

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: P287024

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

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P287024
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-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K 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: 15573 lumens
Efficiency: N/A
Efficacy: 118.9 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

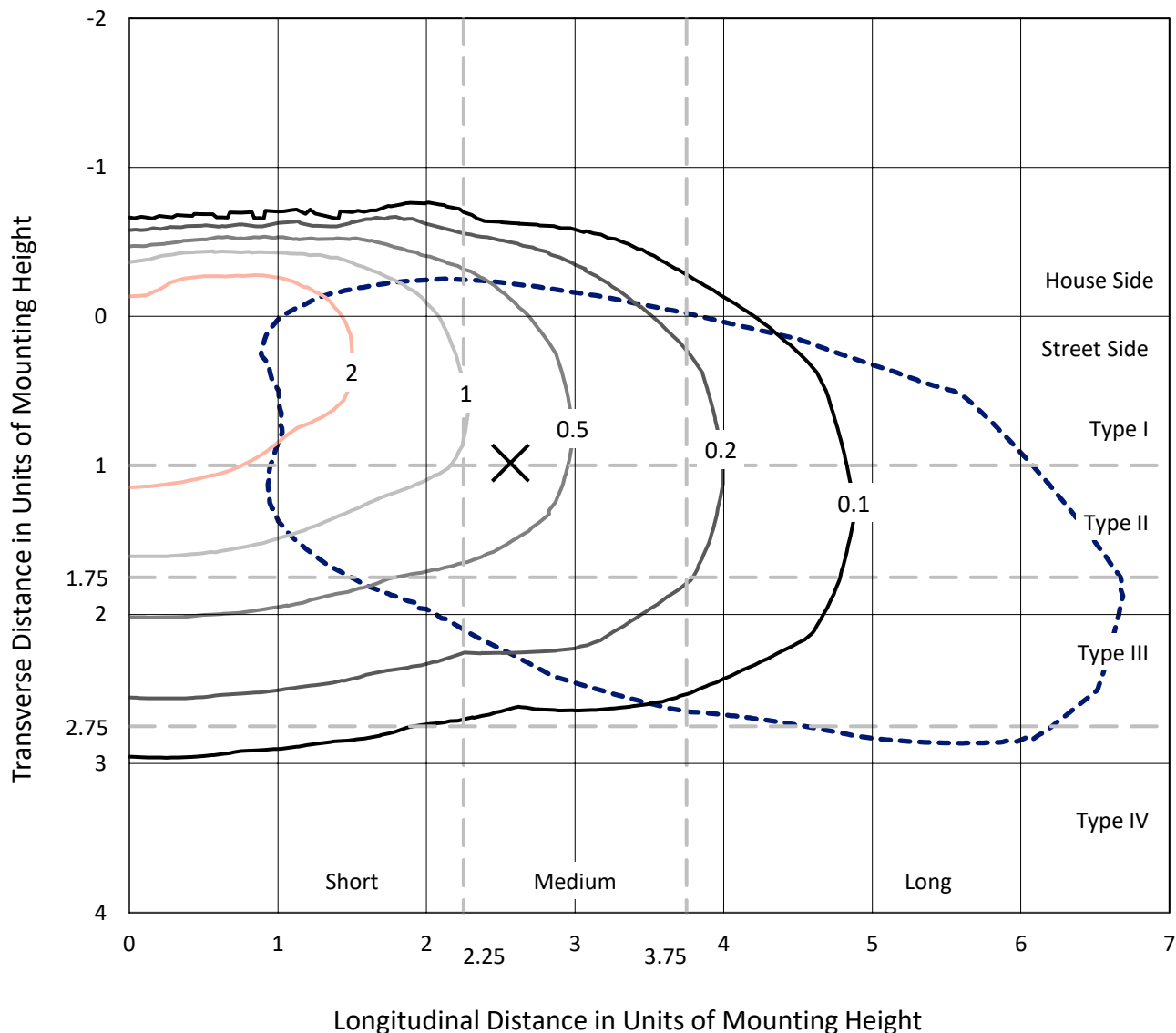
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

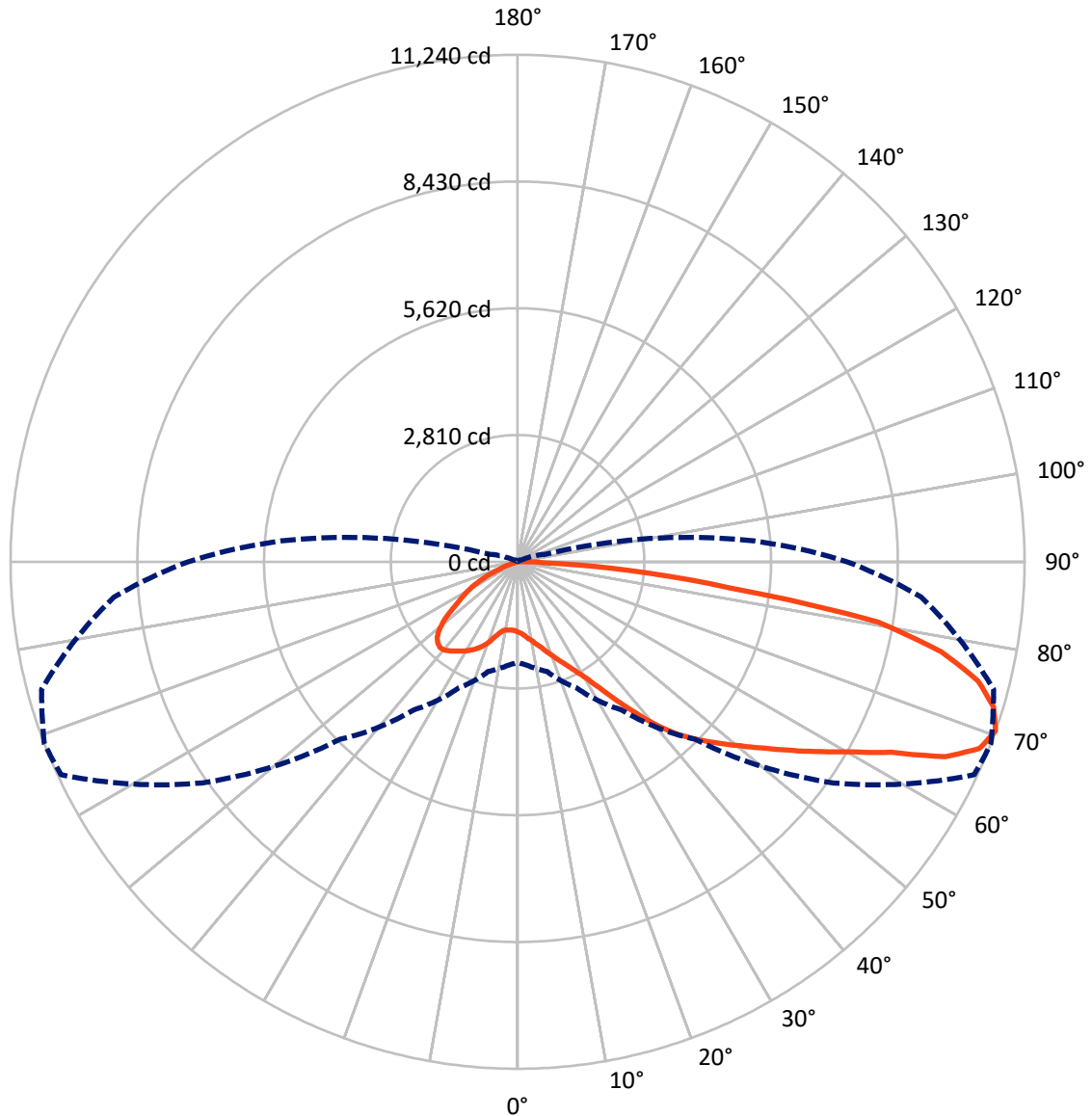
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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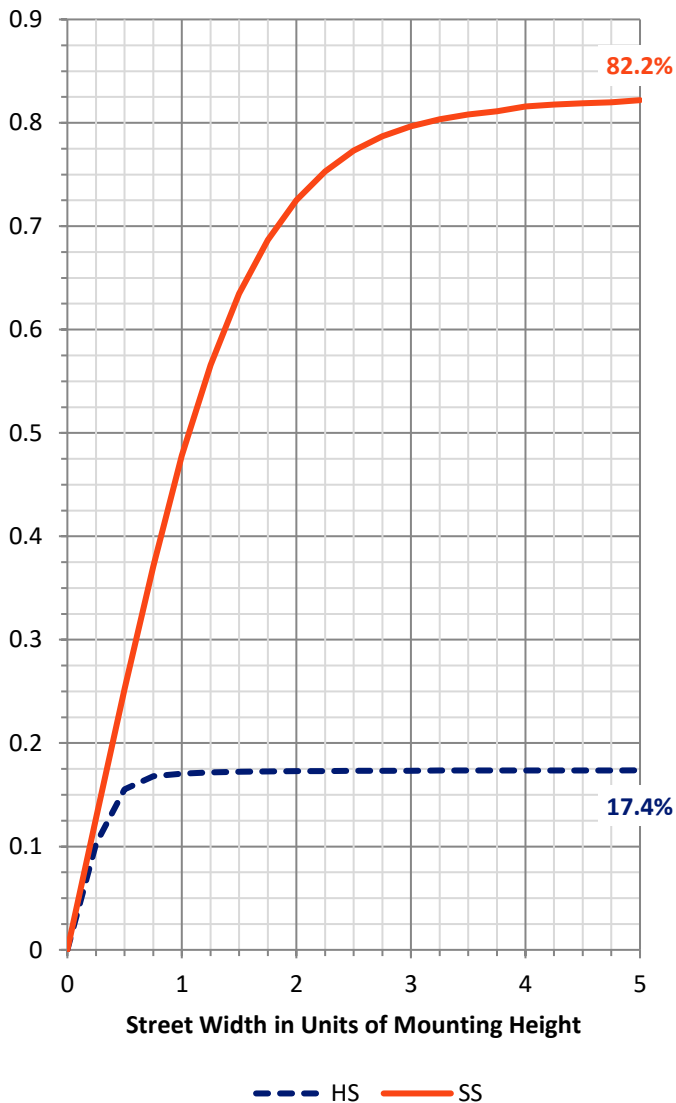
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2735.7	0.0	2735.7
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	12837.3	0.0	12837.3
	% Fixture	82.4	0.0	82.4
Total	Lumens	15573.0	0.0	15573.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	1.0
10°-20°	480.3	3.1
20°-30°	880.9	5.7
30°-40°	1513.0	9.7
40°-50°	2364.5	15.2
50°-60°	3157.8	20.3
60°-70°	3695.5	23.7
70°-80°	2776.1	17.8
80°-90°	553.5	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°	15573.0	100.0
