

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: P233574

Luminaire Tested: **VRDN-C01-D-UNV-T4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233574  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)  
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-T4-7030  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1230mA LED AND TYPE IV OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6859 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

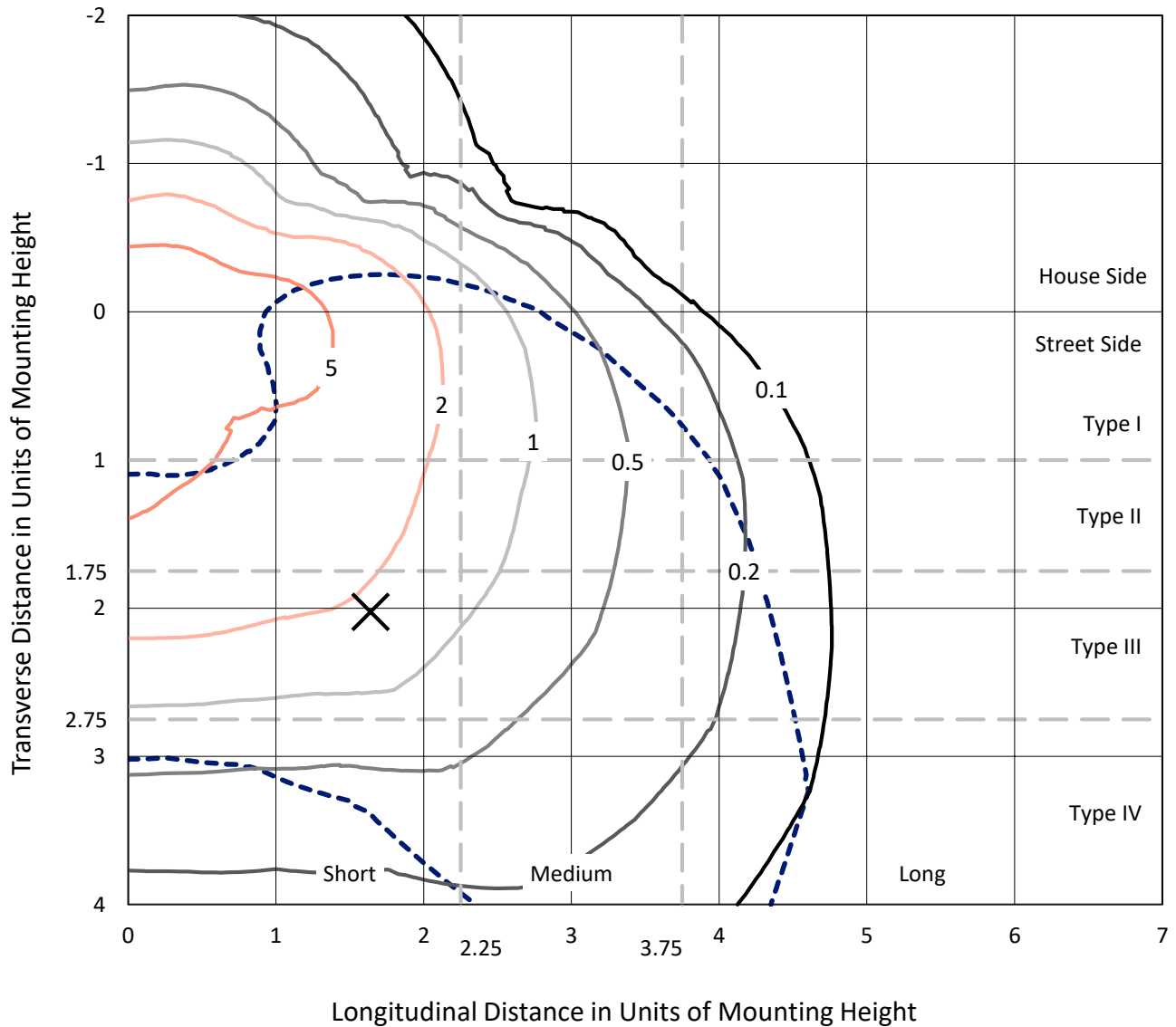
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P233574  
 CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030

