

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: P233678

Luminaire Tested: **VRDN-C01-D-UNV-T2-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233678
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: VRDN-C01-D-UNV-T2-7030-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1230mA LED AND TYPE II OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6309 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

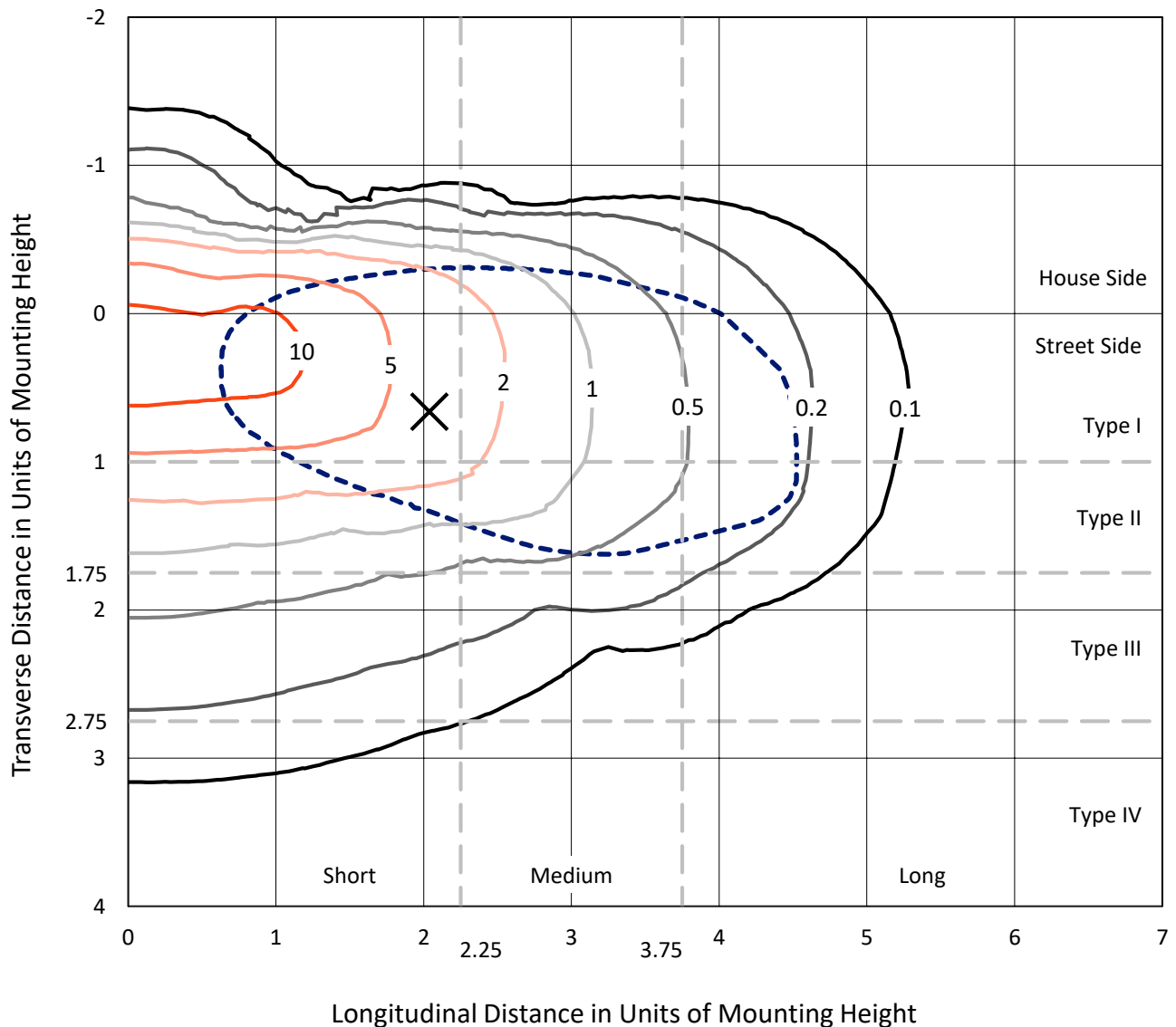
Input Watts (W): 56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

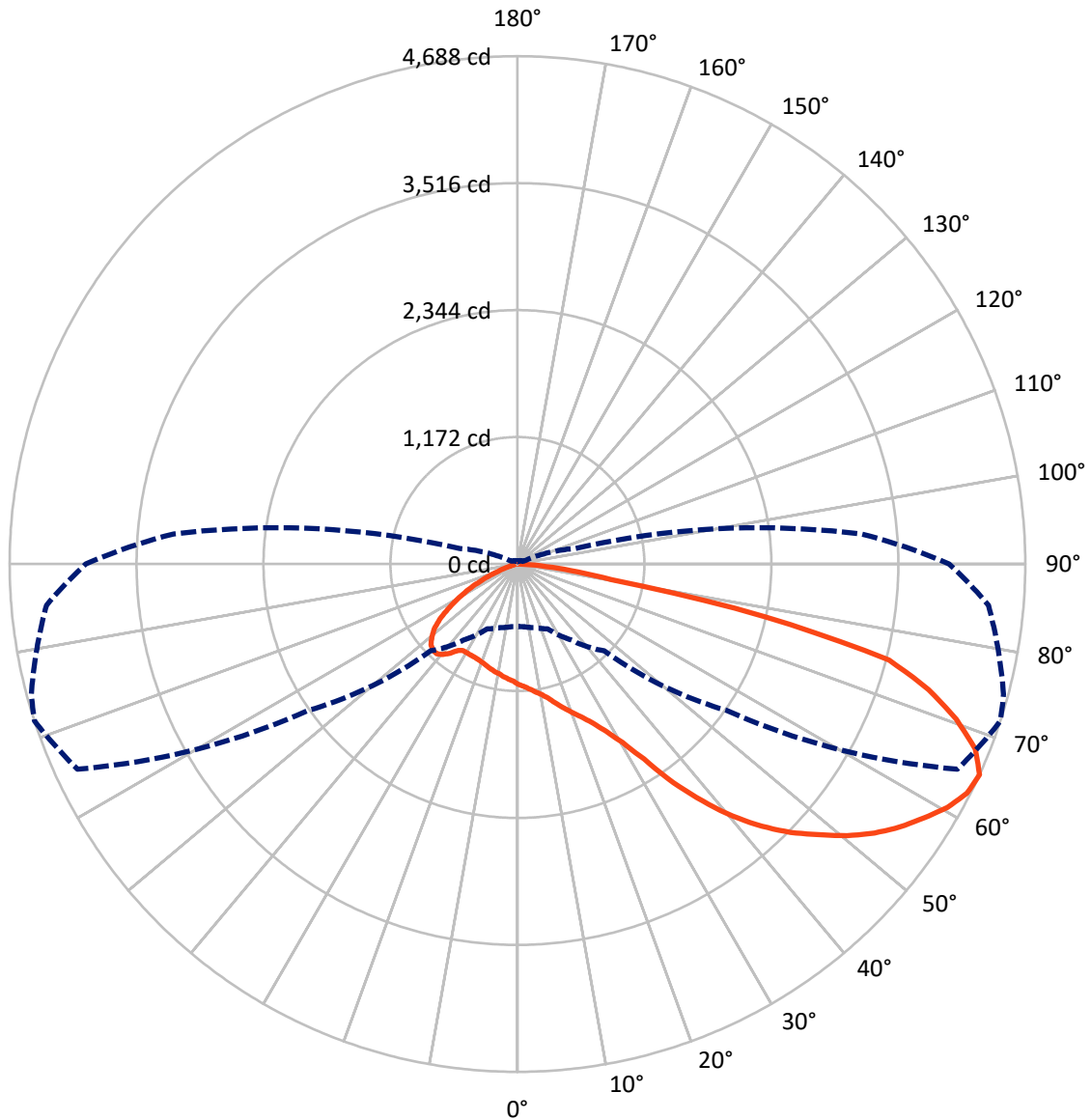
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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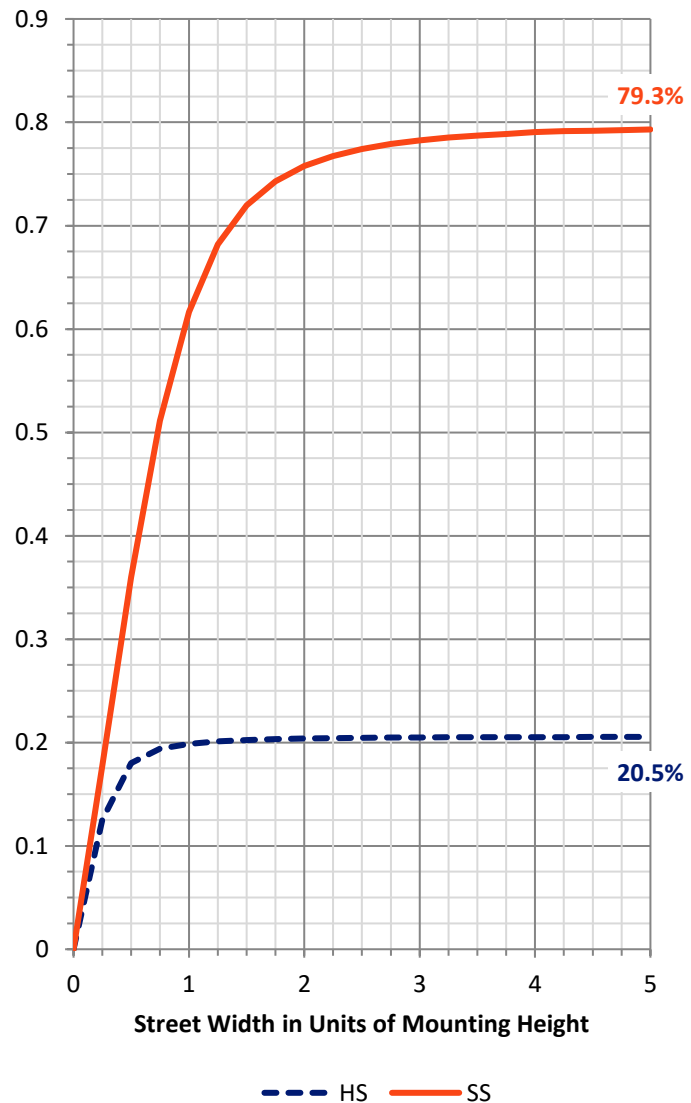
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1311.0	0.0	1311.0
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	4998.0	0.0	4998.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	6309.0	0.0	6309.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.7
10°-20°	323.5	5.1
20°-30°	540.6	8.6
30°-40°	799.6	12.7
40°-50°	1105.5	17.5
50°-60°	1293.6	20.5
60°-70°	1285.8	20.4
70°-80°	770.1	12.2
80°-90°	83.8	1.3
