

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: P287040

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

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P287040
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-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K 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: 15518 lumens
Efficiency: N/A
Efficacy: 118.5 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

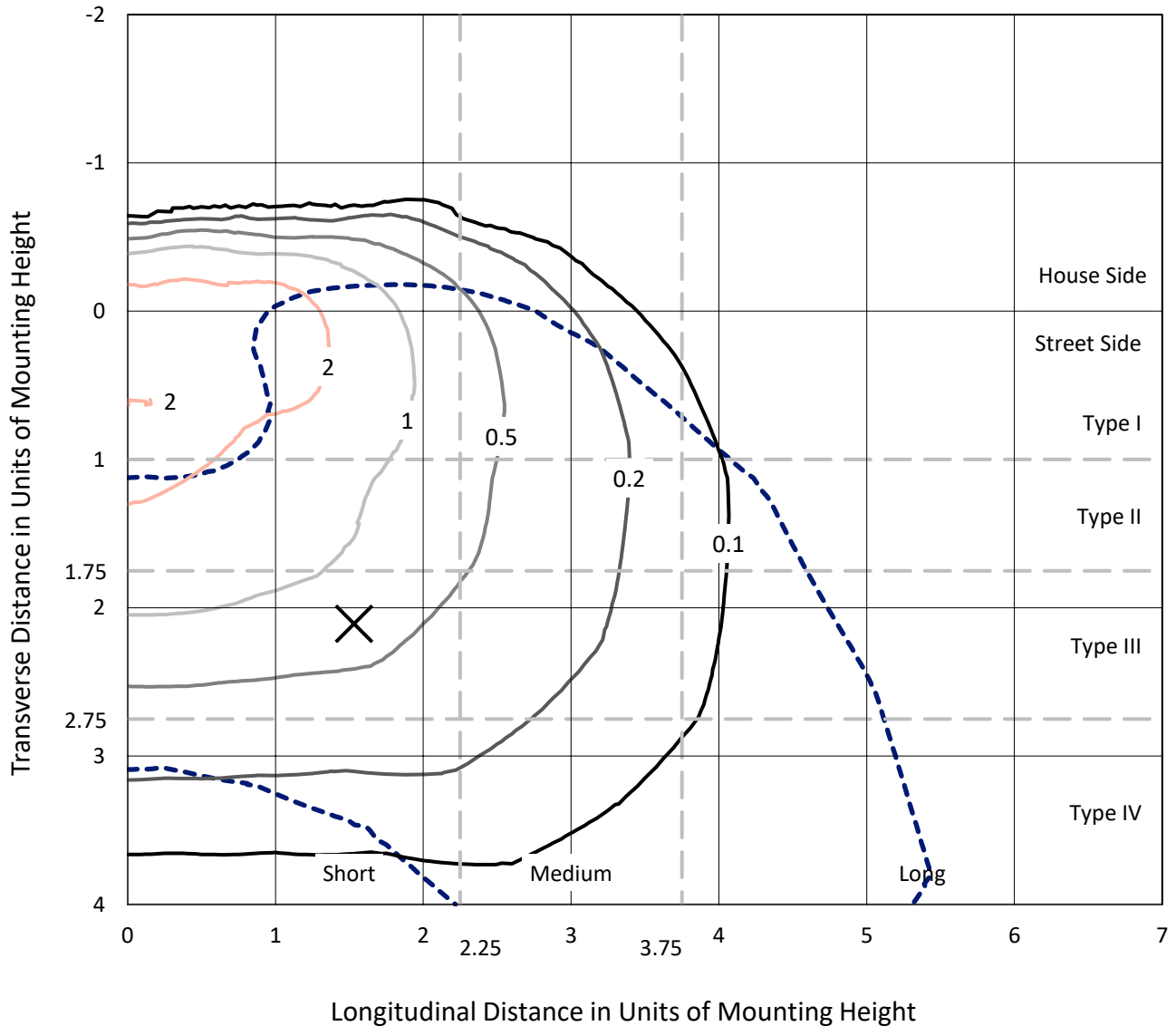
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

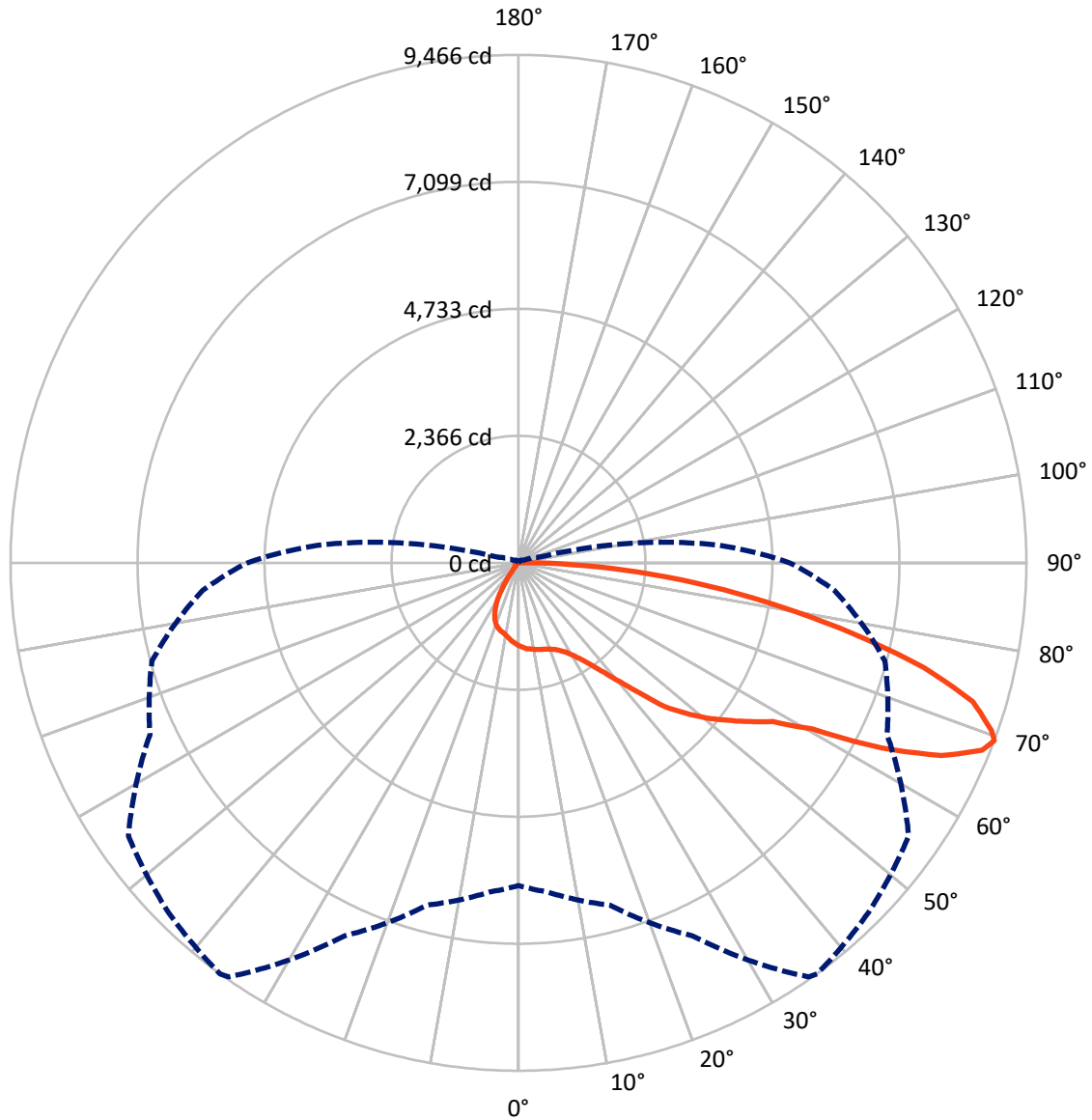
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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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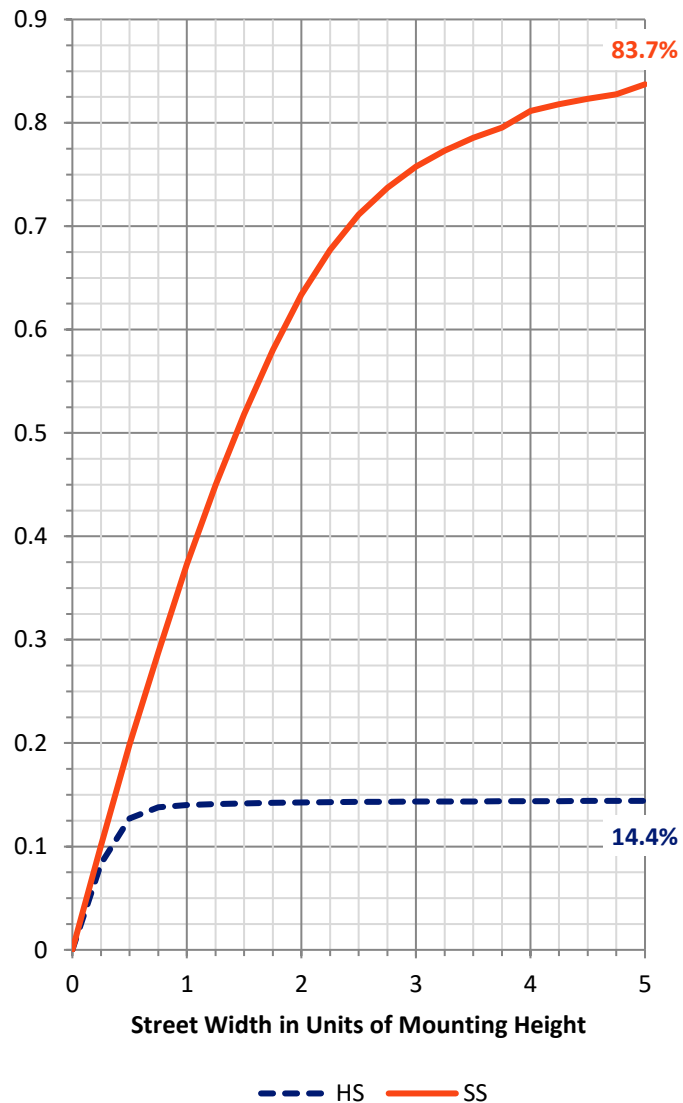
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2262.7	0.0	2262.7
	% Fixture	14.6	0.0	14.6
Street Side	Lumens	13255.3	0.0	13255.3
	% Fixture	85.4	0.0	85.4
Total	Lumens	15518.0	0.0	15518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	0.9
10°-20°	438.1	2.8
20°-30°	734.2	4.7
30°-40°	1187.3	7.7
40°-50°	2094.2	13.5
50°-60°	3052.6	19.7
60°-70°	4031.8	26.0
70°-80°	3100.1	20.0
80°-90°	732.9	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°	15518.0	100.0
