

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: P287028

Luminaire Tested: **PRV-C40-D-UNV-T3-BZ-7050-HSS**

Issue Date: 3/4/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P287028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-7)  
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-T3-BZ-7050-HSS  
Description: PREVAIL AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, BRONZE  
PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15856 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4

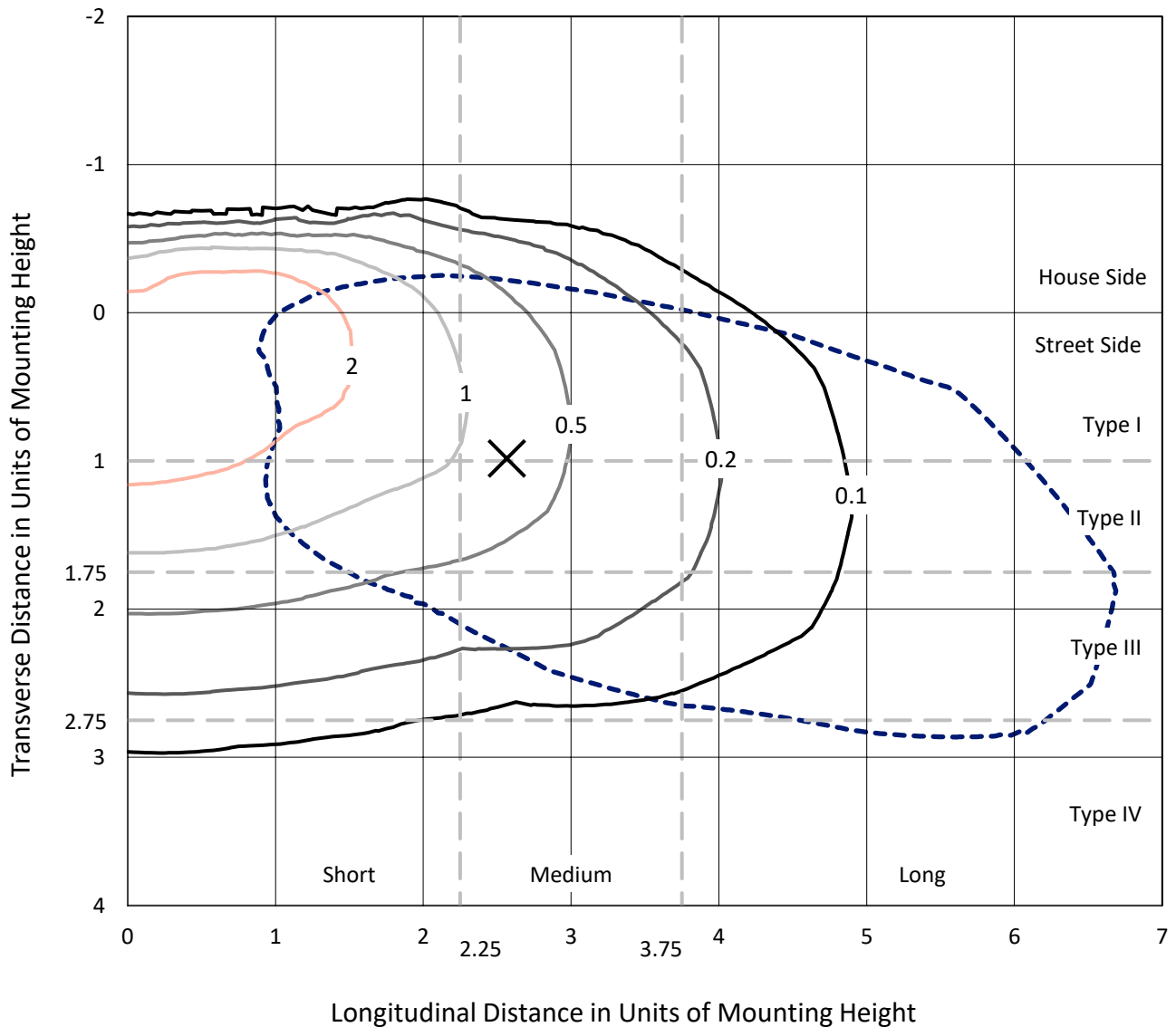
Input Watts (W): 131  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

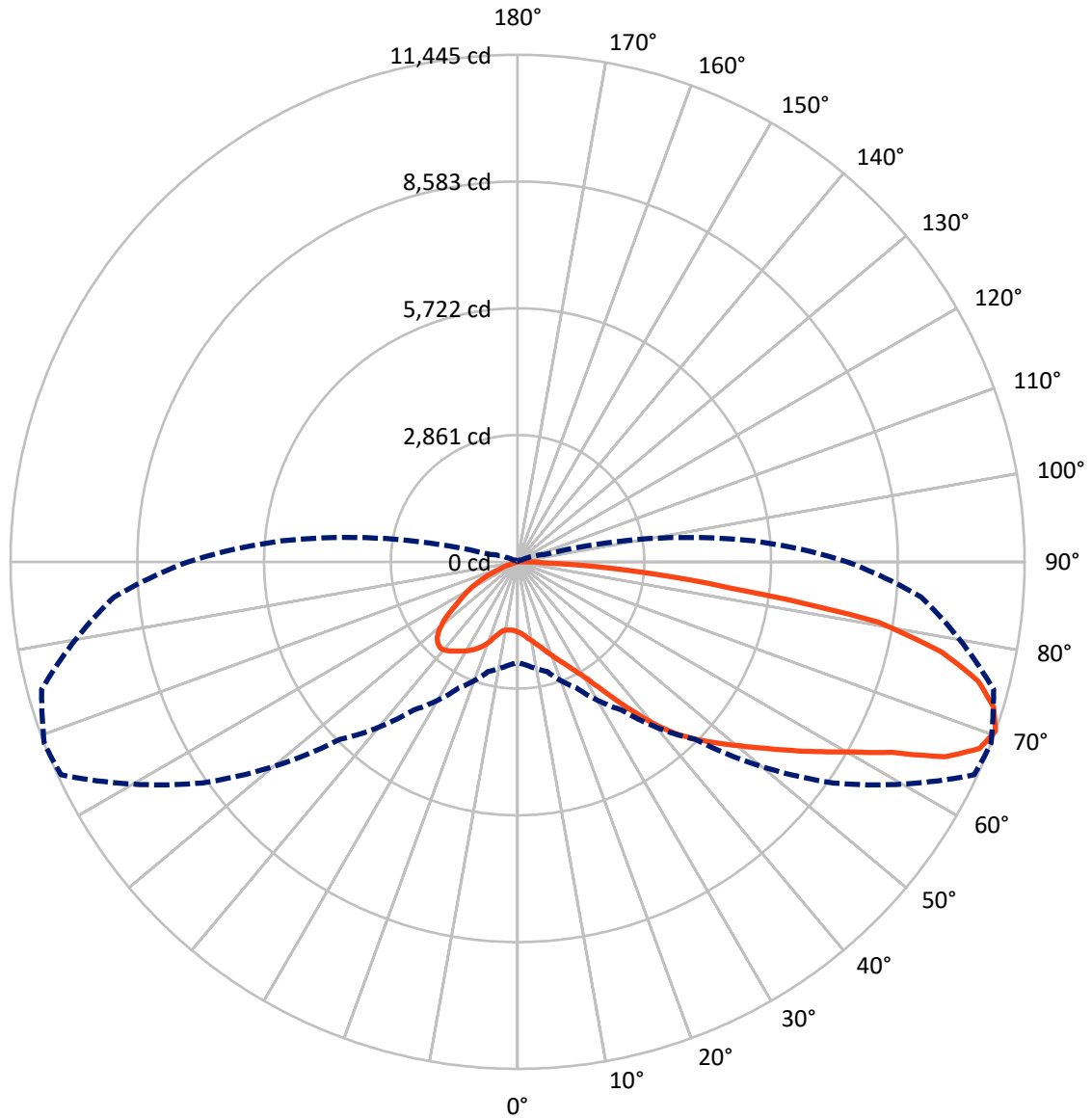
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 69-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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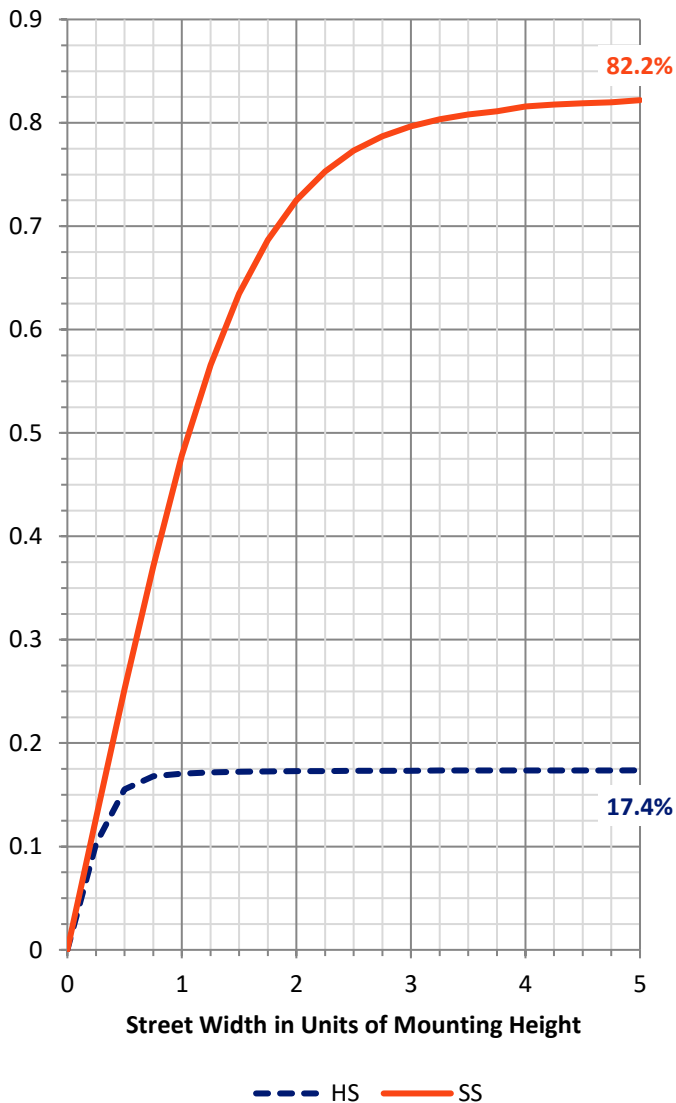
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2785.4	0.0	2785.4
	% Fixture	17.6	0.0	17.6
<b>Street Side</b>	Lumens	13070.6	0.0	13070.6
	% Fixture	82.4	0.0	82.4
<b>Total</b>	Lumens	15856.0	0.0	15856.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.2	1.0
10°-20°	489.0	3.1
20°-30°	896.9	5.7
30°-40°	1540.5	9.7