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°	6309.0	100.0
0°-180°	6309.0	100.0



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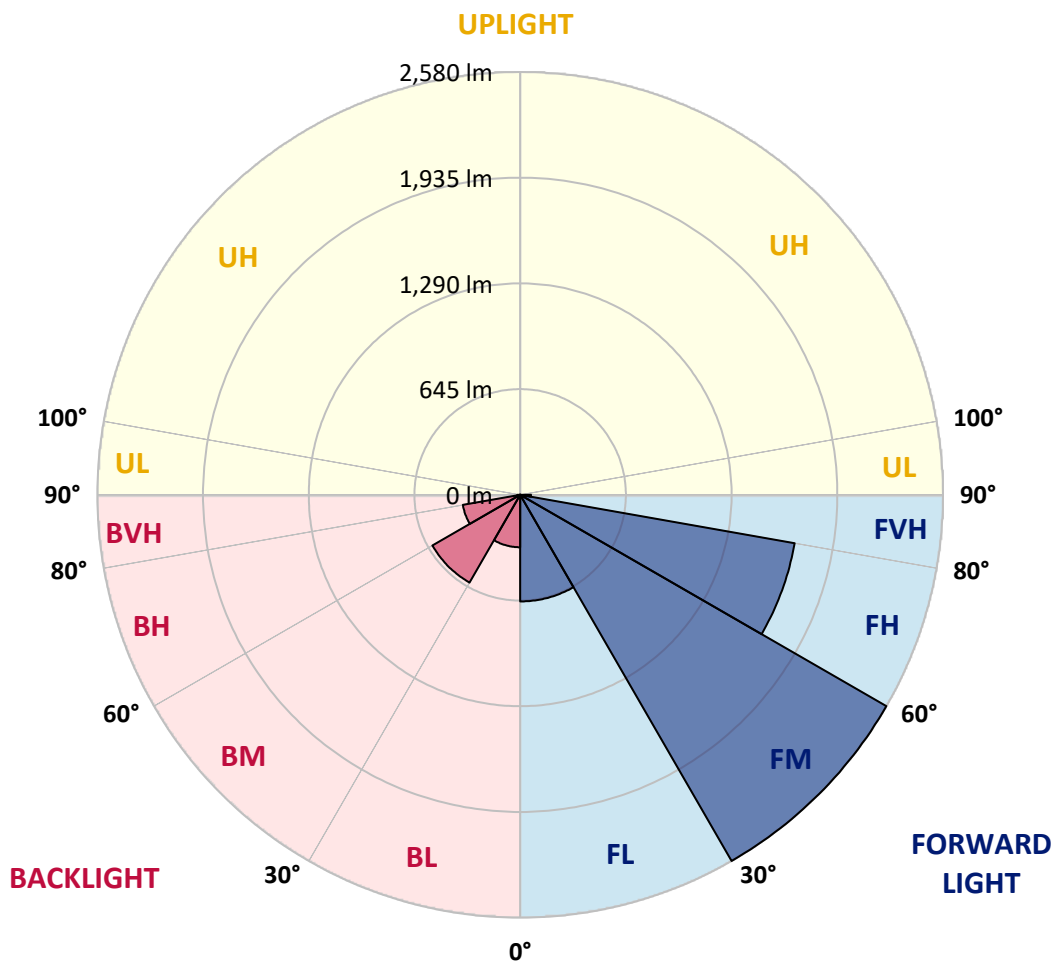
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	650.6	10.3			
FM	(30°-60°)	2580.2	40.9			
FH	(60°-80°)	1700.9	27.0			G1/1800
FVH	(80°-90°)	66.3	1.1			G1/100
BL	(0°-30°)	320.1	5.1	B1/500		
BM	(30°-60°)	618.5	9.8	B1/1000		
BH	(60°-80°)	355.0	5.6	B1/500		G1/500
BVH	(80°-90°)	17.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9
2.5°	1205.6	1206.6	1207.1	1188.1	1177.8	1166.0	1154.6	1142.3	1129.4	1124.8	1107.8
5°	1279.7	1280.7	1277.7	1260.2	1241.1	1223.6	1202.0	1179.9	1158.2	1152.1	1123.2
7.5°	1351.3	1350.8	1348.2	1326.0	1302.4	1279.2	1248.8	1219.0	1190.7	1180.9	1138.2
10°	1410.5	1411.5	1413.0	1389.4	1366.2	1338.4	1301.3	1257.1	1224.6	1209.2	1153.6
12.5°	1475.3	1472.2	1476.4	1453.2	1421.3	1396.1	1362.6	1310.6	1272.0	1252.4	1183.5
15°	1549.5	1549.5	1543.8	1524.7	1492.3	1461.4	1428.0	1380.1	1333.8	1303.9	1223.6
17.5°	1600.4	1597.3	1595.8	1579.3	1551.5	1524.7	1499.0	1450.1	1399.7	1363.1	1261.2
20°	1622.0	1623.1	1630.3	1618.4	1603.5	1587.5	1559.2	1521.1	1465.5	1426.4	1301.3
