

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: P287020

Luminaire Tested: **PRV-C40-D-UNV-T3-BZ-7030-HSS**

Issue Date: 3/4/2019

Test Information

Test Method: LM-79-08
Report Number: P287020
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-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K 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: 15290 lumens
Efficiency: N/A
Efficacy: 116.7 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

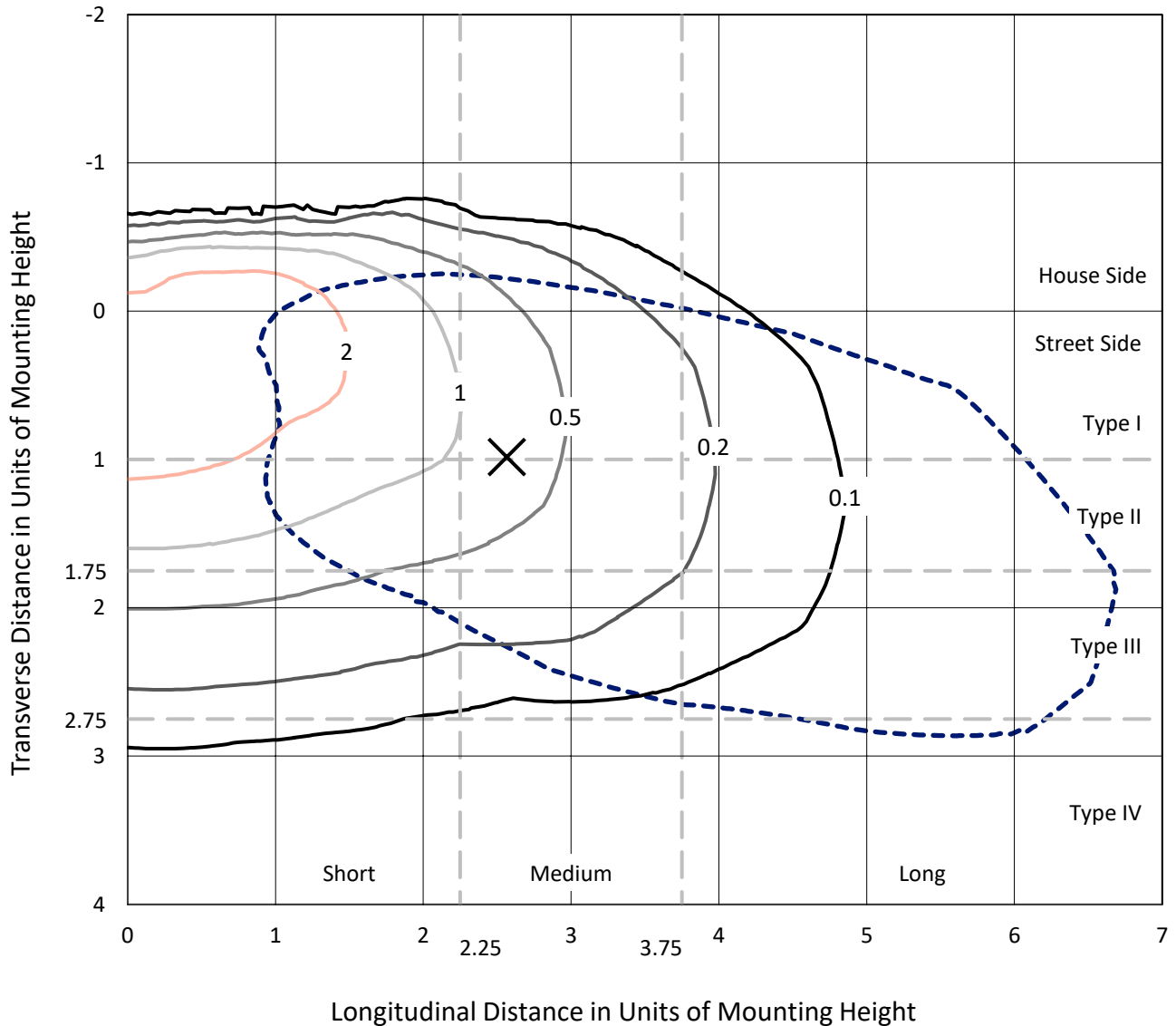
Input Watts (W): 131
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