40°-50°	2407.5	15.2
50°-60°	3215.2	20.3
60°-70°	3762.7	23.7
70°-80°	2826.5	17.8
80°-90°	563.5	3.6
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°	15856.0	100.0
0°-180°	15856.0	100.0

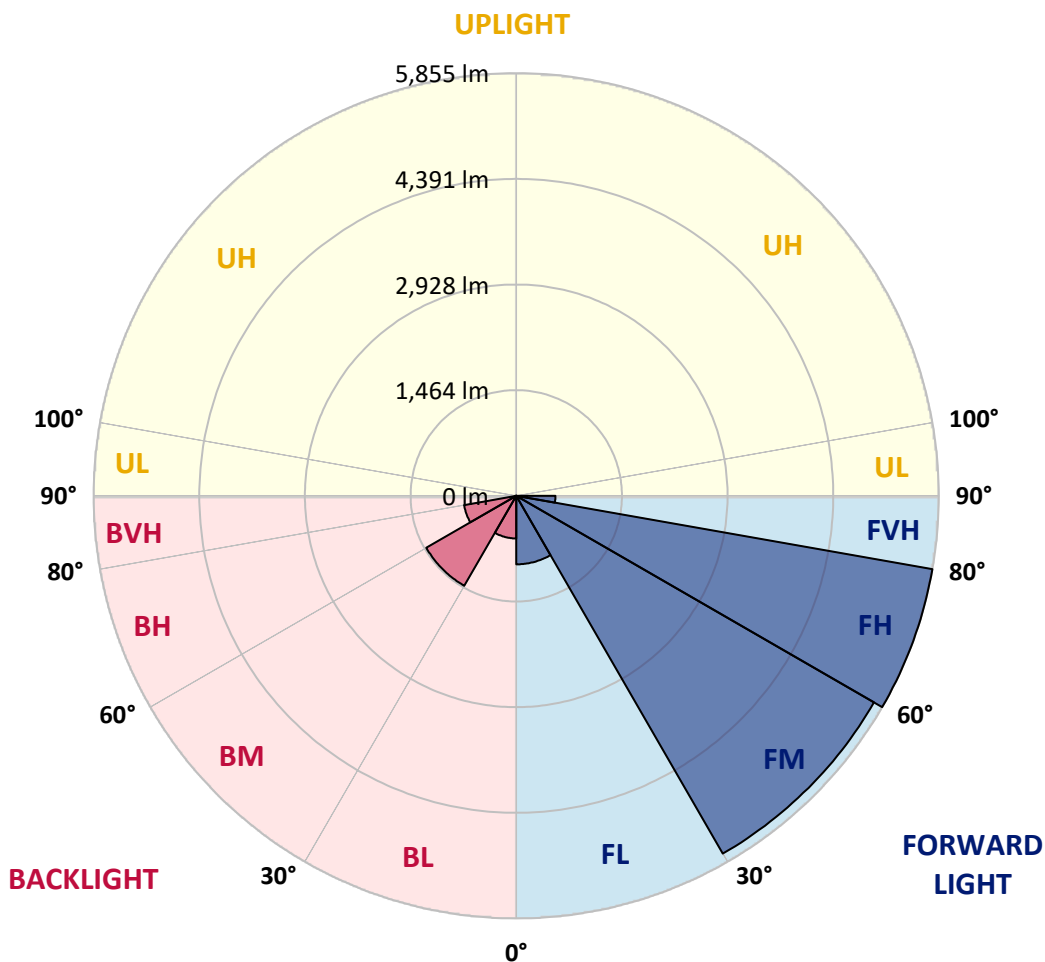


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.1	6.0			
FM (30°-60°)	5723.8	36.1			
FH (60°-80°)	5855.2	36.9			G3/7500
FVH (80°-90°)	542.6	3.4			G4/750
BL (0°-30°)	591.0	3.7	B2/1000		
BM (30°-60°)	1439.4	9.1	B2/2500		
BH (60°-80°)	734.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	20.9	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4
2.5°	1695.5	1707.5	1699.8	1672.5	1667.4	1665.6	1647.7	1632.4	1623.0	1620.4	1591.4
5°	1787.7	1797.1	1794.5	1763.8	1755.2	1735.6	1720.3	1680.2	1674.2	1665.6	1630.7
7.5°	1856.8	1858.5	1873.9	1848.3	1839.7	1815.8	1793.6	1757.0	1750.1	1736.5	1687.0
10°	1920.8	1932.7	1941.3	1908.8	1922.5	1892.6	1866.2	1840.6	1812.4	1811.6	1749.3
12.5°	1961.7	1968.6	1987.3	1961.7	1981.4	1980.5	1956.6	1927.6	1911.4	1896.9	1826.1
15°	1987.3	1995.0	2019.8	2039.4	2046.2	2057.3	2056.5	2034.3	2006.1	2001.0	1927.6
17.5°	2027.4	2034.3	2053.0	2084.6	2108.5	2133.3	2152.9	2154.6	2137.5	2131.6	2064.1
20°	2088.0	2087.2	2097.4	2115.3	2160.6	2215.2	2258.7	2274.9	2268.1	2267.2	2217.7