0°-180°	15573.0	100.0

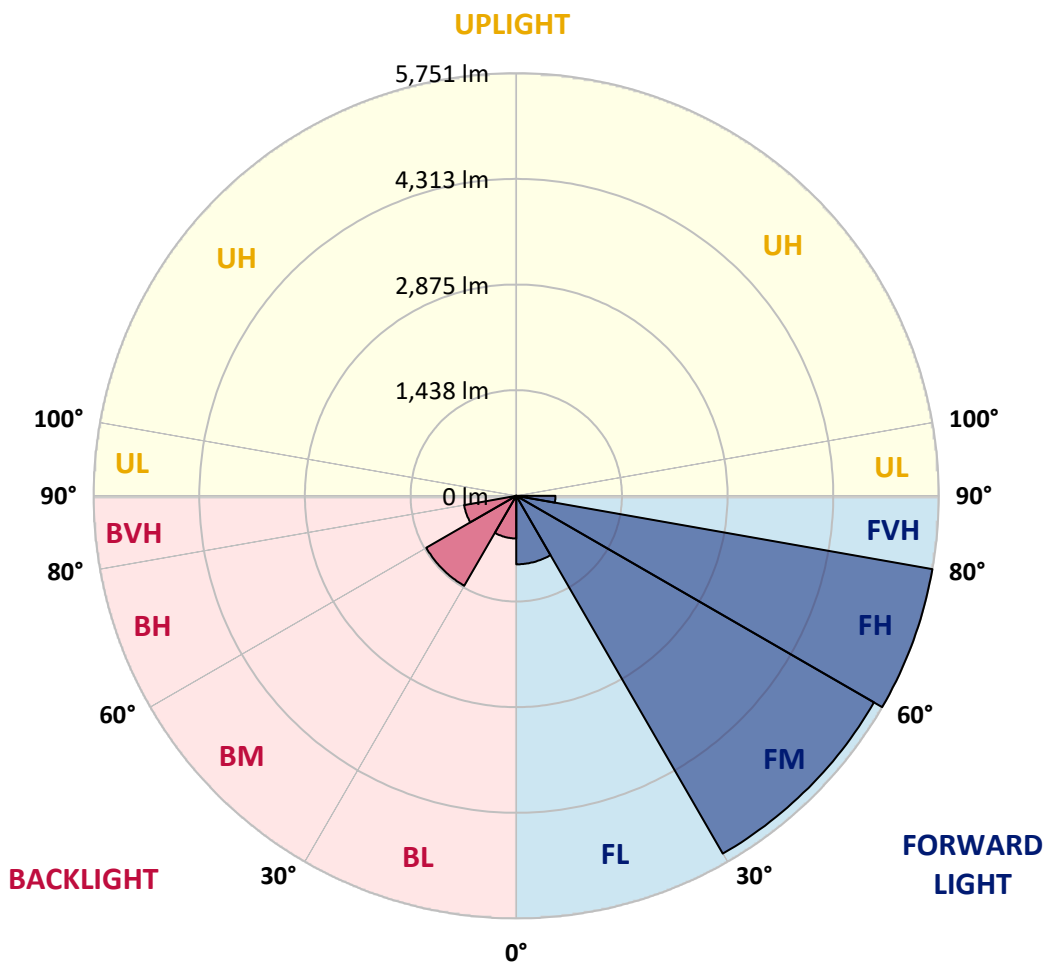


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.1	6.0			
FM (30°-60°)	5621.6	36.1			
FH (60°-80°)	5750.7	36.9			G3/7500
FVH (80°-90°)	532.9	3.4			G4/750
BL (0°-30°)	580.5	3.7	B2/1000		
BM (30°-60°)	1413.7	9.1	B2/2500		
BH (60°-80°)	721.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	20.5	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°	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1
2.5°	1665.3	1677.0	1669.4	1642.6	1637.6	1635.9	1618.3	1603.2	1594.0	1591.5	1563.0
5°	1755.8	1765.0	1762.5	1732.3	1723.9	1704.6	1689.6	1650.2	1644.3	1635.9	1601.6
7.5°	1823.6	1825.3	1840.4	1815.3	1806.9	1783.4	1761.6	1725.6	1718.9	1705.5	1656.9
10°	1886.5	1898.2	1906.6	1874.8	1888.2	1858.8	1832.9	1807.7	1780.1	1779.2	1718.1
12.5°	1926.7	1933.4	1951.9	1926.7	1946.0	1945.2	1921.7	1893.2	1877.3	1863.0	1793.5
15°	1951.9	1959.4	1983.7	2003.0	2009.7	2020.6	2019.8	1998.0	1970.3	1965.3	1893.2
17.5°	1991.3	1998.0	2016.4	2047.4	2070.9	2095.2	2114.5	2116.1	2099.4	2093.5	2027.3
20°	2050.8	2049.9	2060.0	2077.6	2122.0	2175.6	2218.4	2234.3	2227.6	2226.8	2178.2
22.5°	2113.6	2110.3	2120.3	2128.7	2174.8	2264.5	2334.9	2375.1	2377.6	2372.6	2364.2