22.5°	1663.7	1664.8	1673.5	1665.3	1661.2	1657.0	1630.8	1597.3	1538.1	1500.6	1351.8
25°	1666.3	1667.3	1691.0	1704.4	1725.5	1735.3	1717.3	1688.4	1628.2	1591.7	1426.9
27.5°	1674.0	1677.1	1701.3	1738.4	1794.0	1813.5	1803.2	1802.2	1751.2	1712.6	1524.7
30°	1667.3	1670.4	1705.4	1756.9	1834.1	1891.8	1903.6	1934.0	1913.4	1884.6	1660.6
32.5°	1620.0	1631.3	1673.0	1754.8	1868.6	1973.1	2011.2	2115.2	2146.1	2149.2	1933.5
35°	1534.0	1540.2	1615.9	1731.2	1891.8	2049.8	2154.8	2346.8	2477.6	2471.9	2235.6
37.5°	1468.6	1470.7	1548.4	1691.0	1904.6	2132.2	2318.5	2625.8	2776.2	2782.8	2508.5
40°	1384.7	1399.7	1474.3	1642.6	1897.4	2201.7	2481.2	2885.8	3060.8	3053.6	2747.8
42.5°	1306.5	1315.2	1389.4	1567.0	1871.2	2254.7	2640.8	3137.5	3309.5	3285.8	2977.4
45°	1225.2	1240.1	1308.0	1469.2	1819.2	2284.5	2785.4	3376.4	3533.9	3504.5	3179.7
47.5°	1143.8	1154.6	1226.7	1379.6	1721.4	2283.5	2927.5	3600.3	3733.1	3712.5	3371.2
50°	870.5	894.2	1083.6	1285.9	1583.9	2240.3	3042.3	3812.9	3942.1	3910.2	3558.1
52.5°	797.9	805.6	858.6	1177.3	1437.2	2137.3	3131.9	4012.6	4126.4	4089.8	3734.1
55°	754.1	763.4	785.0	957.0	1316.8	1968.0	3168.9	4199.0	4283.9	4246.8	3891.1