### Iso-Footcandle Lines of Horizontal Illumination

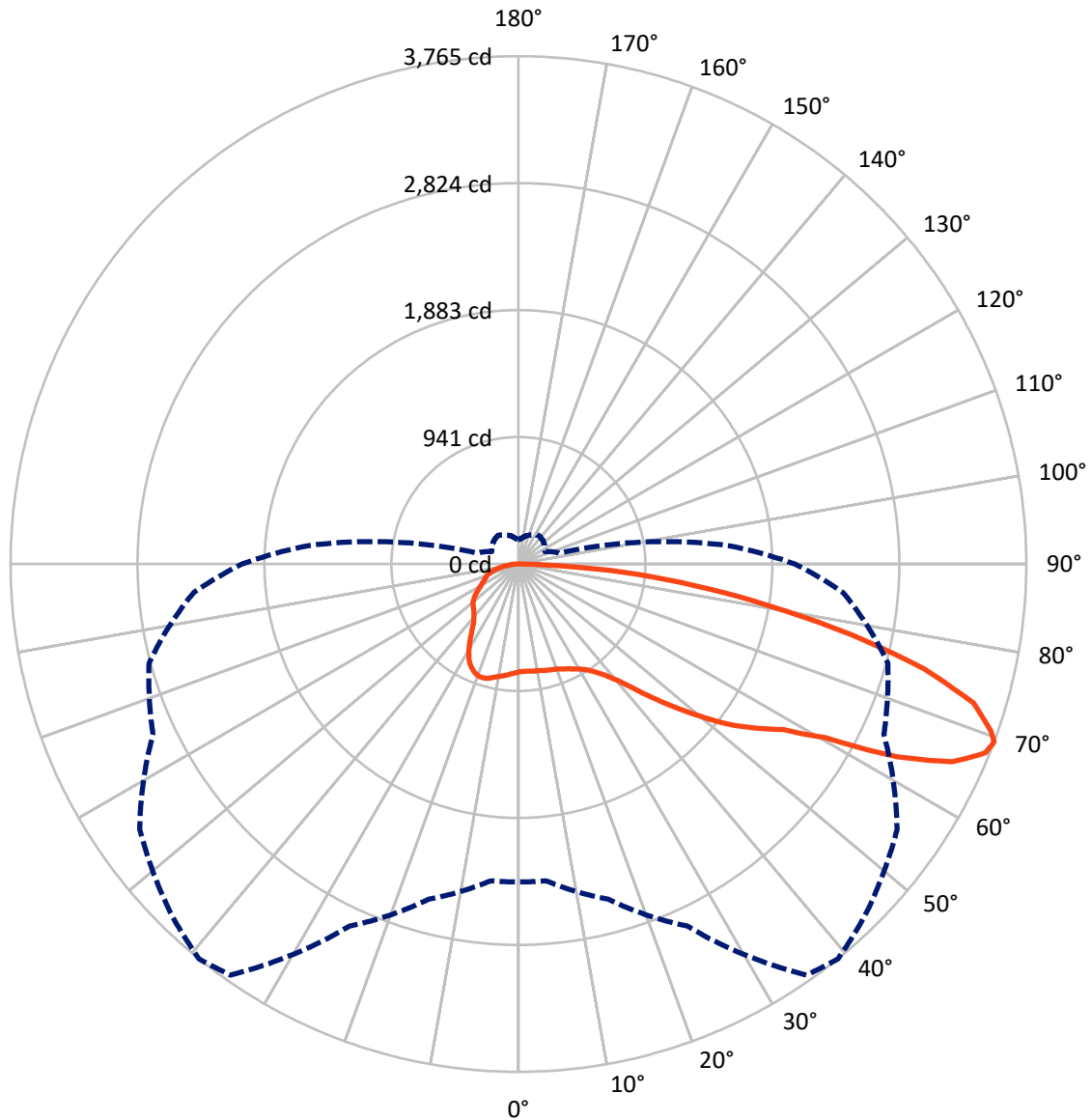
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P233574  
CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P233574

CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030

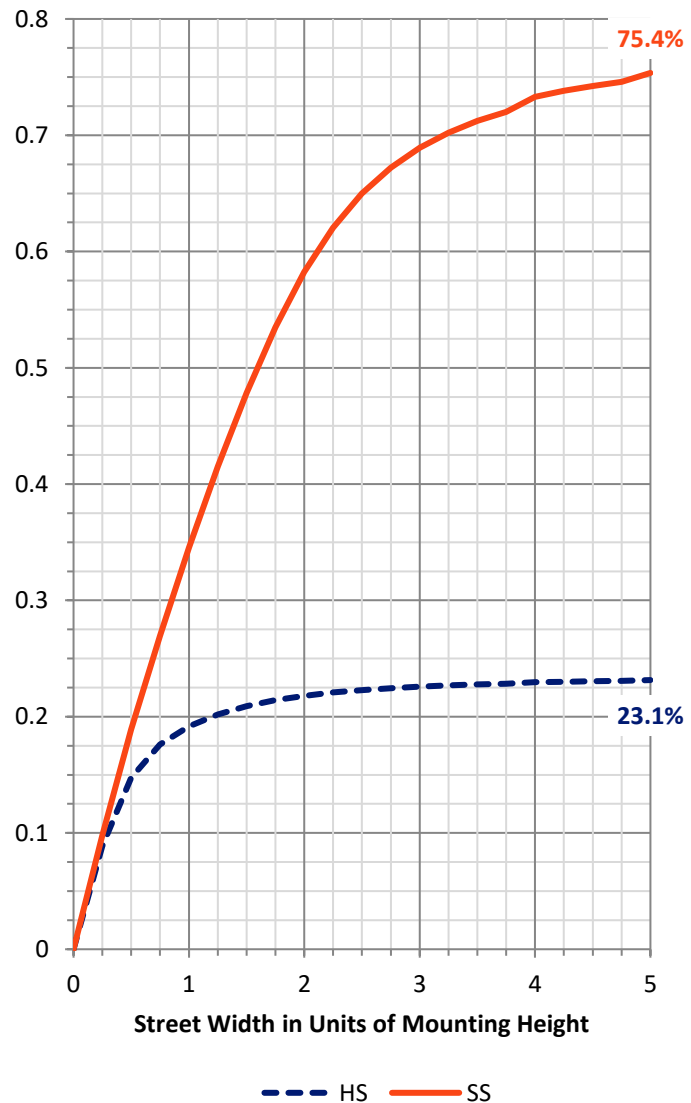
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1607.9	0.0	1607.9
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	5251.1	0.0	5251.1
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	6859.0	0.0	6859.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.6	1.1
10°-20°	240.0	3.5
20°-30°	404.0	5.9
30°-40°	585.3	8.5
40°-50°	946.0	13.8
50°-60°	1385.0	20.2
60°-70°	1733.5	25.3
70°-80°	1239.2	18.1
80°-90°	248.5	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°	6859.0	100.0
0°-180°	6859.0	100.0