25°	2214.2	2197.4	2196.6	2205.8	2267.0	2370.9	2463.1	2531.8	2538.5	2551.9	2626.5
27.5°	2469.8	2467.3	2392.7	2329.0	2370.1	2488.2	2624.0	2714.5	2745.5	2796.7	2937.4
30°	2837.7	2823.5	2792.5	2644.1	2533.5	2641.6	2812.6	2952.5	2985.2	3167.1	3292.8
32.5°	3167.9	3152.0	3139.4	3002.0	2849.5	2825.1	2997.0	3235.8	3329.7	3611.3	3705.1
35°	3456.2	3447.0	3447.0	3354.8	3200.6	3095.8	3218.2	3537.5	3763.0	4156.8	4182.0
37.5°	3717.7	3725.2	3735.3	3633.9	3555.1	3521.6	3512.4	3911.3	4247.4	4661.4	4664.7
40°	3949.0	3965.8	3985.9	3912.1	3858.5	3887.8	3833.4	4362.2	4780.4	5229.6	5124.0
42.5°	4129.2	4151.8	4253.2	4151.0	4190.4	4249.9	4238.1	4720.0	5238.0	5645.3	5543.0
45°	4263.3	4280.9	4342.1	4371.4	4465.3	4584.3	4610.2	5087.1	5630.2	6024.1	5885.0
47.5°	4368.0	4355.5	4392.3	4542.4	4740.1	4873.4	4976.5	5507.8	6014.0	6374.4	6184.1
50°	4416.6	4415.0	4506.3	4690.7	4979.8	5170.1	5367.9	6056.8	6415.5	6708.8	6493.4
52.5°	4452.7	4482.0	4626.2	4841.6	5218.7	5478.5	5686.3	6588.1	6872.2	7076.7	6832.8
55°	4479.5	4536.5	4678.1	4924.5	5382.9	5744.2	6020.7	7070.8	7383.4	7424.5	7138.7
57.5°	4312.7	4373.1	4596.8	4948.8	5511.2	5973.8	6365.2	7624.8	7937.4	7913.1	7466.4