57.5°	696.0	705.2	748.0	824.1	1191.2	1710.1	3114.4	4364.2	4423.4	4382.7	4036.8
60°	655.8	659.9	701.1	760.8	1053.7	1449.6	2932.1	4498.6	4560.3	4512.0	4181.0
62.5°	618.8	623.4	652.7	711.9	940.0	1258.6	2648.5	4531.5	4657.6	4620.1	4312.7
65°	576.0	580.1	606.9	659.4	851.9	1134.0	2356.1	4481.1	4687.5	4644.8	4363.7
67.5°	519.4	525.1	546.2	593.5	736.6	993.0	1921.1	4387.9	4556.7	4512.5	4259.2
70°	449.4	452.0	477.2	519.9	622.4	861.7	1506.7	4056.4	4297.8	4248.9	3964.8
72.5°	362.9	367.5	394.8	439.6	511.2	709.9	1076.4	3505.1	3969.9	3951.4	3536.0
75°	242.5	260.5	325.3	370.6	422.6	554.4	722.7	2460.1	3544.2	3558.6	3020.7
77.5°	46.3	47.9	136.4	202.8	247.1	338.7	447.3	1208.7	2336.0	2588.8	2277.9
80°	30.4	32.9	58.2	142.1	163.7	167.8	229.6	529.7	880.3	1113.4	1313.7
82.5°	16.0	19.0	35.0	82.4	75.2	41.7	75.2	273.3	488.0	560.6	662.5
85°	6.7	7.7	17.0	28.3	21.1	17.5	17.5	109.1	216.2	250.2	260.0
87.5°	1.0	1.0	3.6	5.1	3.1	2.1	1.5	0.5	0.5	0.5	0.5
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°	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9	1111.9
2.5°	1107.8	1098.5	1085.6	1070.7	1059.9	1054.2	1049.6	1037.3	1033.1	1041.4	1039.3