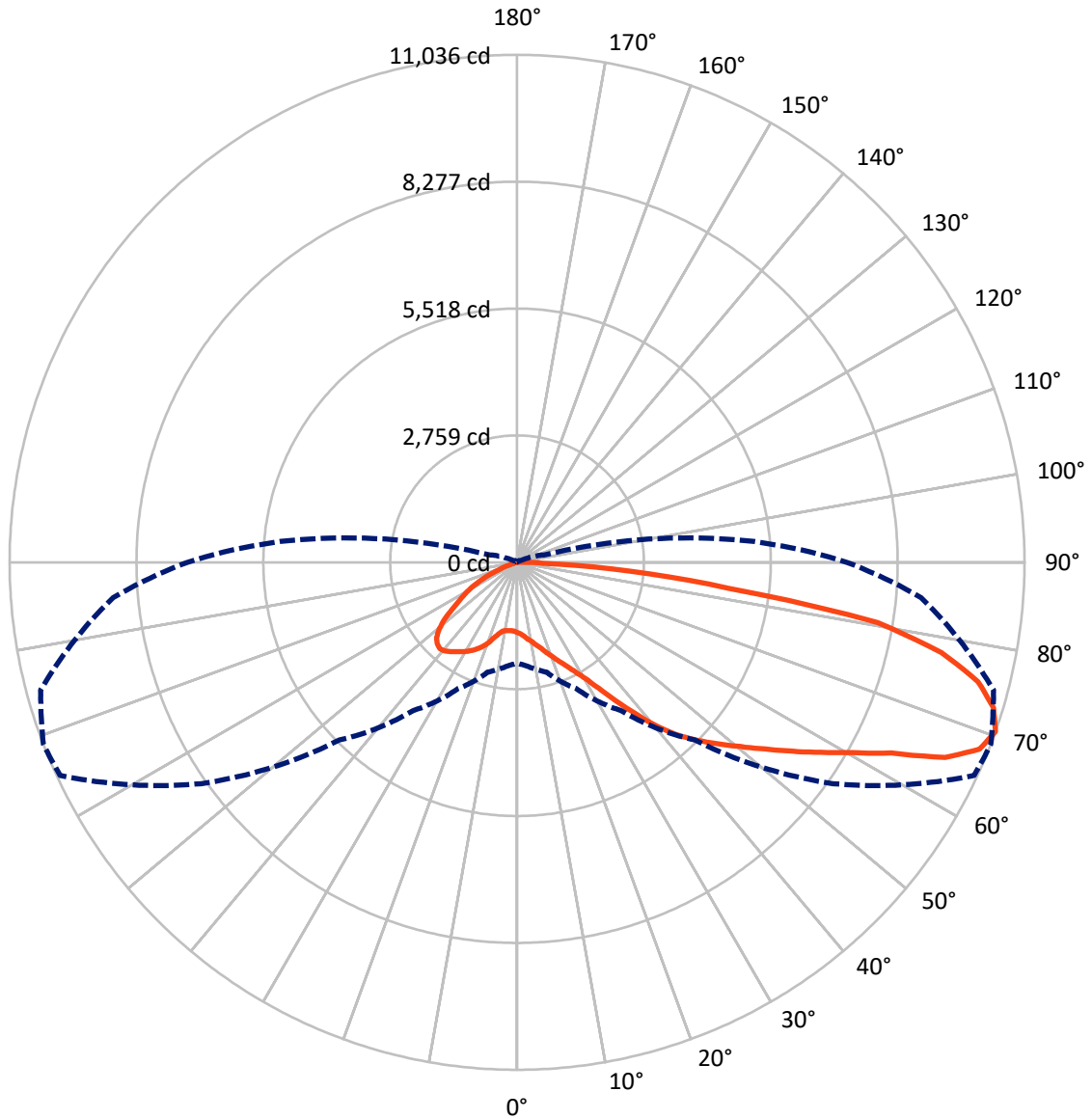
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Medium - N/A

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CATALOG NUMBER: PRV-C40-D-UNV-T3-BZ-7030-HSS

