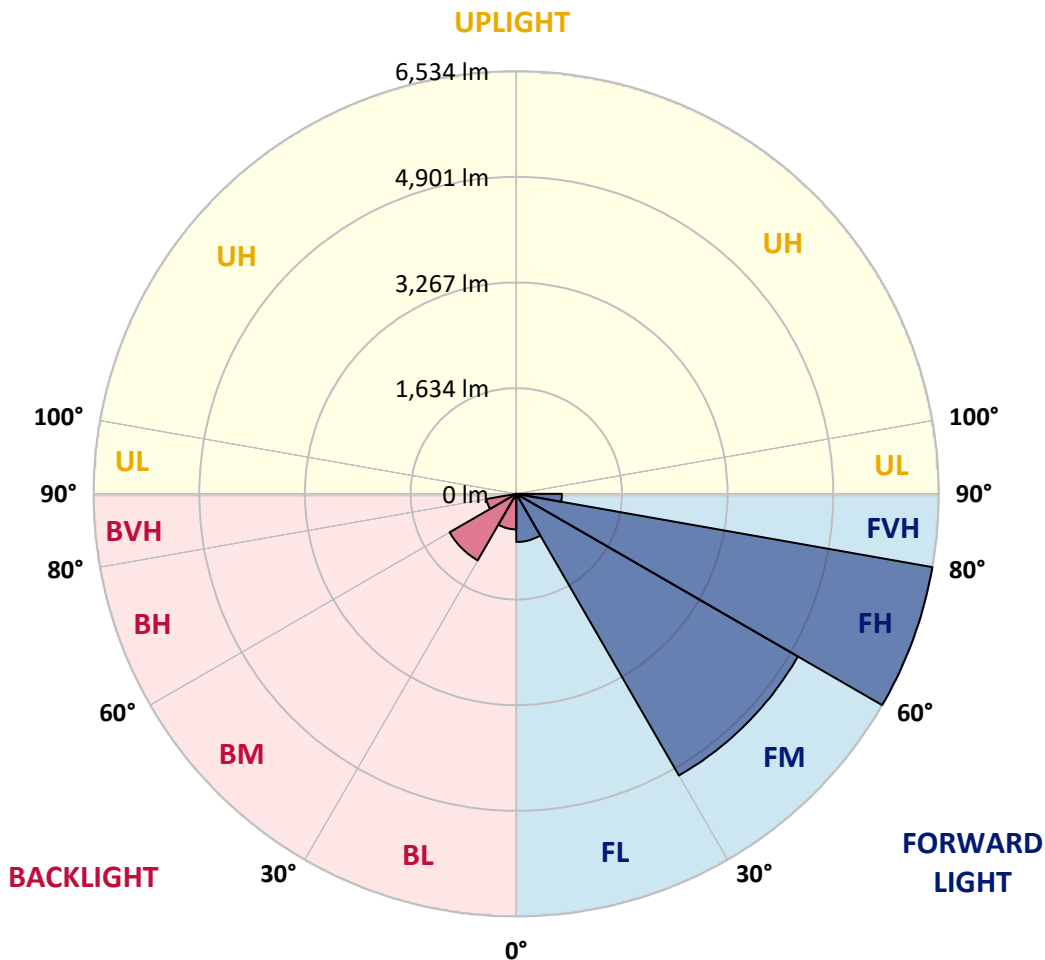


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	744.8	4.9			
FM (30°-60°)	5029.8	33.0			
FH (60°-80°)	6534.4	42.9			G3/7500
FVH (80°-90°)	706.3	4.6			G4/750
BL (0°-30°)	550.3	3.6	B2/1000		
BM (30°-60°)	1189.6	7.8	B2/2500		
BH (60°-80°)	468.4	3.1	B1/500		G1/500
BVH (80°-90°)	13.4	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°	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2
2.5°	1574.1	1576.6	1569.2	1551.9	1547.8	1549.4	1551.1	1541.2	1530.5	1525.6	1514.1
5°	1602.1	1602.9	1599.6	1584.0	1579.9	1579.9	1578.2	1566.7	1556.0	1549.4	1533.0
7.5°	1609.5	1608.7	1610.3	1593.9	1598.0	1590.6	1595.5	1584.0	1574.1	1565.1	1550.3
10°	1621.0	1622.7	1621.0	1607.9	1609.5	1611.2	1610.3	1602.1	1601.3	1600.5	1574.9
12.5°	1615.3	1614.4	1619.4	1611.2	1622.7	1624.3	1642.4	1646.5	1650.6	1650.6	1624.3
15°	1611.2	1602.1	1622.7	1616.1	1640.0	1642.4	1669.6	1694.3	1699.2	1700.8	1691.0
17.5°	1616.9	1615.3	1644.1	1631.7	1665.5	1659.7	1686.0	1729.6	1752.7	1764.2	1770.0
20°	1641.6	1648.2	1672.0	1659.7	1687.7	1687.7	1716.5	1763.4	1807.0	1835.8	1841.6
22.5°	1679.4	1681.9	1709.9	1697.6	1719.8	1722.2	1746.9	1802.1	1861.3	1909.8	1934.5
25°	1719.8	1718.1	1741.2	1742.0	1771.6	1779.0	1800.4	1844.8	1923.0	1986.4	2053.8
27.5°	1779.0	1775.7	1802.9	1794.6	1849.8	1849.0	1873.6	1926.3	2014.4	2097.5	2200.3
30°	1875.3	1867.1	1883.5	1896.7	1959.2	1961.7	1983.9	2035.7	2124.6	2245.6	2370.6
32.5°	2030.8	2037.4	2035.7	2019.3	2098.3	2103.2	2157.5	2241.5	2332.0	2477.6	2624.1
35°	2358.3	2357.5	2313.0	2271.1	2278.5	2293.3	2364.1	2515.5	2700.6	3044.6	3173.8
37.5°	2765.6	2785.4	2707.2	2586.2	2546.7	2544.3	2606.0	2830.6	3133.4	3797.5	3849.3
40°	3304.6	3267.6	3172.9	2987.0	2887.4	2859.4	2880.0	3144.1	3609.0	4439.3	4389.9
42.5°	3670.8	3687.2	3583.5	3424.7	3276.6	3255.2	3206.7	3488.9	4124.2	4951.1	4812.9
45°	4110.2	4143.1	4028.7	3916.0	3766.2	3753.0	3679.8	3844.4	4619.5	5330.5	5143.7
47.5°	4492.8	4515.8	4333.2	4227.8	4120.0	4109.3	4040.2	4203.1	5049.9	5642.3	5414.4
