

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: P509352

Luminaire Tested: **VERD-CA2-80-727-U-T4-HSS**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509352
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-CA2-80-727-U-T4-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1100mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8917 lumens
Efficiency: N/A
Efficacy: 108.2 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

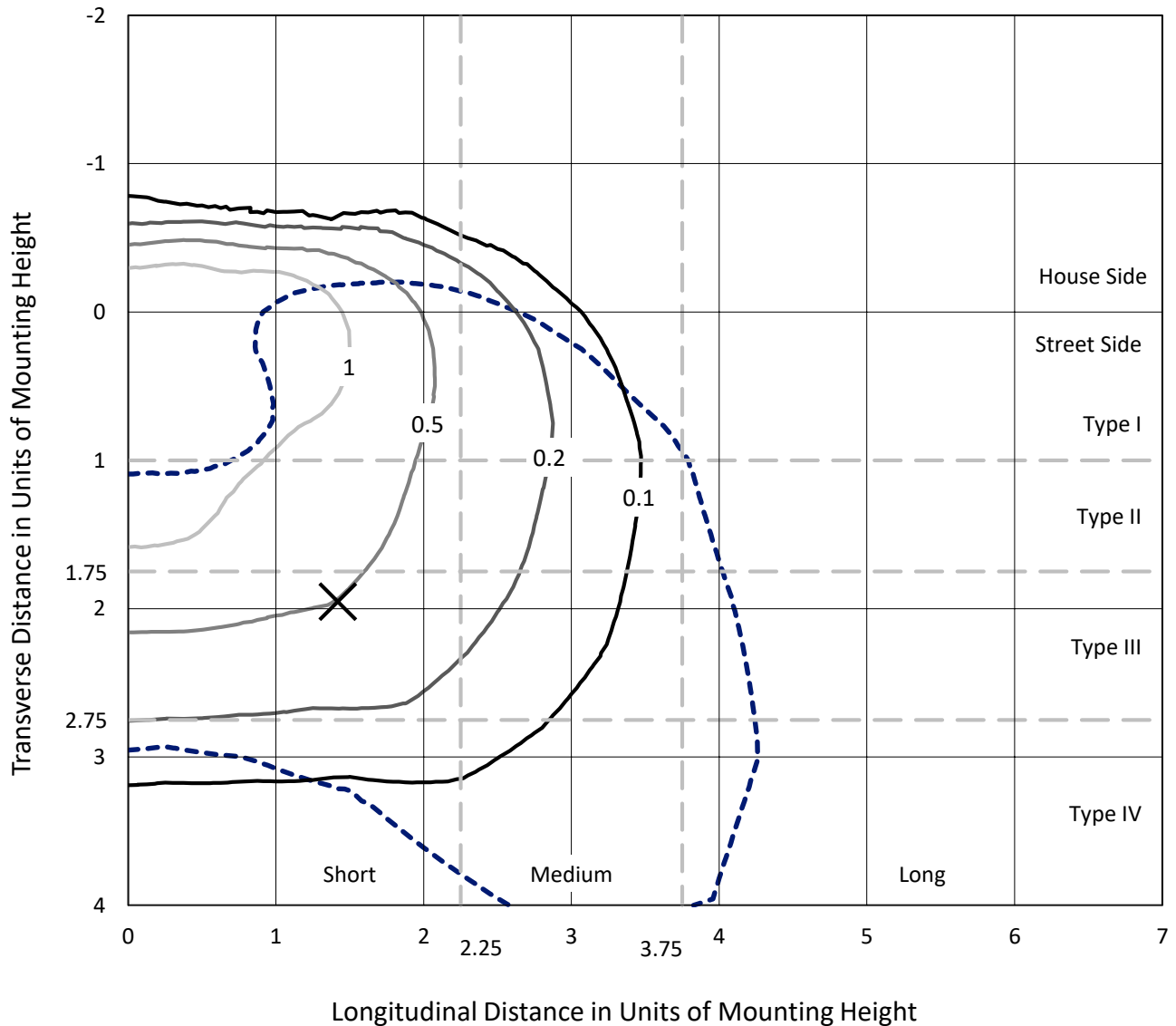
Input Watts (W): 82.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