Luminous Intensity Polar Plot



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

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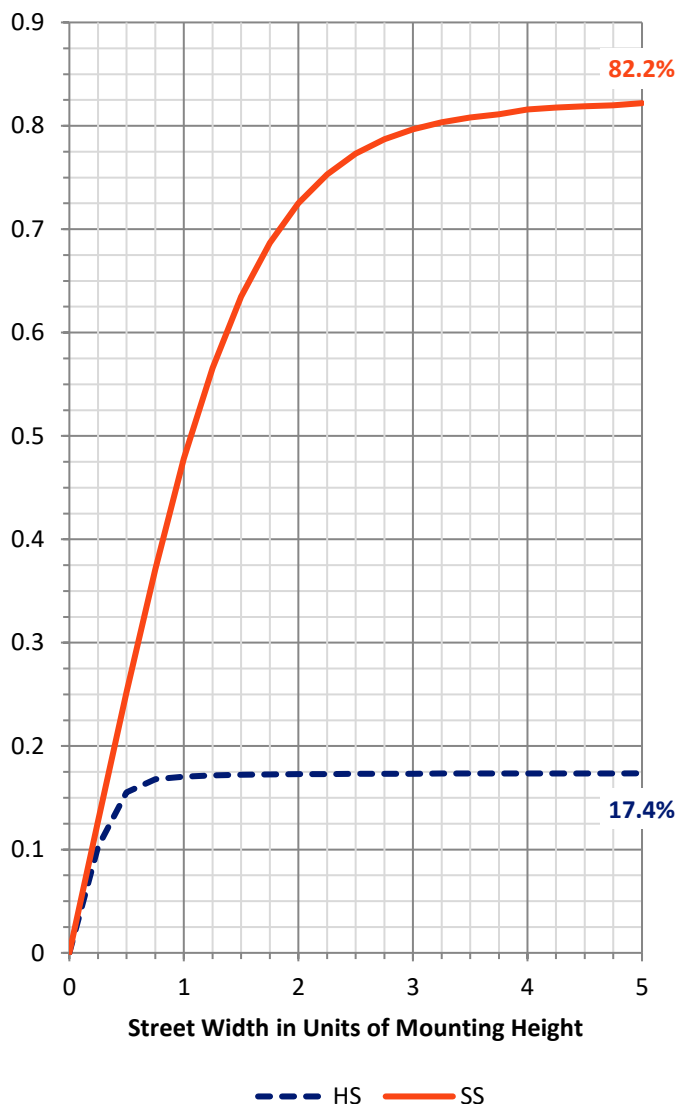
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2686.0	0.0	2686.0
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	12604.0	0.0	12604.0
	% Fixture	82.4	0.0	82.4
Total	Lumens	15290.0	0.0	15290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	1.0
10°-20°	471.5	3.1
20°-30°	864.9	5.7
30°-40°	1485.5	9.7
40°-50°	2321.5	15.2
50°-60°	3100.4	20.3
60°-70°	3628.4	23.7
70°-80°	2725.7	17.8
80°-90°	543.4	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°	15290.0	100.0
0°-180°	15290.0	100.0