0°-180°	15518.0	100.0

Coefficient of Utilization

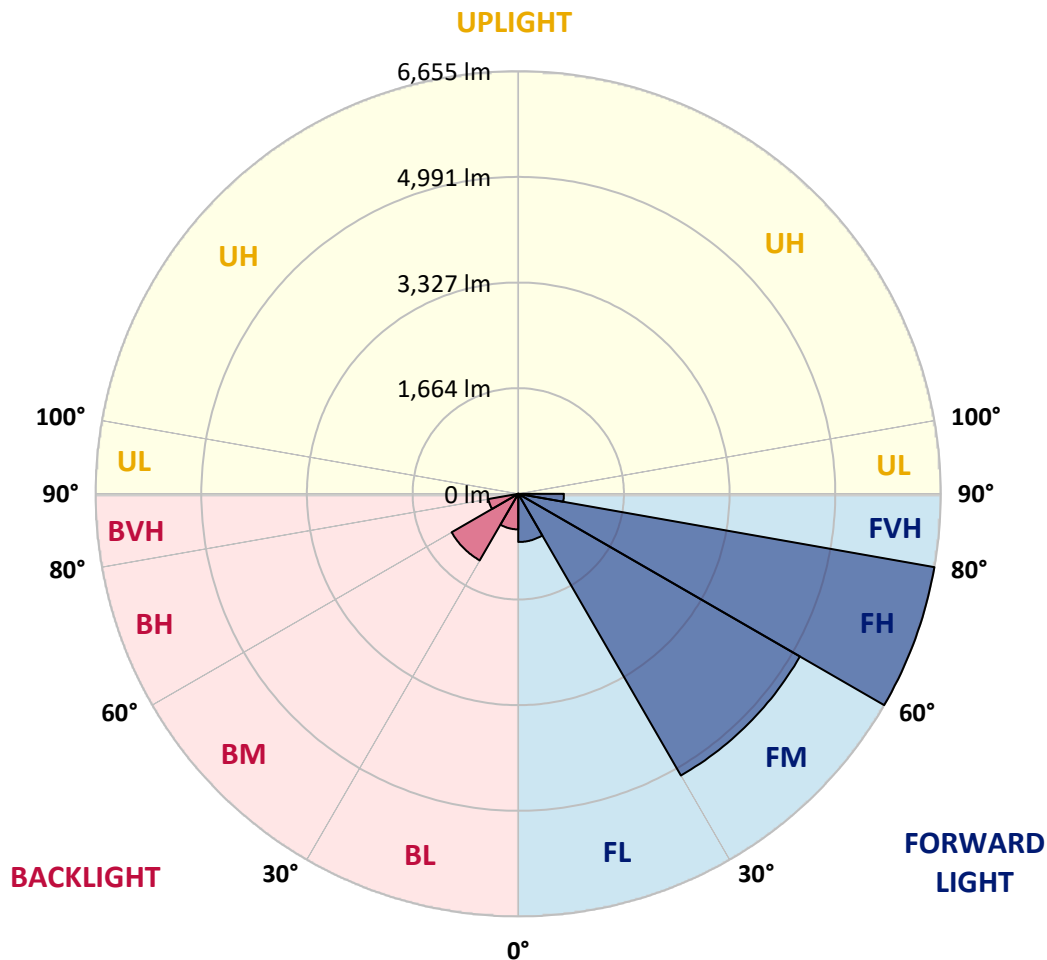


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	758.5	4.9			
FM (30°-60°)	5122.6	33.0			
FH (60°-80°)	6654.9	42.9			G3/7500
FVH (80°-90°)	719.3	4.6			G4/750
BL (0°-30°)	560.5	3.6	B2/1000		
BM (30°-60°)	1211.6	7.8	B2/2500		
BH (60°-80°)	477.0	3.1	B1/500		G1/500
BVH (80°-90°)	13.6	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°	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2
2.5°	1603.2	1605.7	1598.1	1580.5	1576.3	1578.0	1579.7	1569.6	1558.7	1553.7	1542.0
5°	1631.6	1632.5	1629.1	1613.2	1609.0	1609.0	1607.3	1595.6	1584.7	1578.0	1561.3
7.5°	1639.2	1638.4	1640.0	1623.3	1627.5	1619.9	1624.9	1613.2	1603.2	1593.9	1578.9
10°	1650.9	1652.6	1650.9	1637.5	1639.2	1640.9	1640.0	1631.6	1630.8	1630.0	1604.0
12.5°	1645.1	1644.2	1649.2	1640.9	1652.6	1654.3	1672.7	1676.9	1681.1	1681.1	1654.3
15°	1640.9	1631.6	1652.6	1645.9	1670.2	1672.7	1700.4	1725.5	1730.5	1732.2	1722.2
17.5°	1646.7	1645.1	1674.4	1661.8	1696.2	1690.3	1717.1	1761.5	1785.0	1796.7	1802.6
20°	1671.9	1678.6	1702.9	1690.3	1718.8	1718.8	1748.1	1795.9	1840.3	1869.6	1875.5
22.5°	1710.4	1712.9	1741.4	1728.9	1751.5	1754.0	1779.1	1835.3	1895.6	1945.1	1970.2