50°	4905.0	4924.0	4724.8	4575.1	4473.0	4463.2	4424.5	4605.5	5486.0	5936.9	5638.2
52.5°	5430.8	5360.1	5118.2	4914.1	4800.5	4787.4	4806.3	5007.1	5899.1	6149.2	5817.6
55°	6046.3	5853.8	5544.4	5289.3	5119.8	5128.9	5151.1	5415.2	6250.4	6354.9	5952.5
57.5°	6417.5	6428.2	6196.1	5820.1	5498.3	5480.2	5463.8	5785.5	6535.9	6582.8	6083.4
60°	6913.6	6947.4	6916.9	6684.9	6251.2	6173.9	5905.6	6198.6	6838.8	6767.2	6161.5
62.5°	7290.5	7345.6	7523.4	7380.2	7430.4	7463.3	6725.2	6693.1	7116.9	6893.1	6178.0
65°	7204.1	7256.8	7621.3	7902.7	8432.6	8502.6	8316.6	7322.6	7334.1	6949.0	6125.3
67.5°	6549.9	6604.2	7048.6	7806.4	9071.2	9150.2	8951.8	8415.3	7441.9	6951.5	5991.2
69°	5905.6	6045.5	6484.9	7529.1	9249.7	9294.2	9053.1	8713.2	7440.3	6941.6	5802.0
70°	5520.5	5632.4	6131.1	7209.0	9156.7	9178.1	8992.2	8833.4	7412.3	6855.2	5624.2
72.5°	4438.5	4413.8	4944.5	6111.4	8706.6	8693.5	8714.0	8672.1	7361.3	6539.2	4874.6
75°	3217.4	3226.4	3717.7	4808.8	7570.3	7666.5	8078.0	8327.3	6865.1	5703.2	3586.8
77.5°	2286.7	2305.6	2727.8	3681.5	6239.7	6285.0	7039.5	7304.5	5776.4	4487.0	1955.1
80°	1530.5	1547.0	1941.9	2714.6	4766.0	4868.8	5691.7	5750.9	4371.8	2777.1	353.8
82.5°	957.0	965.2	1271.3	1933.7	3477.4	3527.6	3908.6	3794.2	2272.7	618.8	105.3
85°	548.8	558.7	779.2	1224.4	2196.2	2215.1	2469.4	1876.9	544.7	83.1	57.6
87.5°	157.2	168.7	322.6	528.3	990.7	983.3	921.6	614.7	88.0	37.9	27.2
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°	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2	1518.2
2.5°	1505.0	1517.3	1502.5	1491.8	1479.5	1481.1	1481.1	1467.2	1467.2	1486.9	1489.4
5°	1523.9	1533.0	1507.5	1486.9	1460.6	1454.8	1438.4	1421.9	1416.1	1433.4	1435.9
7.5°	1541.2	1536.3	1505.8	1472.9	1438.4	1411.2	1390.6	1363.5	1351.1	1370.9	1374.2
10°	1558.5	1543.7	1512.4	1472.9	1417.8	1378.3	1347.8	1299.3	1286.1	1296.0	1300.9
12.5°	1606.2	1586.5	1550.3	1482.0	1419.4	1365.9	1306.7	1245.8	1214.5	1226.1	1232.6
15°	1677.0	1647.4	1609.5	1525.6	1439.2	1361.8	1281.2	1184.9	1128.1	1121.6	1123.2
17.5°	1760.9	1729.6	1679.4	1577.4	1467.2	1361.8	1242.5	1121.6	1027.7	1000.6	1003.9