Coefficient of Utilization

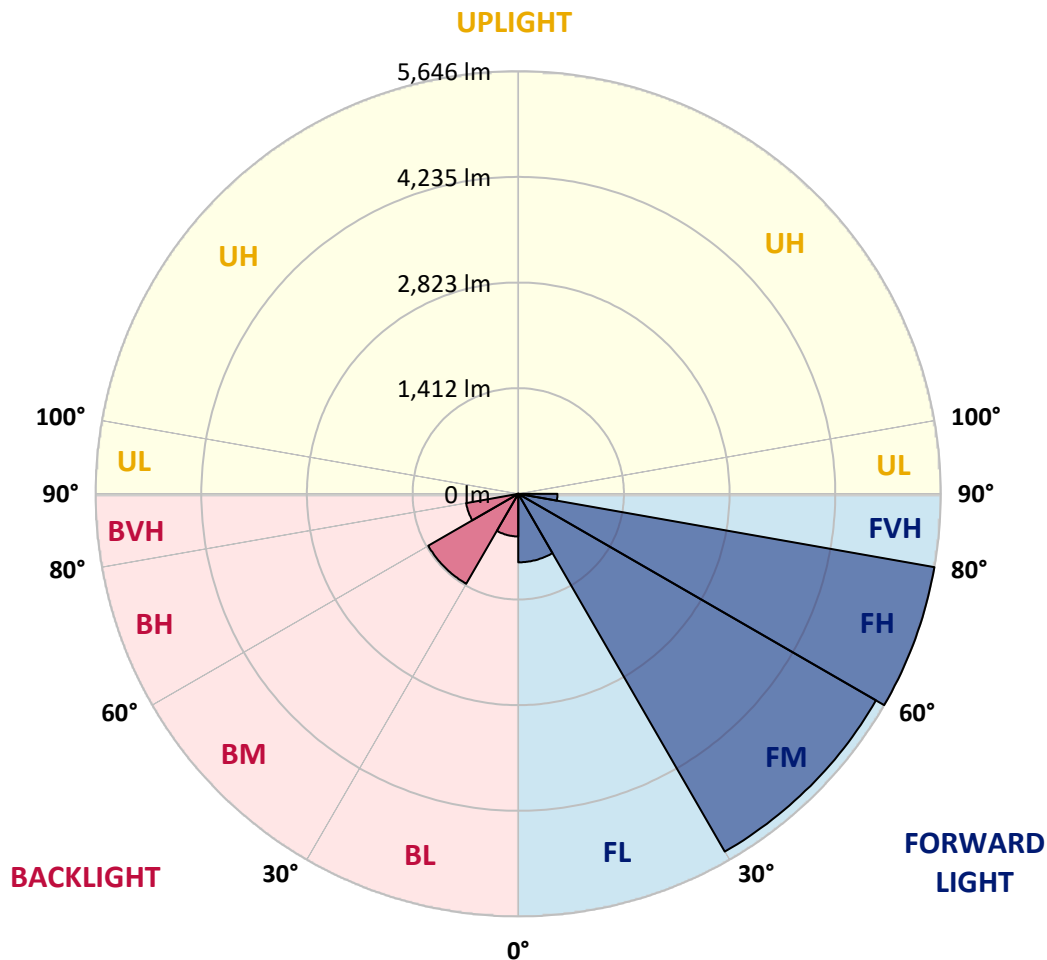


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	915.2	6.0			
FM (30°-60°)	5519.4	36.1			
FH (60°-80°)	5646.2	36.9			G3/7500
FVH (80°-90°)	523.2	3.4			G4/750
BL (0°-30°)	569.9	3.7	B2/1000		
BM (30°-60°)	1388.1	9.1	B2/2500		
BH (60°-80°)	707.9	4.6	B2/1000		G2/1000
BVH (80°-90°)	20.1	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°	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8
2.5°	1635.0	1646.5	1639.1	1612.8	1607.8	1606.2	1588.9	1574.1	1565.0	1562.6	1534.6
5°	1723.9	1732.9	1730.4	1700.8	1692.6	1673.7	1658.9	1620.2	1614.4	1606.2	1572.5
7.5°	1790.5	1792.2	1807.0	1782.3	1774.1	1751.0	1729.6	1694.2	1687.7	1674.5	1626.8
10°	1852.2	1863.7	1872.0	1840.7	1853.9	1825.1	1799.6	1774.9	1747.7	1746.9	1686.8
12.5°	1891.7	1898.3	1916.4	1891.7	1910.6	1909.8	1886.8	1858.8	1843.2	1829.2	1760.9
15°	1916.4	1923.8	1947.7	1966.6	1973.2	1983.9	1983.1	1961.7	1934.5	1929.6	1858.8
17.5°	1955.1	1961.7	1979.8	2010.2	2033.2	2057.1	2076.0	2077.7	2061.2	2055.5	1990.5
20°	2013.5	2012.7	2022.6	2039.8	2083.4	2136.1	2178.1	2193.7	2187.1	2186.3	2138.6
22.5°	2075.2	2071.9	2081.8	2090.0	2135.3	2223.3	2292.4	2331.9	2334.4	2329.5	2321.2
25°	2174.0	2157.5	2156.7	2165.7	2225.8	2327.8	2418.3	2485.8	2492.4	2505.6	2578.8
27.5°	2424.9	2422.5	2349.2	2286.7	2327.0	2443.0	2576.3	2665.2	2695.6	2745.8	2884.1
30°	2786.2	2772.2	2741.7	2596.1	2487.5	2593.6	2761.5	2898.9	2931.0	3109.5	3233.0
32.5°	3110.4	3094.7	3082.4	2947.4	2797.7	2773.8	2942.5	3177.0	3269.2	3545.6	3637.8
35°	3393.4	3384.4	3384.4	3293.8	3142.4	3039.6	3159.7	3473.2	3694.6	4081.3	4106.0
37.5°	3650.1	3657.5	3667.4	3567.9	3490.5	3457.6	3448.5	3840.2	4170.2	4576.7	4580.0
40°	3877.2	3893.7	3913.4	3841.0	3788.4	3817.2	3763.7	4282.9	4693.5	5134.5	5030.9
42.5°	4054.2	4076.4	4175.9	4075.5	4114.2	4172.6	4161.1	4634.3	5142.8	5542.7	5442.3
45°	4185.8	4203.1	4263.2	4292.0	4384.1	4501.0	4526.5	4994.7	5527.9	5914.6	5778.0