22.5°	2152.0	2148.6	2158.9	2167.4	2214.3	2305.6	2377.3	2418.3	2420.8	2415.7	2407.2
25°	2254.4	2237.4	2236.5	2245.9	2308.2	2414.0	2507.9	2577.8	2584.7	2598.3	2674.3
27.5°	2514.7	2512.1	2436.2	2371.3	2413.1	2533.5	2671.7	2763.9	2795.4	2847.5	2990.8
30°	2889.3	2874.8	2843.2	2692.2	2579.5	2689.6	2863.7	3006.2	3039.5	3224.6	3352.6
32.5°	3225.5	3209.3	3196.5	3056.5	2901.2	2876.5	3051.4	3294.6	3390.2	3676.9	3772.5
35°	3519.0	3509.6	3509.6	3415.8	3258.8	3152.1	3276.7	3601.8	3831.3	4232.4	4258.0
37.5°	3785.3	3792.9	3803.2	3699.9	3619.7	3585.6	3576.2	3982.4	4324.5	4746.1	4749.5
40°	4020.8	4037.8	4058.3	3983.2	3928.6	3958.5	3903.0	4441.4	4867.2	5324.6	5217.1
42.5°	4204.2	4227.3	4330.5	4226.4	4266.5	4327.1	4315.2	4805.8	5333.1	5747.9	5643.8
45°	4340.8	4358.7	4421.0	4450.8	4546.4	4667.6	4694.0	5179.6	5732.5	6133.5	5991.9
47.5°	4447.4	4434.6	4472.2	4624.9	4826.3	4962.0	5066.9	5607.9	6123.3	6490.2	6296.5
50°	4496.9	4495.2	4588.2	4775.9	5070.3	5264.0	5465.4	6166.8	6532.0	6830.7	6611.4
52.5°	4533.6	4563.5	4710.2	4929.5	5313.5	5578.0	5789.7	6707.8	6997.1	7205.3	6957.0
55°	4560.9	4618.9	4763.1	5014.0	5480.8	5848.5	6130.1	7199.3	7517.6	7559.4	7268.4