25°	1751.5	1749.8	1773.3	1774.1	1804.3	1811.8	1833.6	1878.9	1958.5	2023.0	2091.7
27.5°	1811.8	1808.5	1836.1	1827.7	1883.9	1883.1	1908.2	1961.8	2051.5	2136.1	2240.9
30°	1909.9	1901.5	1918.3	1931.7	1995.4	1997.9	2020.5	2073.3	2163.8	2287.0	2414.4
32.5°	2068.3	2075.0	2073.3	2056.5	2137.0	2142.0	2197.3	2282.8	2375.0	2523.3	2672.5
35°	2401.8	2401.0	2355.7	2313.0	2320.5	2335.6	2407.7	2561.9	2750.4	3100.7	3232.3
37.5°	2816.6	2836.7	2757.1	2633.9	2593.7	2591.2	2654.0	2882.8	3191.2	3867.5	3920.3
40°	3365.5	3327.8	3231.4	3042.1	2940.7	2912.2	2933.1	3202.1	3675.6	4521.2	4470.9
42.5°	3738.5	3755.2	3649.6	3487.9	3337.0	3315.3	3265.8	3553.3	4200.2	5042.4	4901.6
45°	4186.0	4219.5	4103.0	3988.2	3835.7	3822.3	3747.7	3915.3	4704.7	5428.8	5238.5
47.5°	4575.6	4599.1	4413.1	4305.8	4196.0	4185.1	4114.7	4280.7	5143.0	5746.4	5514.2
50°	4995.5	5014.8	4812.0	4659.5	4555.5	4545.5	4506.1	4690.5	5587.2	6046.4	5742.2
52.5°	5531.0	5458.9	5212.6	5004.7	4889.1	4875.7	4894.9	5099.4	6007.8	6262.6	5924.9
55°	6157.9	5961.8	5646.7	5386.9	5214.2	5223.4	5246.1	5515.1	6365.7	6472.1	6062.3
57.5°	6535.8	6546.7	6310.4	5927.4	5599.7	5581.3	5564.5	5892.2	6656.5	6704.2	6195.6
60°	7041.1	7075.5	7044.5	6808.2	6366.5	6287.7	6014.5	6312.9	6964.9	6892.0	6275.2