47.5°	4288.7	4276.3	4312.5	4459.8	4654.0	4784.8	4886.0	5407.7	5904.7	6258.6	6071.8
50°	4336.4	4334.7	4424.4	4605.5	4889.3	5076.1	5270.3	5946.7	6298.9	6586.9	6375.4
52.5°	4371.8	4400.6	4542.1	4753.6	5123.9	5378.9	5583.0	6468.4	6747.3	6948.1	6708.6
55°	4398.1	4454.1	4593.1	4835.0	5285.1	5639.8	5911.3	6942.3	7249.3	7289.6	7009.0
57.5°	4234.4	4293.6	4513.3	4858.9	5411.0	5865.2	6249.5	7486.2	7793.2	7769.3	7330.7
60°	3957.1	4004.8	4273.0	4790.6	5426.7	6116.2	6733.3	8091.0	8402.9	8399.6	7711.7
62.5°	3664.1	3706.9	3971.9	4565.1	5322.2	6252.8	7297.8	8998.6	9128.6	8999.4	8058.9
65°	3291.4	3335.0	3598.3	4186.6	5064.6	6245.4	7774.2	9969.6	10231.2	9857.7	8449.8
67.5°	2797.7	2867.6	3105.4	3650.1	4568.4	6007.6	8187.3	10701.9	10841.8	10504.4	8692.5
70°	2188.8	2257.1	2471.8	3028.1	3935.7	5463.7	8390.5	10964.4	11036.0	10724.1	8820.1
72.5°	1528.8	1585.6	1682.7	2164.1	3058.5	4624.4	8378.2	10837.7	10834.4	10517.6	8529.6
75°	544.7	621.2	1014.6	1307.5	1780.6	3400.8	7830.2	10316.0	10352.2	10065.0	7931.4
77.5°	141.5	148.1	312.7	631.1	1000.6	1644.9	5815.0	9336.0	9433.9	9100.7	6973.6
80°	103.7	108.6	150.6	439.4	572.7	724.1	3189.3	7650.0	7953.6	7780.0	5346.8
82.5°	73.2	79.0	110.3	289.6	378.5	481.4	1198.1	4154.5	4636.7	4608.7	2638.9
85°	46.1	50.2	69.1	103.7	144.0	193.4	337.4	2132.8	2447.1	2579.6	1153.6
87.5°	21.4	24.7	38.7	61.7	88.0	102.0	102.0	457.5	570.2	605.6	246.0
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°	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8	1528.8
2.5°	1519.8	1529.7	1508.3	1495.9	1470.4	1458.1	1451.5	1439.2	1435.9	1441.6	1447.4
5°	1555.2	1557.6	1514.0	1477.0	1444.9	1408.7	1391.4	1355.2	1339.6	1345.4	1351.9
7.5°	1600.4	1596.3	1529.7	1474.5	1416.9	1366.7	1331.4	1273.8	1257.3	1253.2	1262.2
10°	1643.2	1622.6	1548.6	1473.7	1397.2	1328.1	1273.8	1212.9	1173.4	1168.4	1170.1
12.5°	1720.6	1681.1	1595.5	1490.2	1398.0	1322.3	1243.3	1153.6	1107.5	1092.7	1092.7
15°	1827.5	1761.7	1681.1	1560.1	1450.7	1342.9	1230.2	1113.3	1032.7	997.3	996.5
