

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: STREETWORKS

Report Number: P509344

Luminaire Tested: **VERD-CA2-80-722-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-80-722-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1100mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8582 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

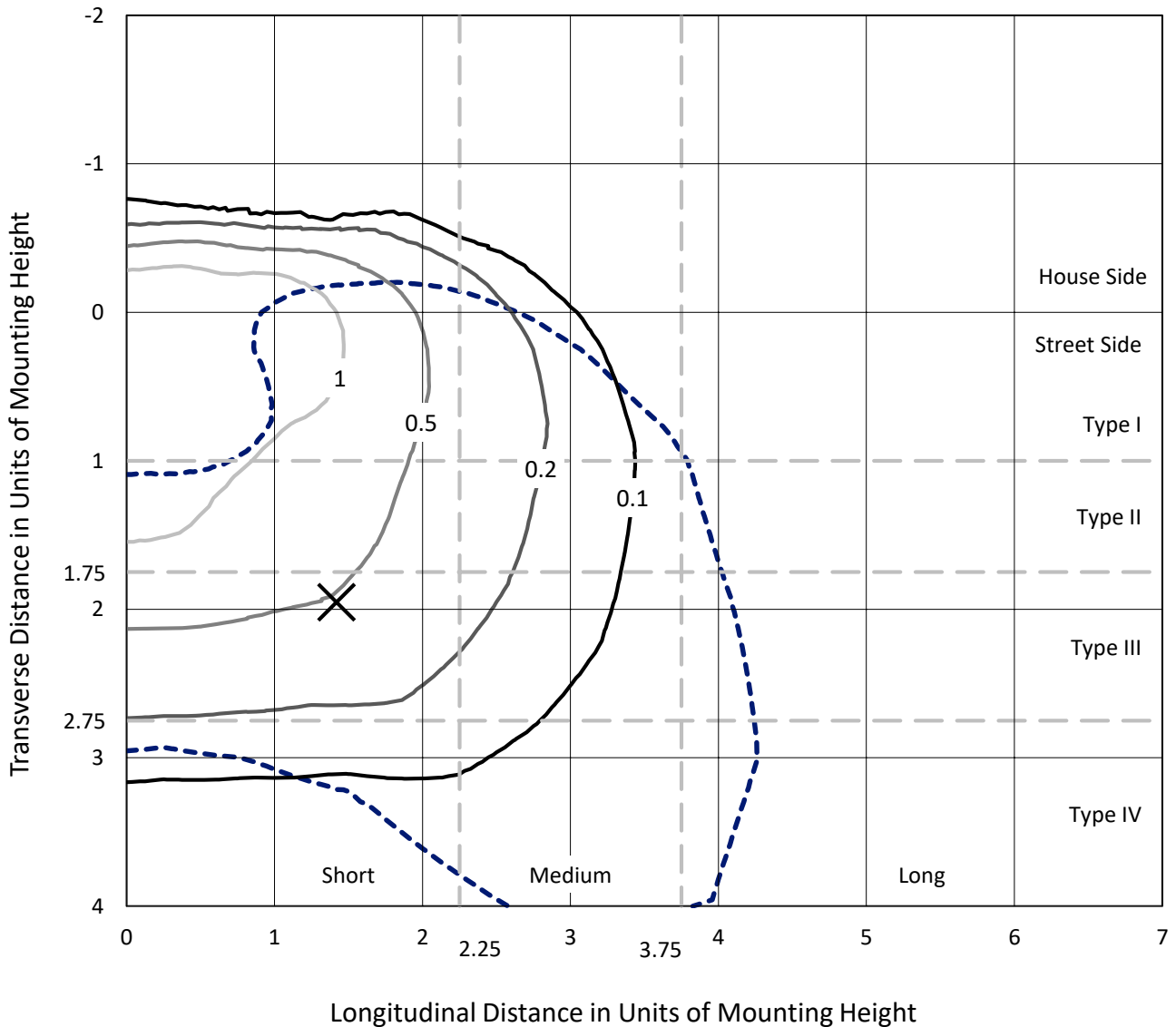
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

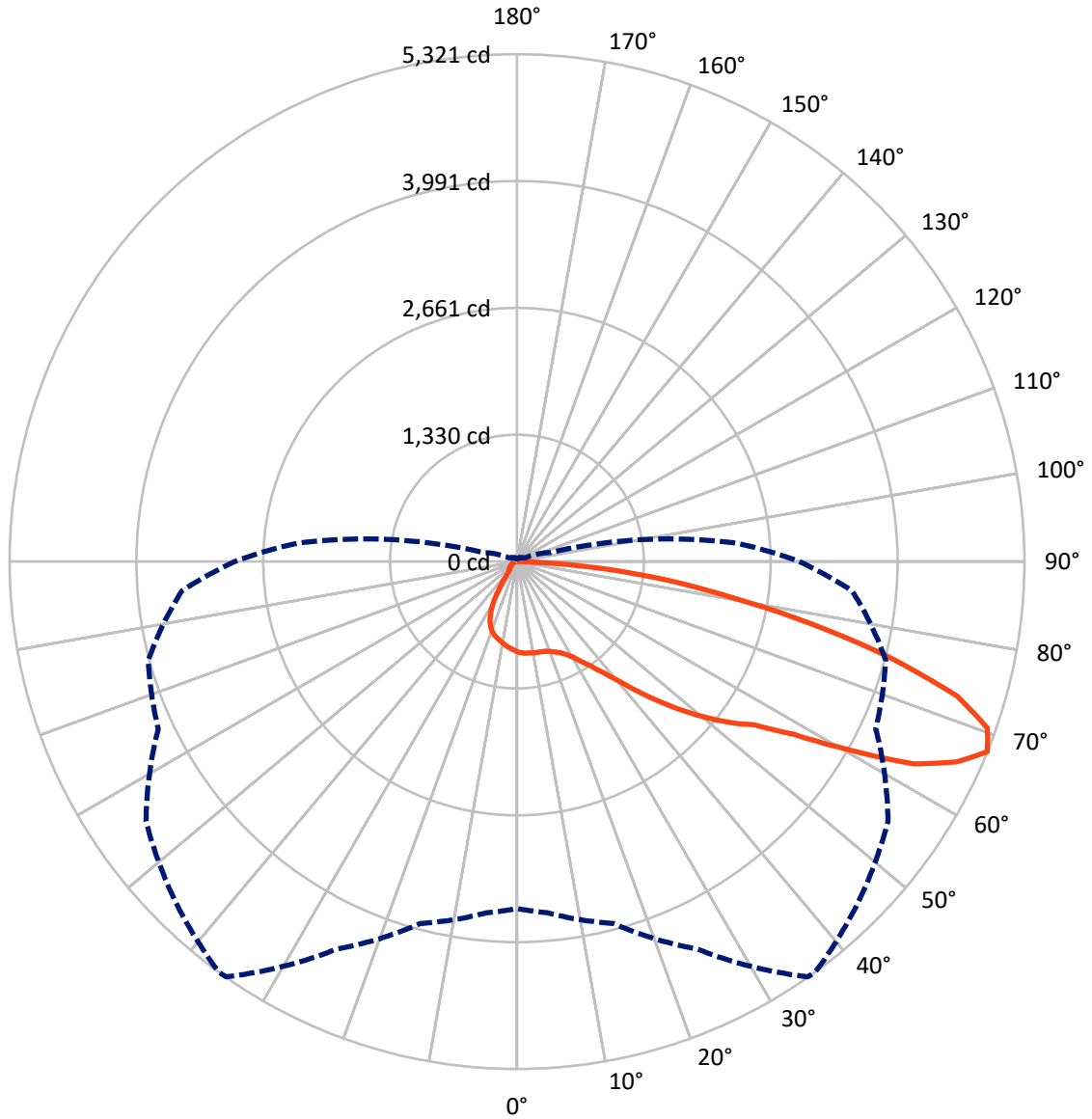
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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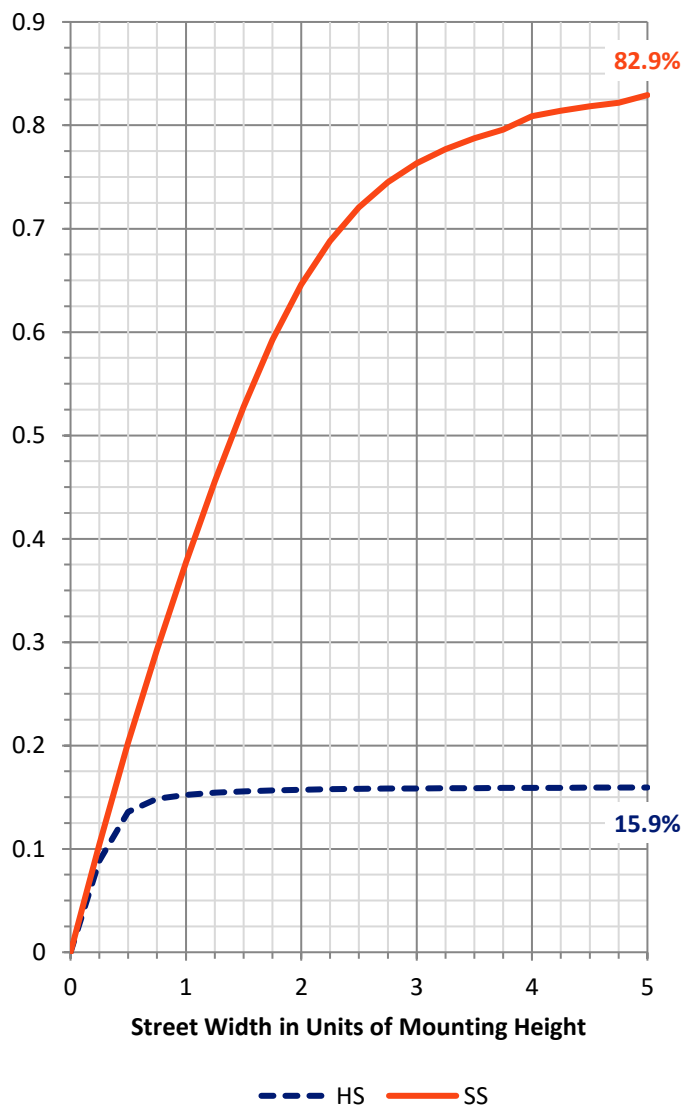
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1384.0	0.0	1384.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	7198.0	0.0	7198.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	8582.0	0.0	8582.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.5	1.0
10°-20°	265.2	3.1
20°-30°	438.6	5.1
30°-40°	695.7	8.1
40°-50°	1200.8	14.0
50°-60°	1779.8	20.7
60°-70°	2301.1	26.8
70°-80°	1553.3	18.1
80°-90°	258.2	3.0
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°	8582.0	100.0
0°-180°	8582.0	100.0