20°	1845.7	1811.1	1770.8	1637.5	1493.5	1341.3	1194.8	1036.8	902.7	841.0	841.0
22.5°	1942.8	1918.1	1850.6	1685.2	1502.5	1309.2	1121.6	922.4	757.9	667.3	664.0
25°	2068.7	2046.4	1922.2	1723.1	1495.1	1268.8	1026.9	787.5	583.4	491.2	486.3
27.5°	2209.4	2165.8	1992.1	1751.0	1469.6	1203.8	901.0	616.3	406.5	319.3	315.2
30°	2365.7	2302.4	2045.6	1746.1	1422.7	1094.4	752.9	413.9	237.0	179.4	179.4
32.5°	2590.4	2475.2	2109.0	1734.6	1357.7	963.6	553.0	245.2	118.5	91.3	91.3
35°	3028.9	2812.5	2205.3	1703.3	1252.4	790.8	348.1	110.3	65.0	64.2	64.2
37.5°	3617.3	3247.8	2360.0	1657.2	1107.6	575.2	173.6	60.9	60.9	62.5	61.7
40°	4133.2	3716.8	2566.5	1587.3	948.8	362.9	79.0	58.4	61.7	64.2	64.2
42.5°	4516.7	4078.9	2766.4	1485.3	757.9	185.1	65.8	56.8	59.2	60.1	60.9
45°	4841.7	4383.4	2926.1	1356.1	554.6	88.0	65.8	56.0	56.0	56.0	56.8
47.5°	5091.0	4606.3	3035.5	1203.8	344.8	74.1	69.1	55.1	51.8	50.2	51.0
50°	5286.0	4761.9	3074.2	1034.3	170.3	74.9	67.5	51.8	45.3	46.1	46.9
52.5°	5423.4	4887.8	3033.0	822.9	88.0	79.0	68.3	50.2	40.3	42.8	42.8
55°	5551.0	4919.0	2928.5	585.1	79.0	79.8	68.3	46.1	34.6	39.5	42.0
57.5°	5583.1	4918.2	2764.8	367.8	84.8	75.7	65.0	45.3	32.9	39.5	41.1
60°	5630.8	4877.9	2540.2	224.6	88.9	69.9	60.9	42.8	31.3	32.9	34.6
62.5°	5579.0	4808.8	2203.6	148.9	85.6	65.0	59.2	41.1	27.2	24.7	23.9
65°	5477.8	4577.5	1663.0	120.1	79.8	63.4	53.5	36.2	22.2	15.6	14.8
67.5°	5241.6	4138.1	879.6	113.6	74.9	62.5	47.7	33.7	18.1	9.1	8.2
69°	4963.5	3693.0	399.1	115.2	87.2	62.5	48.5	29.6	16.5	6.6	5.8
70°	4673.0	3286.5	181.9	111.9	94.6	65.8	47.7	27.2	14.8	5.8	4.9
72.5°	3604.1	2043.2	124.3	99.6	105.3	64.2	47.7	25.5	14.0	3.3	2.5
75°	2139.4	506.9	111.9	79.0	100.4	78.2	57.6	28.0	12.3	1.6	0.0
77.5°	554.6	141.5	94.6	60.1	88.9	88.0	66.7	28.0	12.3	0.0	0.0
80°	143.2	108.6	81.5	38.7	69.9	85.6	54.3	31.3	9.9	0.0	0.0
82.5°	85.6	79.0	88.9	23.9	56.0	57.6	32.1	22.2	10.7	0.0	0.0
85°	49.4	68.3	62.5	18.1	10.7	5.8	13.2	24.7	10.7	0.0	0.0
87.5°	28.8	37.0	14.0	2.5	2.5	1.6	0.8	3.3	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)