REPORT NUMBER: P233574

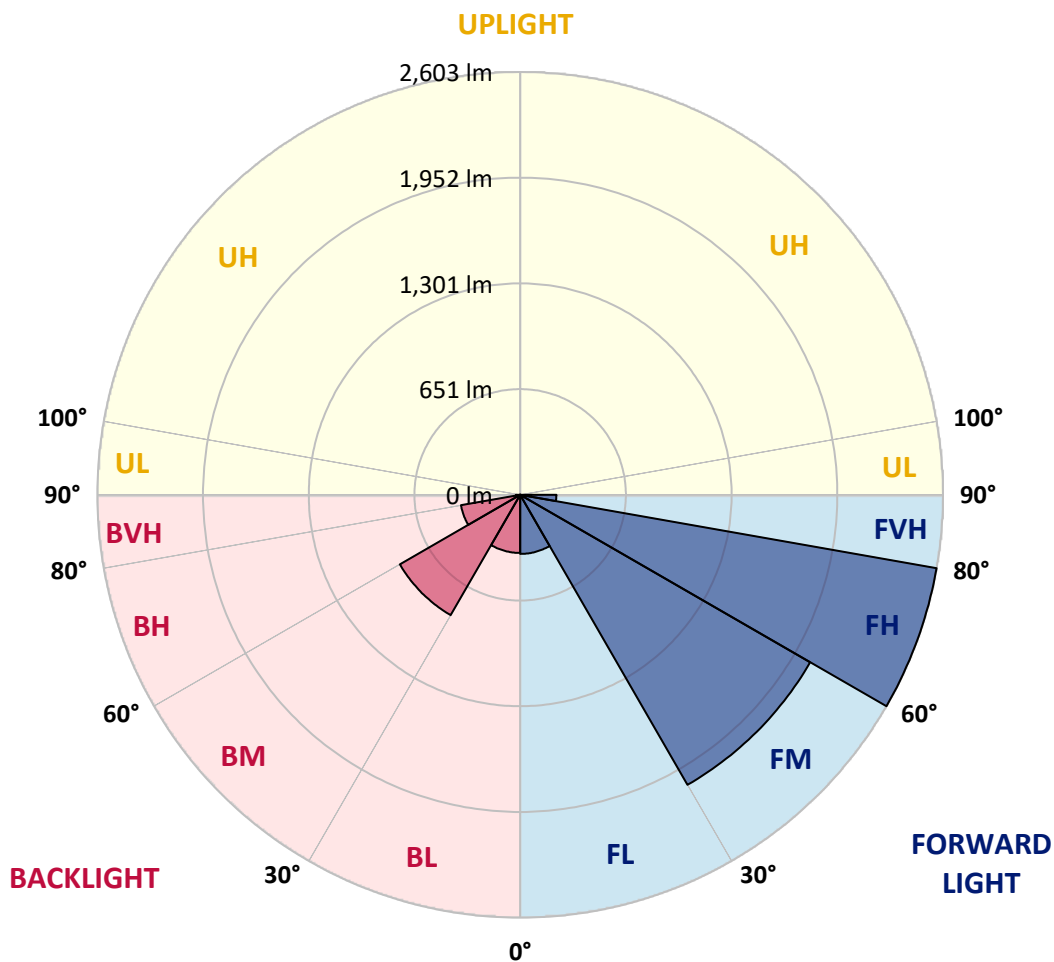
CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.9	5.3			
FM	(30°-60°)	2061.2	30.1			
FH	(60°-80°)	2603.0	37.9			G2/5000
FVH	(80°-90°)	223.1	3.3			G2/225
BL	(0°-30°)	357.7	5.2	B1/500		
BM	(30°-60°)	855.0	12.5	B1/1000		
BH	(60°-80°)	369.8	5.4	B1/500		G1/500
BVH	(80°-90°)	25.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