60°	4030.3	4078.9	4352.1	4879.3	5527.1	6229.4	6858.0	8240.8	8558.4	8555.1	7854.4
62.5°	3731.9	3775.5	4045.4	4649.6	5420.7	6368.5	7432.9	9165.2	9297.6	9166.0	8208.1
65°	3352.3	3396.7	3664.9	4264.1	5158.3	6361.0	7918.1	10154.1	10420.6	10040.1	8606.2
67.5°	2849.5	2920.7	3162.9	3717.7	4653.0	6118.8	8338.8	10900.0	11042.5	10698.9	8853.4
70°	2229.3	2298.8	2517.6	3084.1	4008.5	5564.8	8545.8	11167.3	11240.2	10922.6	8983.3
72.5°	1557.1	1615.0	1713.9	2204.1	3115.1	4710.0	8533.3	11038.3	11034.9	10712.3	8687.5
75°	554.8	632.7	1033.3	1331.7	1813.6	3463.8	7975.1	10506.9	10543.8	10251.3	8078.2
77.5°	144.1	150.9	318.5	642.8	1019.1	1675.3	5922.7	9508.8	9608.5	9269.1	7102.7
80°	105.6	110.6	153.4	447.5	583.3	737.5	3248.4	7791.6	8100.8	7924.0	5445.8
82.5°	74.6	80.5	112.3	295.0	385.5	490.3	1220.2	4231.4	4722.5	4694.1	2687.7
85°	46.9	51.1	70.4	105.6	146.7	196.9	343.6	2172.3	2492.4	2627.4	1175.0
87.5°	21.8	25.1	39.4	62.9	89.7	103.9	103.9	466.0	580.8	616.8	250.6
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°	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1	1557.1
2.5°	1547.9	1558.0	1536.2	1523.6	1497.6	1485.1	1478.4	1465.8	1462.4	1468.3	1474.2