Coefficient of Utilization



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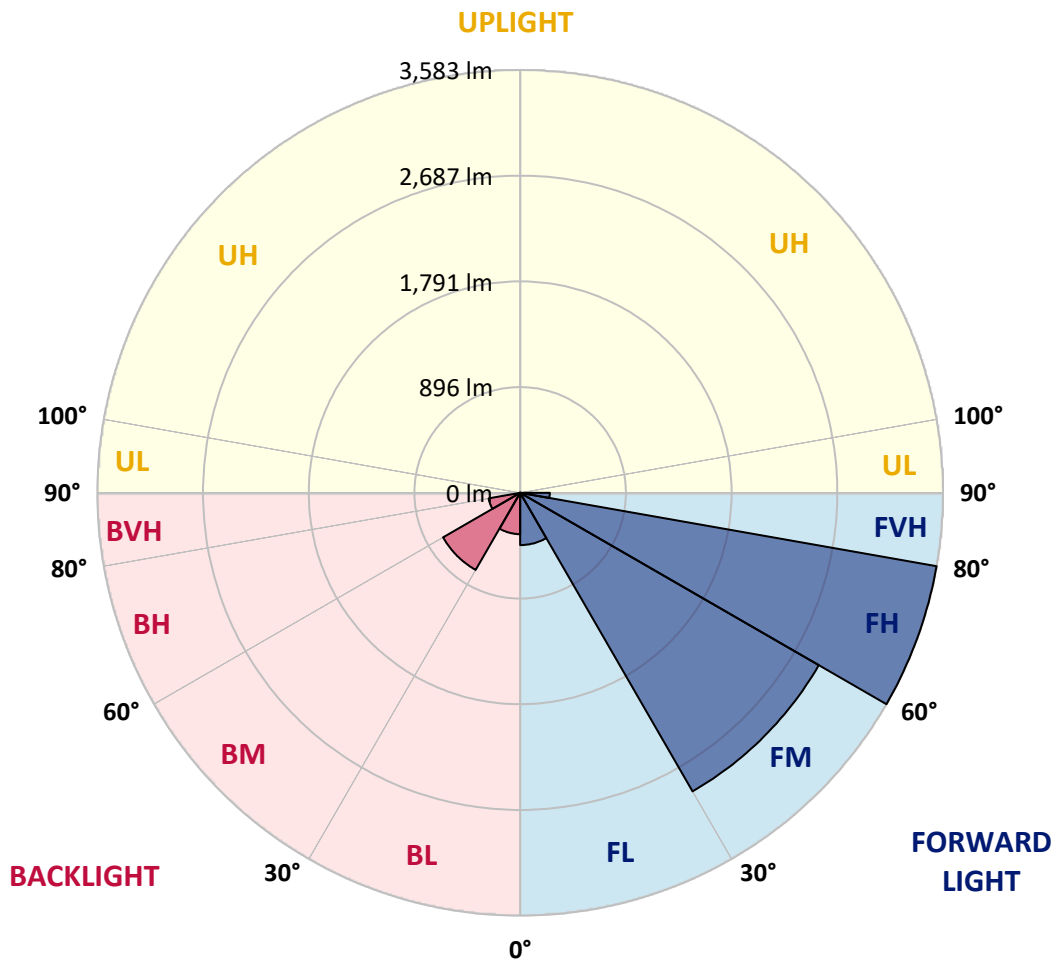
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	443.0	5.2			
FM (30°-60°)	2921.2	34.0			
FH (60°-80°)	3583.0	41.8			G2/5000
FVH (80°-90°)	250.9	2.9			G3/500
BL (0°-30°)	350.3	4.1	B1/500		
BM (30°-60°)	755.1	8.8	B1/1000		
BH (60°-80°)	271.4	3.2	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	952.6	961.8	960.8	959.8	959.8	958.7	952.6	946.4	949.5	948.5	947.4
5°	956.7	965.9	964.9	963.9	963.9	964.9	955.7	948.5	950.5	952.6	951.5
7.5°	958.7	966.9	964.9	963.9	962.8	965.9	958.7	959.8	961.8	961.8	961.8
10°	961.8	968.0	968.0	969.0	970.0	973.1	970.0	973.1	981.3	979.3	984.4
12.5°	953.6	960.8	963.9	969.0	974.1	976.2	979.3	987.5	997.7	1002.9	1008.0
15°	950.5	957.7	962.8	969.0	977.2	979.3	987.5	1001.8	1014.2	1024.4	1035.7
17.5°	960.8	969.0	976.2	980.3	984.4	987.5	995.7	1014.2	1035.7	1054.2	1070.6
20°	980.3	988.5	996.7	1000.8	1003.9	1006.0	1012.1	1029.6	1057.3	1086.0	1109.6
22.5°	1002.9	1011.1	1020.3	1023.4	1030.6	1030.6	1031.6	1049.1	1082.9	1121.9	1150.7
25°	1027.5	1032.6	1040.9	1046.0	1056.3	1058.3	1061.4	1076.8	1118.9	1163.0	1208.2