62.5°	7425.0	7481.1	7662.1	7516.3	7567.4	7600.9	6849.2	6816.5	7248.1	7020.2	6291.9
65°	7337.0	7390.6	7761.8	8048.4	8588.1	8659.4	8470.0	7457.6	7469.4	7077.2	6238.3
67.5°	6670.7	6726.0	7178.6	7950.4	9238.5	9318.9	9116.9	8570.5	7579.2	7079.7	6101.7
69°	6014.5	6157.0	6604.5	7668.0	9420.3	9465.6	9220.0	8873.9	7577.5	7069.6	5909.0
70°	5622.3	5736.3	6244.2	7342.0	9325.6	9347.4	9158.0	8996.3	7549.0	6981.6	5727.9
72.5°	4520.3	4495.2	5035.7	6224.1	8867.2	8853.8	8874.7	8832.0	7497.0	6659.8	4964.5
75°	3276.7	3285.9	3786.2	4897.5	7709.9	7807.9	8227.0	8480.9	6991.7	5808.4	3653.0
77.5°	2328.9	2348.2	2778.1	3749.4	6354.8	6400.9	7169.4	7439.2	5883.0	4569.8	1991.2
80°	1558.7	1575.5	1977.8	2764.7	4853.9	4958.6	5796.7	5857.0	4452.5	2828.4	360.4
82.5°	974.6	983.0	1294.8	1969.4	3541.5	3592.6	3980.6	3864.2	2314.6	630.2	107.3
85°	559.0	569.0	793.6	1247.0	2236.7	2256.0	2514.9	1911.5	554.8	84.6	58.7
87.5°	160.1	171.8	328.5	538.0	1009.0	1001.4	938.6	626.0	89.7	38.5	27.7
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°	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2	1546.2
2.5°	1532.8	1545.3	1530.2	1519.4	1506.8	1508.5	1508.5	1494.2	1494.2	1514.3	1516.8