5°	1584.0	1586.5	1542.1	1504.3	1471.7	1434.8	1417.2	1380.3	1364.4	1370.3	1377.0
7.5°	1630.1	1625.9	1558.0	1501.8	1443.2	1392.0	1356.0	1297.3	1280.6	1276.4	1285.6
10°	1673.6	1652.7	1577.3	1501.0	1423.0	1352.7	1297.3	1235.3	1195.1	1190.1	1191.7
12.5°	1752.4	1712.2	1625.0	1517.8	1423.9	1346.8	1266.3	1175.0	1128.0	1113.0	1113.0
15°	1861.4	1794.3	1712.2	1589.0	1477.5	1367.7	1252.9	1133.9	1051.8	1015.7	1014.9
17.5°	1978.7	1921.7	1834.5	1687.9	1541.2	1385.3	1223.6	1069.4	961.3	910.1	905.1
20°	2140.4	2107.8	2008.0	1806.9	1602.4	1387.9	1186.7	989.8	843.9	774.4	759.3
22.5°	2369.2	2324.8	2158.0	1899.9	1623.3	1366.9	1116.3	861.5	682.2	590.8	581.6
25°	2605.6	2537.7	2303.9	1965.3	1639.3	1325.0	1014.9	683.9	490.3	404.8	393.9
27.5°	2867.1	2760.6	2428.7	2027.3	1620.0	1252.9	835.6	476.0	318.5	264.0	253.1
30°	3170.4	3015.4	2562.8	2070.0	1599.0	1107.1	618.5	308.4	206.2	165.9	163.4
32.5°	3546.7	3332.2	2695.2	2091.0	1523.6	916.9	399.8	196.9	127.4	107.3	103.9
35°	3995.9	3696.7	2872.9	2086.8	1400.4	663.8	250.6	115.7	84.6	81.3	81.3
37.5°	4421.7	4094.0	3085.8	2069.2	1205.2	423.2	143.3	75.4	73.8	84.6	89.7
40°	4852.4	4482.0	3315.4	2021.4	957.9	254.8	79.6	67.0	70.4	83.0	88.0
42.5°	5227.1	4787.9	3537.5	1917.5	674.6	136.6	70.4	62.9	66.2	72.1	72.9