27.5°	1056.3	1066.5	1074.7	1080.9	1101.4	1102.4	1100.4	1119.9	1161.0	1215.4	1279.0
30°	1108.6	1119.9	1128.1	1138.4	1165.1	1164.0	1177.4	1197.9	1221.5	1281.1	1366.2
32.5°	1191.7	1192.8	1196.9	1210.2	1248.2	1252.3	1278.0	1314.9	1362.1	1400.1	1490.5
35°	1343.7	1338.5	1326.2	1324.2	1349.8	1351.9	1402.2	1480.2	1582.8	1709.1	1848.7
37.5°	1521.2	1534.6	1520.2	1476.1	1480.2	1481.2	1540.8	1640.3	1831.2	2147.4	2279.8
40°	1833.3	1840.5	1751.2	1681.4	1656.7	1645.5	1676.2	1827.1	2071.4	2483.1	2576.5
42.5°	2108.4	2108.4	2025.3	1917.5	1854.9	1863.1	1853.8	2003.7	2317.8	2774.6	2808.5
45°	2383.5	2374.3	2298.3	2208.0	2098.1	2090.9	2067.3	2182.3	2544.7	2984.0	2985.0
47.5°	2640.1	2661.7	2547.7	2448.2	2336.3	2331.1	2289.1	2378.4	2762.3	3167.7	3140.0
50°	2910.1	2939.8	2797.2	2685.3	2564.2	2571.3	2536.4	2599.1	2978.9	3339.1	3288.9
52.5°	3294.0	3238.6	3068.2	2913.2	2787.9	2808.5	2772.5	2809.5	3203.7	3475.7	3371.0
55°	3705.6	3607.1	3465.4	3205.7	3024.0	3022.0	2995.3	3039.4	3430.5	3631.7	3464.4
57.5°	3926.3	3956.1	3923.2	3712.8	3419.2	3414.1	3254.0	3259.1	3638.9	3765.1	3594.7
60°	4177.8	4214.7	4286.6	4155.2	4008.4	4012.5	3613.2	3494.1	3858.6	3871.9	3605.0