REPORT NUMBER: P233574

CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	798.9	798.9	798.9	798.9	798.9	798.9	798.9	798.9	798.9	798.9	798.9
2.5°	812.8	811.6	809.1	798.9	797.7	797.0	798.3	794.5	793.9	795.1	793.9
5°	813.5	812.2	809.1	800.2	798.9	797.7	798.3	795.1	795.8	798.9	798.9
7.5°	814.7	813.5	810.3	800.8	803.4	802.1	804.6	800.2	800.2	802.7	803.4
10°	811.6	810.9	809.1	802.1	805.9	803.4	805.9	806.5	809.1	810.9	810.3
12.5°	803.4	803.4	803.4	800.2	810.9	810.3	814.7	819.2	825.5	828.6	830.5
15°	798.3	797.7	802.1	801.5	814.7	816.6	824.2	835.6	845.1	853.3	855.8
17.5°	803.4	803.4	809.1	807.8	821.1	822.3	830.5	847.0	862.8	878.6	885.5
20°	809.1	809.7	816.6	818.5	831.2	830.5	838.8	859.0	880.5	903.9	915.9
22.5°	826.8	826.1	831.8	828.0	842.6	845.1	852.0	869.7	900.1	929.8	949.4
25°	840.0	841.9	847.6	845.1	857.1	860.3	871.6	888.7	924.7	960.1	994.9
27.5°	852.7	856.5	860.9	860.3	876.7	880.5	889.3	915.9	957.6	999.9	1048.6
30°	871.6	870.4	873.5	879.2	900.7	903.2	914.0	946.2	996.8	1051.8	1116.9
32.5°	896.9	895.6	898.8	903.9	929.8	936.1	950.6	985.4	1049.2	1115.6	1195.3
35°	936.7	939.9	942.4	948.7	974.0	982.9	1002.5	1046.7	1120.7	1226.9	1340.6
37.5°	1075.2	1068.2	1054.3	1029.0	1036.0	1046.1	1073.9	1137.1	1244.6	1424.7	1529.0
40°	1291.3	1283.1	1239.5	1165.5	1132.0	1134.6	1161.8	1247.7	1394.4	1657.3	1753.4
42.5°	1494.9	1484.7	1432.9	1340.6	1274.3	1266.7	1269.2	1368.4	1558.7	1889.9	1941.1
45°	1687.0	1692.1	1613.1	1542.3	1466.4	1431.6	1420.9	1494.9	1741.4	2091.5	2107.3
47.5°	1870.9	1874.7	1785.6	1717.3	1644.0	1603.6	1582.7	1640.2	1909.5	2254.6	2240.1
50°	2058.7	2068.8	1946.8	1888.6	1821.0	1791.9	1771.7	1809.6	2095.3	2410.7	2365.8
52.5°	2323.5	2281.2	2121.2	2039.1	1991.0	1982.2	1961.3	1992.3	2292.5	2548.5	2455.0
55°	2618.0	2527.7	2359.5	2216.0	2149.7	2149.7	2131.4	2167.4	2496.1	2651.5	2527.7
57.5°	2713.5	2722.3	2664.2	2508.1	2329.8	2315.9	2298.2	2347.5	2670.5	2743.8	2554.8
60°	2880.4	2905.0	2949.9	2819.7	2731.8	2613.6	2506.2	2532.7	2820.9	2819.7	2583.9
62.5°	2963.2	2986.5	3126.9	3056.7	3139.5	3147.7	2946.7	2741.9	2932.2	2857.6	2597.8
65°	2884.8	2901.2	3088.3	3180.6	3420.8	3535.2	3435.9	3023.2	2991.0	2841.8	2546.0
67.5°	2627.5	2658.5	2813.4	3094.6	3671.7	3735.6	3642.6	3409.4	3016.3	2846.9	2504.3
69°	2357.0	2357.6	2572.5	2962.5	3721.0	3765.3	3651.5	3427.7	2989.7	2834.8	2415.2
70°	2204.7	2220.5	2379.8	2848.1	3702.7	3717.2	3630.0	3427.1	2971.4	2831.1	2330.5
72.5°	1720.5	1712.3	1870.9	2381.7	3495.4	3527.6	3431.5	3330.4	2956.2	2668.0	1971.4
75°	1202.8	1228.1	1383.6	1804.6	3011.8	3108.5	3108.5	3199.6	2721.1	2279.9	1425.3
77.5°	895.0	898.8	1023.3	1378.6	2423.4	2523.9	2616.2	2692.6	2126.9	1561.9	637.1
80°	606.2	611.8	725.6	1017.0	1795.7	1888.0	2034.0	1852.6	1265.4	540.4	72.7
82.5°	381.8	389.4	479.7	714.2	1279.9	1321.7	1366.5	1046.1	421.6	62.6	46.1
85°	226.9	228.2	289.5	456.4	780.6	783.1	735.1	481.6	113.1	37.3	29.1
87.5°	94.8	99.9	126.4	202.3	228.8	180.8	112.5	38.6	17.1	15.2	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P233574