5°	1552.0	1561.3	1535.3	1514.3	1487.5	1481.6	1464.9	1448.1	1442.3	1459.8	1462.4
7.5°	1569.6	1564.6	1533.6	1500.1	1464.9	1437.2	1416.3	1388.6	1376.0	1396.2	1399.5
10°	1587.2	1572.1	1540.3	1500.1	1443.9	1403.7	1372.7	1323.3	1309.8	1319.9	1324.9
12.5°	1635.8	1615.7	1578.9	1509.3	1445.6	1391.1	1330.8	1268.8	1236.9	1248.7	1255.4
15°	1707.9	1677.7	1639.2	1553.7	1465.7	1386.9	1304.8	1206.8	1148.9	1142.2	1143.9
17.5°	1793.4	1761.5	1710.4	1606.5	1494.2	1386.9	1265.4	1142.2	1046.7	1019.0	1022.4
20°	1879.7	1844.5	1803.4	1667.7	1521.0	1366.0	1216.8	1055.9	919.3	856.5	856.5
22.5°	1978.6	1953.5	1884.7	1716.3	1530.2	1333.3	1142.2	939.4	771.8	679.6	676.3
25°	2106.8	2084.2	1957.6	1754.8	1522.7	1292.2	1045.9	802.0	594.2	500.3	495.3
27.5°	2250.1	2205.7	2028.9	1783.3	1496.7	1226.0	917.6	627.7	414.0	325.2	321.0
30°	2409.3	2344.8	2083.3	1778.3	1449.0	1114.6	766.8	421.5	241.4	182.7	182.7
32.5°	2638.1	2520.8	2147.9	1766.6	1382.8	981.3	563.2	249.7	120.7	93.0	93.0
35°	3084.8	2864.4	2245.9	1734.7	1275.5	805.3	354.5	112.3	66.2	65.4	65.4
37.5°	3684.0	3307.7	2403.5	1687.8	1128.0	585.8	176.8	62.0	62.0	63.7	62.9
40°	4209.4	3785.4	2613.8	1616.6	966.2	369.6	80.5	59.5	62.9	65.4	65.4
42.5°	4600.0	4154.1	2817.5	1512.6	771.8	188.6	67.0	57.8	60.3	61.2	62.0