62.5°	4311.2	4315.3	4480.6	4526.8	4645.9	4672.6	4369.7	3781.6	4004.3	3954.0	3622.5
65°	4075.1	4082.3	4400.5	4633.5	5030.8	5066.7	4936.4	4337.9	4113.1	3997.1	3606.0
67.5°	3638.9	3697.4	3929.4	4485.7	5316.2	5321.3	5058.5	4749.5	4151.1	4003.3	3527.0
70°	3049.7	3029.2	3322.7	3991.0	5272.0	5234.0	5005.1	4796.8	4123.4	3919.1	3166.7
72.5°	2261.3	2230.5	2533.4	3208.8	4755.7	4827.6	4766.0	4520.6	4018.7	3605.0	2570.3
75°	1547.9	1583.9	1855.9	2419.4	3949.9	4058.7	4330.7	4307.1	3575.2	2988.1	1759.4
77.5°	1059.3	1074.7	1307.7	1800.5	3130.8	3172.9	3623.5	3479.8	2628.8	1836.4	587.1
80°	689.8	684.7	894.1	1282.1	2295.2	2290.1	2587.8	2201.8	1416.5	626.2	81.1
82.5°	384.9	407.5	535.8	842.7	1551.0	1567.4	1615.7	1204.1	545.1	72.9	51.3
85°	216.6	225.8	307.9	477.3	813.0	854.0	720.6	442.4	97.5	40.0	29.8
87.5°	51.3	49.3	98.5	182.7	135.5	146.8	69.8	20.5	10.3	7.2	7.2
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°	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5	948.5
2.5°	947.4	945.4	943.3	939.2	936.2	926.9	927.9	934.1	927.9	938.2	932.0
5°	949.5	946.4	941.3	929.0	919.7	912.5	910.5	909.5	901.3	910.5	906.4