5°	1112.4	1101.6	1072.3	1048.1	1023.9	1008.9	992.5	970.9	961.6	966.7	965.2
7.5°	1115.5	1102.1	1058.4	1020.8	980.1	951.8	930.2	901.9	888.0	893.1	886.9
10°	1120.1	1100.1	1041.9	992.0	938.9	897.8	865.8	832.9	818.5	822.6	817.5
12.5°	1139.7	1107.3	1034.2	967.3	902.4	850.9	810.8	775.8	755.2	759.3	755.2
15°	1171.6	1121.7	1022.8	935.9	863.8	805.1	758.8	718.6	694.9	700.6	695.5
17.5°	1205.1	1139.2	1012.6	900.8	822.6	757.2	708.8	674.9	636.8	640.4	632.7
20°	1233.9	1155.7	1006.9	867.9	784.0	706.3	648.1	624.9	572.4	559.0	550.3
22.5°	1274.1	1179.9	1002.3	841.1	736.1	655.3	586.3	543.1	486.5	458.1	455.6
25°	1331.2	1215.9	1001.7	820.0	692.9	601.8	505.5	432.9	383.0	349.5	344.9
27.5°	1403.8	1263.8	1007.4	798.9	649.6	534.3	406.2	325.8	281.1	255.3	250.7
30°	1508.3	1326.6	1014.6	774.7	601.3	446.8	302.7	239.9	202.8	184.3	180.7
32.5°	1732.2	1487.7	1025.4	749.5	543.1	336.7	219.8	174.0	145.7	134.4	140.0
35°	2001.9	1706.5	1073.8	717.1	466.9	239.9	158.5	124.1	104.5	107.1	110.2
37.5°	2237.7	1915.5	1182.4	675.4	365.0	176.1	109.1	92.7	92.7	100.9	108.1
40°	2460.1	2103.9	1279.7	618.8	255.8	121.5	84.4	86.0	84.4	89.6	88.0
42.5°	2670.1	2282.5	1355.9	551.3	167.3	83.9	76.7	79.8	77.2	78.2	73.6