45°	5529.6	5072.0	3657.4	1771.7	399.8	86.3	67.0	60.3	57.8	60.3	61.2
47.5°	5854.8	5314.2	3754.6	1556.3	216.2	84.6	66.2	56.2	51.1	49.4	51.1
50°	6097.0	5571.5	3788.9	1237.8	114.0	81.3	62.9	51.1	46.1	49.4	50.3
52.5°	6330.8	5769.3	3773.0	864.1	96.4	74.6	57.8	47.8	43.6	53.6	56.2
55°	6642.6	6013.2	3658.2	420.7	93.9	70.4	52.0	41.9	41.9	41.9	41.9
57.5°	6927.5	6180.8	3428.6	191.9	90.5	64.5	46.9	37.7	31.8	35.2	36.0
60°	7222.5	6439.8	3037.2	122.4	85.5	56.2	40.2	32.7	27.7	27.7	28.5
62.5°	7515.0	6495.1	2493.3	108.1	81.3	51.1	35.2	28.5	23.5	23.5	25.1
65°	7756.4	6402.9	1836.2	96.4	77.1	46.1	31.8	26.0	20.1	19.3	20.1
67.5°	7665.0	5952.8	1192.6	86.3	70.4	41.9	27.7	23.5	18.4	15.1	15.9
70°	7308.0	5274.8	644.5	83.0	63.7	38.6	25.1	21.0	16.8	12.6	12.6
72.5°	6733.1	4445.1	242.2	77.1	58.7	33.5	22.6	21.0	15.9	10.1	9.2
75°	5791.1	3356.5	114.8	69.6	49.4	30.2	22.6	21.8	15.9	6.7	5.9
77.5°	4645.4	1872.3	88.0	58.7	40.2	25.1	22.6	21.0	9.2	3.4	2.5
80°	2496.6	703.1	66.2	42.7	29.3	19.3	21.0	15.1	4.2	0.8	0.0
82.5°	990.6	173.5	46.1	19.3	12.6	8.4	11.7	5.9	0.8	0.0	0.0
85°	249.7	67.9	28.5	10.1	6.7	4.2	1.7	0.0	0.0	0.0	0.0
87.5°	28.5	19.3	8.4	5.0	2.5	0.8	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)