7.5°	957.7	954.6	943.3	930.0	916.6	895.1	892.0	887.9	872.5	878.7	873.5
10°	977.2	973.1	953.6	935.1	914.6	885.9	869.4	857.1	839.7	841.7	836.6
12.5°	1001.8	997.7	975.2	944.4	915.6	875.6	846.8	823.2	797.6	797.6	792.4
15°	1030.6	1026.5	1000.8	964.9	919.7	867.4	824.3	786.3	745.2	740.1	733.9
17.5°	1069.6	1063.4	1033.7	987.5	931.0	860.2	801.7	745.2	682.6	663.1	652.8
20°	1109.6	1102.4	1076.8	1019.3	946.4	853.0	768.8	691.8	610.8	570.7	563.5
22.5°	1161.0	1158.9	1127.1	1047.0	951.5	837.6	727.8	632.3	523.5	468.1	456.8
25°	1221.5	1218.4	1169.2	1068.6	945.4	806.8	669.3	547.1	425.0	369.5	357.2
27.5°	1293.4	1285.2	1205.1	1073.7	927.9	758.6	594.3	437.3	314.1	266.9	257.6
30°	1369.3	1357.0	1243.1	1074.7	893.0	699.0	495.8	321.3	222.7	188.9	188.9
32.5°	1496.6	1454.5	1280.0	1060.4	842.7	613.8	377.7	216.6	156.0	142.7	142.7
35°	1769.7	1669.1	1338.5	1041.9	777.0	508.1	256.6	146.8	130.4	130.4	129.3
37.5°	2179.2	1992.4	1438.1	1011.1	687.7	377.7	169.4	121.1	124.2	124.2	124.2
40°	2441.0	2244.9	1573.6	962.8	585.1	256.6	121.1	115.0	117.0	119.1	119.1
42.5°	2685.3	2464.6	1709.1	896.1	472.2	164.2	112.9	107.8	108.8	108.8	109.8
45°	2840.3	2627.8	1809.7	825.3	348.0	117.0	110.9	101.6	98.5	98.5	100.6