57.5°	4391.1	4452.5	4680.4	5038.8	5611.3	6082.3	6480.8	7763.4	8081.6	8056.9	7602.1
60°	4103.5	4153.0	4431.2	4967.9	5627.5	6342.6	6982.6	8390.5	8713.9	8710.5	7997.2
62.5°	3799.8	3844.1	4118.9	4734.1	5519.2	6484.3	7568.0	9331.7	9466.6	9332.6	8357.3
65°	3413.2	3458.4	3731.5	4341.6	5252.1	6476.6	8062.0	10338.6	10610.0	10222.6	8762.6
67.5°	2901.2	2973.8	3220.4	3785.3	4737.5	6230.0	8490.4	11098.1	11243.1	10893.3	9014.3
70°	2269.8	2340.6	2563.3	3140.2	4081.4	5665.9	8701.1	11370.3	11444.5	11121.1	9146.6
72.5°	1585.4	1644.3	1745.0	2244.2	3171.7	4795.6	8688.3	11238.9	11235.5	10906.9	8845.3
75°	564.9	644.2	1052.1	1355.9	1846.5	3526.7	8120.0	10697.9	10735.4	10437.6	8225.0
77.5°	146.8	153.6	324.3	654.5	1037.6	1705.8	6030.3	9681.6	9783.1	9437.5	7231.8
80°	107.5	112.6	156.2	455.7	593.9	750.9	3307.4	7933.2	8248.0	8068.0	5544.8
82.5°	75.9	81.9	114.3	300.4	392.5	499.2	1242.4	4308.3	4808.4	4779.4	2736.5
85°	47.8	52.1	71.7	107.5	149.3	200.5	349.9	2211.8	2537.7	2675.1	1196.3
87.5°	22.2	25.6	40.1	64.0	91.3	105.8	105.8	474.4	591.3	628.0	255.1
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°	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4	1585.4
2.5°	1576.1	1586.3	1564.1	1551.3	1524.9	1512.1	1505.2	1492.4	1489.0	1495.0	1501.0