17.5°	1942.7	1886.8	1801.2	1657.2	1513.2	1360.2	1201.4	1049.9	943.8	893.6	888.7
20°	2101.5	2069.5	1971.5	1774.1	1573.3	1362.6	1165.1	971.8	828.6	760.3	745.5
22.5°	2326.2	2282.6	2118.8	1865.4	1593.8	1342.1	1096.0	845.9	669.8	580.1	571.1
25°	2558.2	2491.6	2262.0	1929.6	1609.5	1300.9	996.5	671.4	481.4	397.4	386.7
27.5°	2814.9	2710.4	2384.6	1990.5	1590.6	1230.2	820.4	467.4	312.7	259.2	248.5
30°	3112.8	2960.6	2516.3	2032.4	1570.0	1087.0	607.3	302.8	202.4	162.9	160.5
32.5°	3482.3	3271.6	2646.3	2053.0	1495.9	900.2	392.5	193.4	125.1	105.3	102.0
35°	3923.3	3629.6	2820.7	2048.9	1375.0	651.7	246.0	113.6	83.1	79.8	79.8
37.5°	4341.3	4019.6	3029.7	2031.6	1183.2	415.5	140.7	74.1	72.4	83.1	88.0
40°	4764.3	4400.6	3255.2	1984.7	940.5	250.1	78.2	65.8	69.1	81.5	86.4
42.5°	5132.1	4700.9	3473.2	1882.7	662.4	134.1	69.1	61.7	65.0	70.8	71.6
45°	5429.1	4979.9	3590.9	1739.5	392.5	84.8	65.8	59.2	56.8	59.2	60.1
47.5°	5748.4	5217.7	3686.3	1528.0	212.3	83.1	65.0	55.1	50.2	48.5	50.2
50°	5986.2	5470.3	3720.1	1215.3	111.9	79.8	61.7	50.2	45.3	48.5	49.4
52.5°	6215.8	5664.5	3704.4	848.4	94.6	73.2	56.8	46.9	42.8	52.7	55.1
55°	6521.9	5903.9	3591.7	413.1	92.2	69.1	51.0	41.1	41.1	41.1	41.1
57.5°	6801.6	6068.5	3366.3	188.4	88.9	63.4	46.1	37.0	31.3	34.6	35.4
60°	7091.3	6322.7	2982.0	120.1	83.9	55.1	39.5	32.1	27.2	27.2	28.0
62.5°	7378.4	6377.0	2448.0	106.1	79.8	50.2	34.6	28.0	23.0	23.0	24.7
65°	7615.4	6286.5	1802.9	94.6	75.7	45.3	31.3	25.5	19.7	18.9	19.7
67.5°	7525.7	5844.7	1170.9	84.8	69.1	41.1	27.2	23.0	18.1	14.8	15.6
70°	7175.2	5179.0	632.8	81.5	62.5	37.9	24.7	20.6	16.5	12.3	12.3
72.5°	6610.7	4364.4	237.8	75.7	57.6	32.9	22.2	20.6	15.6	9.9	9.1
75°	5685.9	3295.5	112.7	68.3	48.5	29.6	22.2	21.4	15.6	6.6	5.8
77.5°	4561.0	1838.2	86.4	57.6	39.5	24.7	22.2	20.6	9.1	3.3	2.5
80°	2451.3	690.4	65.0	42.0	28.8	18.9	20.6	14.8	4.1	0.8	0.0
82.5°	972.6	170.3	45.3	18.9	12.3	8.2	11.5	5.8	0.8	0.0	0.0
85°	245.2	66.7	28.0	9.9	6.6	4.1	1.6	0.0	0.0	0.0	0.0
87.5°	28.0	18.9	8.2	4.9	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)