47.5°	2984.0	2734.6	1853.8	731.9	224.8	109.8	105.7	94.4	90.3	89.3	89.3
50°	3127.7	2844.4	1878.5	621.0	140.6	105.7	97.5	86.2	82.1	81.1	81.1
52.5°	3191.3	2879.3	1823.0	495.8	104.7	101.6	91.4	79.0	72.9	72.9	72.9
55°	3258.1	2944.0	1729.6	355.2	99.6	94.4	84.2	70.8	65.7	67.7	67.7
57.5°	3332.0	2897.8	1630.1	231.0	98.5	85.2	74.9	63.6	59.5	61.6	62.6
60°	3309.4	2909.1	1487.4	155.0	94.4	78.0	67.7	56.5	53.4	53.4	53.4
62.5°	3309.4	2821.8	1253.3	118.0	86.2	71.9	62.6	52.4	47.2	45.2	43.1
65°	3222.1	2615.5	915.6	102.6	77.0	66.7	56.5	46.2	40.0	37.0	35.9
67.5°	2958.3	2273.7	368.5	93.4	70.8	61.6	52.4	42.1	34.9	30.8	29.8
70°	2514.9	1678.3	105.7	83.1	71.9	57.5	49.3	37.0	30.8	25.7	24.6
72.5°	1864.1	886.9	86.2	65.7	63.6	49.3	46.2	34.9	26.7	21.6	20.5
75°	941.3	121.1	73.9	47.2	49.3	51.3	44.1	30.8	24.6	17.5	16.4
77.5°	97.5	71.9	64.7	31.8	34.9	35.9	38.0	28.7	21.6	14.4	13.3
80°	60.6	54.4	63.6	27.7	20.5	24.6	25.7	22.6	17.5	11.3	11.3
82.5°	43.1	46.2	47.2	17.5	15.4	14.4	13.3	13.3	15.4	10.3	10.3
85°	29.8	30.8	19.5	11.3	10.3	9.2	8.2	8.2	7.2	8.2	7.2
87.5°	7.2	6.2	6.2	6.2	5.1	5.1	4.1	4.1	4.1	4.1	5.1
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)