5°	1612.7	1615.3	1570.1	1531.7	1498.4	1460.9	1442.9	1405.4	1389.2	1395.2	1402.0
7.5°	1659.7	1655.4	1586.3	1529.1	1469.4	1417.3	1380.6	1320.9	1303.8	1299.6	1309.0
10°	1704.0	1682.7	1605.9	1528.3	1448.9	1377.2	1320.9	1257.8	1216.8	1211.7	1213.4
12.5°	1784.3	1743.3	1654.6	1545.3	1449.8	1371.3	1289.3	1196.3	1148.5	1133.2	1133.2
15°	1895.2	1826.9	1743.3	1617.9	1504.4	1392.6	1275.7	1154.5	1070.9	1034.2	1033.4
17.5°	2014.7	1956.6	1867.9	1718.6	1569.2	1410.5	1245.8	1088.8	978.7	926.7	921.6
20°	2179.3	2146.1	2044.5	1839.7	1631.5	1413.1	1208.3	1007.8	859.3	788.5	773.1
22.5°	2412.3	2367.1	2197.3	1934.4	1652.8	1391.7	1136.6	877.2	694.6	601.6	592.2
25°	2652.9	2583.8	2345.7	2001.0	1669.1	1349.1	1033.4	696.3	499.2	412.1	401.1
27.5°	2919.2	2810.8	2472.9	2064.1	1649.4	1275.7	850.7	484.7	324.3	268.8	257.7
30°	3228.0	3070.2	2609.4	2107.7	1628.1	1127.2	629.7	314.0	209.9	169.0	166.4
32.5°	3611.2	3392.7	2744.2	2129.0	1551.3	933.5	407.0	200.5	129.7	109.2	105.8
35°	4068.6	3763.9	2925.1	2124.7	1425.9	675.8	255.1	117.8	86.2	82.8	82.8
37.5°	4502.0	4168.4	3141.9	2106.8	1227.1	430.9	145.9	76.8	75.1	86.2	91.3
40°	4940.6	4563.5	3375.7	2058.2	975.3	259.4	81.1	68.3	71.7	84.5	89.6
42.5°	5322.1	4874.9	3601.8	1952.4	686.9	139.1	71.7	64.0	67.4	73.4	74.2