45°	2868.8	2467.3	1398.1	452.0	111.2	73.1	70.5	75.7	75.2	74.1	69.5
47.5°	3052.6	2630.0	1419.2	325.8	76.7	65.9	66.4	70.0	71.6	70.5	67.9
50°	3232.8	2792.1	1400.2	195.1	69.0	60.2	63.8	63.8	66.9	61.3	59.2
52.5°	3405.2	2954.8	1339.9	118.4	63.3	56.1	59.2	58.2	59.7	54.1	53.0
55°	3567.4	3075.7	1221.0	93.2	59.7	53.5	54.1	55.1	52.5	46.3	48.4
57.5°	3738.8	3178.7	1055.3	84.4	58.2	49.9	51.0	50.4	46.3	40.7	40.7
60°	3879.8	3253.3	889.0	76.7	57.1	48.9	45.3	44.3	38.1	35.0	34.5
62.5°	3977.1	3274.4	726.9	68.5	54.1	45.3	40.7	37.6	31.9	28.8	27.8
65°	3984.8	3184.4	553.4	61.8	51.0	42.2	37.6	30.9	25.2	22.6	21.6
67.5°	3826.8	2934.2	390.2	56.6	45.8	39.1	32.9	24.7	20.1	18.0	17.5
70°	3496.3	2623.3	238.9	49.4	41.7	36.5	34.0	20.1	16.5	13.9	13.9
72.5°	3068.0	2272.2	140.0	42.2	35.0	29.3	22.6	17.0	13.9	10.8	10.8
75°	2629.4	1803.8	86.0	31.9	25.7	23.2	17.5	14.4	11.3	8.2	8.2
77.5°	1893.3	1331.7	66.9	20.6	16.0	16.5	12.9	11.3	9.3	6.7	6.7
80°	1161.8	810.8	47.9	13.9	9.3	9.3	9.3	8.8	6.7	5.7	5.1
82.5°	588.9	370.6	23.7	8.2	5.7	5.7	5.7	6.2	5.1	4.1	4.1
85°	206.9	104.0	7.2	4.1	3.6	3.6	3.1	3.1	2.6	2.1	2.1
87.5°	0.5	1.0	1.0	1.5	2.1	2.1	1.5	1.0	0.5	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)