45°	4931.0	4464.2	2980.0	1381.1	564.8	89.7	67.0	57.0	57.0	57.0	57.8
47.5°	5184.9	4691.3	3091.5	1226.0	351.1	75.4	70.4	56.1	52.8	51.1	52.0
50°	5383.5	4849.7	3130.9	1053.4	173.5	76.3	68.7	52.8	46.1	46.9	47.8
52.5°	5523.5	4977.9	3089.0	838.0	89.7	80.5	69.6	51.1	41.1	43.6	43.6
55°	5653.4	5009.7	2982.6	595.8	80.5	81.3	69.6	46.9	35.2	40.2	42.7
57.5°	5686.0	5008.9	2815.8	374.6	86.3	77.1	66.2	46.1	33.5	40.2	41.9
60°	5734.6	4967.8	2587.0	228.8	90.5	71.2	62.0	43.6	31.8	33.5	35.2
62.5°	5681.9	4897.5	2244.2	151.7	87.2	66.2	60.3	41.9	27.7	25.1	24.3
65°	5578.8	4662.0	1693.7	122.4	81.3	64.5	54.5	36.9	22.6	15.9	15.1
67.5°	5338.3	4214.5	895.9	115.6	76.3	63.7	48.6	34.4	18.4	9.2	8.4
69°	5055.0	3761.1	406.4	117.3	88.8	63.7	49.4	30.2	16.8	6.7	5.9
70°	4759.2	3347.1	185.2	114.0	96.4	67.0	48.6	27.7	15.1	5.9	5.0
72.5°	3670.6	2080.8	126.5	101.4	107.3	65.4	48.6	26.0	14.2	3.4	2.5
75°	2178.9	516.2	114.0	80.5	102.2	79.6	58.7	28.5	12.6	1.7	0.0
77.5°	564.8	144.1	96.4	61.2	90.5	89.7	67.9	28.5	12.6	0.0	0.0
80°	145.8	110.6	83.0	39.4	71.2	87.2	55.3	31.8	10.1	0.0	0.0
82.5°	87.2	80.5	90.5	24.3	57.0	58.7	32.7	22.6	10.9	0.0	0.0
85°	50.3	69.6	63.7	18.4	10.9	5.9	13.4	25.1	10.9	0.0	0.0
87.5°	29.3	37.7	14.2	2.5	2.5	1.7	0.8	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)