CATALOG NUMBER: VRDN-C01-D-UNV-T4-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	798.9	798.9	798.9	798.9	798.9	798.9	798.9	798.9	798.9	798.9	798.9
2.5°	790.1	797.0	795.8	797.7	800.2	805.3	810.9	808.4	811.6	818.5	818.5
5°	797.0	802.7	804.6	808.4	811.6	816.6	820.4	819.2	826.1	836.2	836.2
7.5°	802.7	807.2	813.5	817.9	821.1	831.2	835.0	832.4	837.5	849.5	850.1
10°	810.9	815.4	824.9	829.3	835.6	840.7	845.7	845.1	850.1	860.9	862.8
12.5°	831.2	834.3	847.6	853.9	853.9	860.3	856.5	850.1	852.7	859.0	860.3
15°	857.7	862.1	879.2	882.4	879.2	880.5	871.6	851.4	841.3	843.2	843.8
17.5°	888.1	895.6	915.2	910.8	907.0	897.5	874.8	844.4	814.1	802.7	804.6
20°	920.3	929.8	952.5	943.1	929.1	904.5	867.8	816.0	769.2	742.1	740.8
22.5°	957.6	969.6	991.1	974.7	943.7	900.7	844.4	781.2	721.8	679.5	677.0
25°	1008.8	1022.1	1029.6	996.8	946.2	886.8	810.9	733.8	659.3	608.7	604.9
27.5°	1066.9	1073.9	1058.7	1009.4	934.2	857.1	769.2	673.8	591.6	549.9	544.2
30°	1131.4	1125.7	1078.3	1003.1	903.2	810.3	704.1	597.3	531.6	498.1	493.0
32.5°	1206.0	1188.3	1093.5	985.4	862.1	749.0	633.3	548.6	496.2	462.7	460.1
35°	1328.6	1278.1	1118.1	958.2	807.8	677.0	568.2	506.9	465.8	424.1	417.8
37.5°	1506.2	1410.8	1154.2	932.9	749.0	607.4	518.9	473.4	437.4	390.6	381.8
40°	1690.8	1566.9	1213.6	905.1	694.0	556.2	491.8	459.5	424.1	379.9	367.9
42.5°	1859.6	1715.4	1283.1	870.4	636.5	515.1	478.5	455.7	420.3	378.6	369.1
45°	2012.5	1855.1	1354.5	830.5	573.3	482.3	467.7	448.8	412.7	372.9	365.3
47.5°	2141.5	1974.0	1426.6	784.4	512.6	462.0	456.4	436.1	402.6	364.1	357.8
50°	2248.3	2059.3	1467.7	735.7	462.7	446.9	439.9	414.6	380.5	344.5	340.7
52.5°	2327.3	2112.4	1505.0	709.8	423.5	422.2	417.8	393.1	360.3	323.0	315.4
55°	2382.3	2156.0	1488.5	689.6	381.8	391.3	388.7	373.6	345.7	302.1	295.8
57.5°	2385.4	2159.8	1453.1	569.5	340.7	354.0	358.4	360.9	329.9	291.4	283.8
60°	2382.3	2132.0	1387.4	417.8	300.9	316.7	333.1	333.1	311.6	273.7	268.0
62.5°	2367.7	2077.0	1234.4	297.7	269.3	290.1	311.6	302.1	283.8	253.5	247.8
65°	2301.4	1985.3	965.8	242.7	256.0	275.0	285.1	271.8	248.4	216.8	214.3
67.5°	2180.7	1775.5	558.8	222.5	244.6	261.7	269.9	249.7	227.5	197.2	195.9
69°	2047.9	1563.1	314.8	217.4	237.7	252.8	259.8	237.7	216.2	187.1	181.4
70°	1929.1	1373.5	204.8	213.0	230.7	247.1	252.2	229.4	209.2	179.5	175.7
72.5°	1461.4	827.4	137.8	194.7	211.7	224.4	232.0	210.5	187.7	158.0	150.4
75°	798.3	225.0	121.4	166.9	188.4	205.4	207.3	180.1	147.3	116.9	113.8
77.5°	155.5	77.1	104.3	137.8	149.8	170.0	168.8	150.4	127.7	99.2	95.4
80°	58.8	55.6	87.2	98.6	105.6	127.0	134.6	121.4	106.2	67.6	58.2
82.5°	39.8	41.1	65.1	58.2	64.5	75.2	94.8	92.3	84.1	46.1	41.1
85°	27.8	32.2	36.0	24.7	31.6	47.4	62.6	60.7	51.8	32.2	29.1
87.5°	8.2	8.8	10.1	12.6	19.6	35.4	51.2	42.3	28.4	24.0	20.9
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)