45°	5630.1	5164.2	3723.8	1803.9	407.0	87.9	68.3	61.4	58.9	61.4	62.3
47.5°	5961.2	5410.8	3822.8	1584.6	220.2	86.2	67.4	57.2	52.1	50.3	52.1
50°	6207.8	5672.8	3857.8	1260.3	116.0	82.8	64.0	52.1	46.9	50.3	51.2
52.5°	6445.9	5874.1	3841.6	879.8	98.1	75.9	58.9	48.6	44.4	54.6	57.2
55°	6763.3	6122.5	3724.7	428.4	95.6	71.7	52.9	42.7	42.7	42.7	42.7
57.5°	7053.4	6293.1	3490.9	195.4	92.2	65.7	47.8	38.4	32.4	35.8	36.7
60°	7353.8	6556.8	3092.4	124.6	87.0	57.2	41.0	33.3	28.2	28.2	29.0
62.5°	7651.6	6613.1	2538.6	110.1	82.8	52.1	35.8	29.0	23.9	23.9	25.6
65°	7897.3	6519.2	1869.6	98.1	78.5	46.9	32.4	26.5	20.5	19.6	20.5
67.5°	7804.3	6061.0	1214.3	87.9	71.7	42.7	28.2	23.9	18.8	15.4	16.2
70°	7440.8	5370.7	656.2	84.5	64.9	39.3	25.6	21.3	17.1	12.8	12.8
72.5°	6855.4	4525.9	246.6	78.5	59.7	34.1	23.0	21.3	16.2	10.2	9.4
75°	5896.3	3417.5	116.9	70.8	50.3	30.7	23.0	22.2	16.2	6.8	6.0
77.5°	4729.9	1906.3	89.6	59.7	41.0	25.6	23.0	21.3	9.4	3.4	2.6
80°	2542.0	715.9	67.4	43.5	29.9	19.6	21.3	15.4	4.3	0.9	0.0
82.5°	1008.6	176.6	46.9	19.6	12.8	8.5	11.9	6.0	0.9	0.0	0.0
85°	254.3	69.1	29.0	10.2	6.8	4.3	1.7	0.0	0.0	0.0	0.0
87.5°	29.0	19.6	8.5	5.1	2.6	0.9	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)