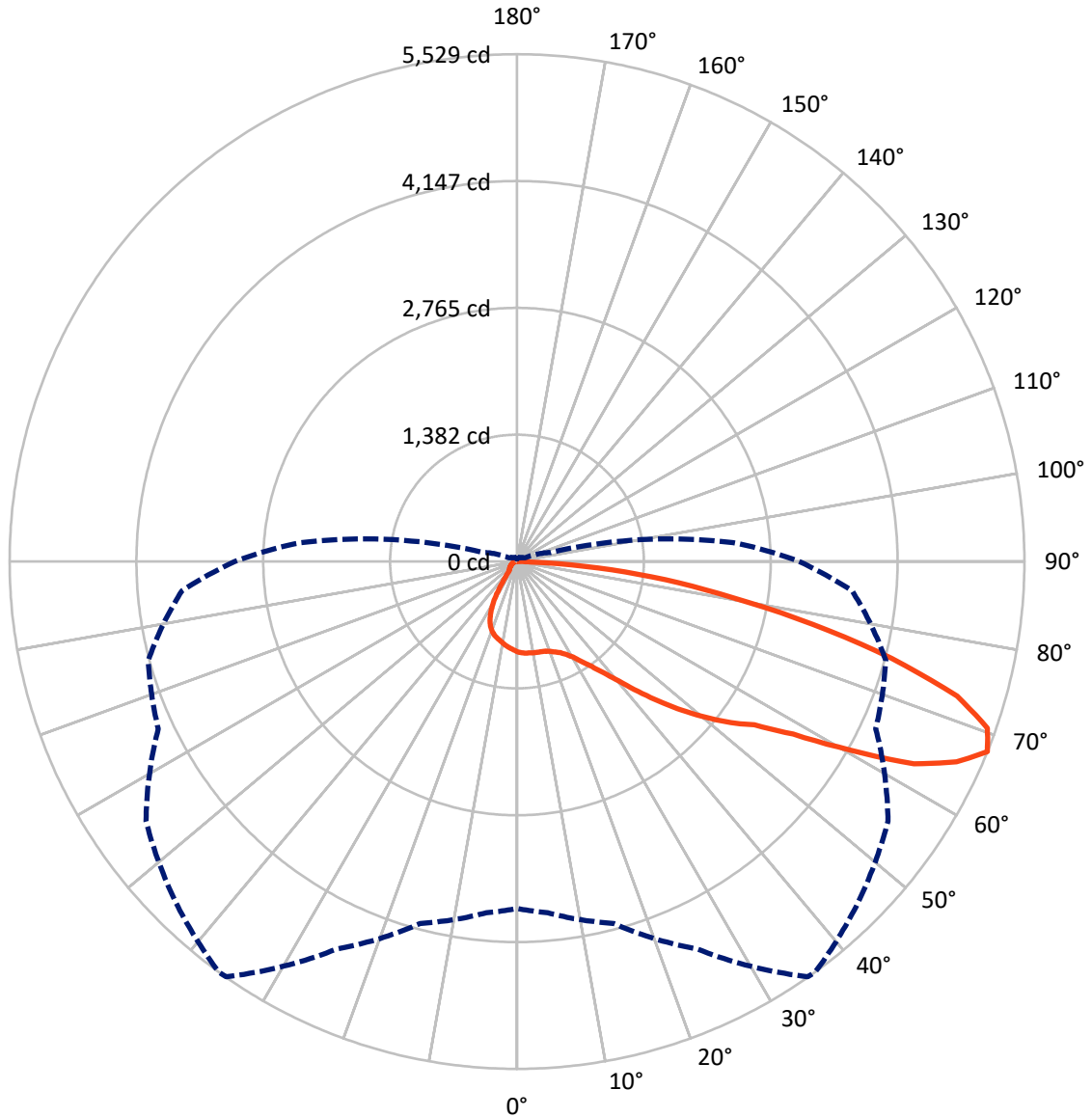
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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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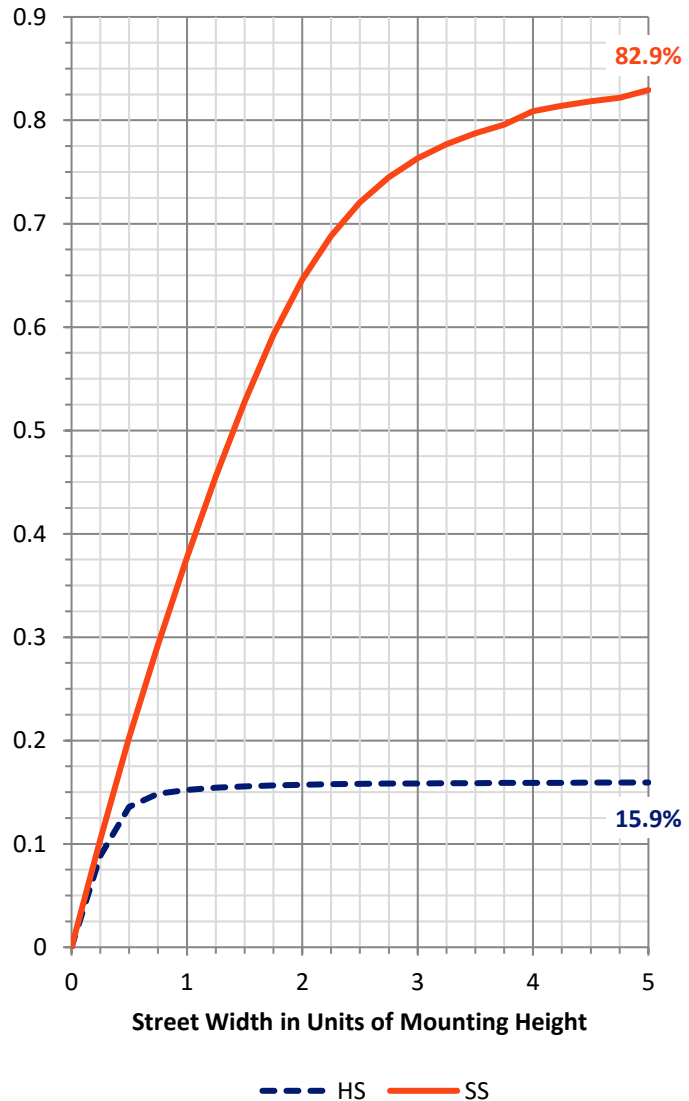
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1438.0	0.0	1438.0
	% Fixture	16.1	0.0	16.1
Street Side	Lumens	7479.0	0.0	7479.0
	% Fixture	83.9	0.0	83.9
Total	Lumens	8917.0	0.0	8917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.0
10°-20°	275.5	3.1
20°-30°	455.7	5.1
30°-40°	722.8	8.1
40°-50°	1247.6	14.0
50°-60°	1849.3	20.7
60°-70°	2390.9	26.8
70°-80°	1613.9	18.1
80°-90°	268.3	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°	8917.0	100.0
0°-180°	8917.0	100.0

Coefficient of Utilization



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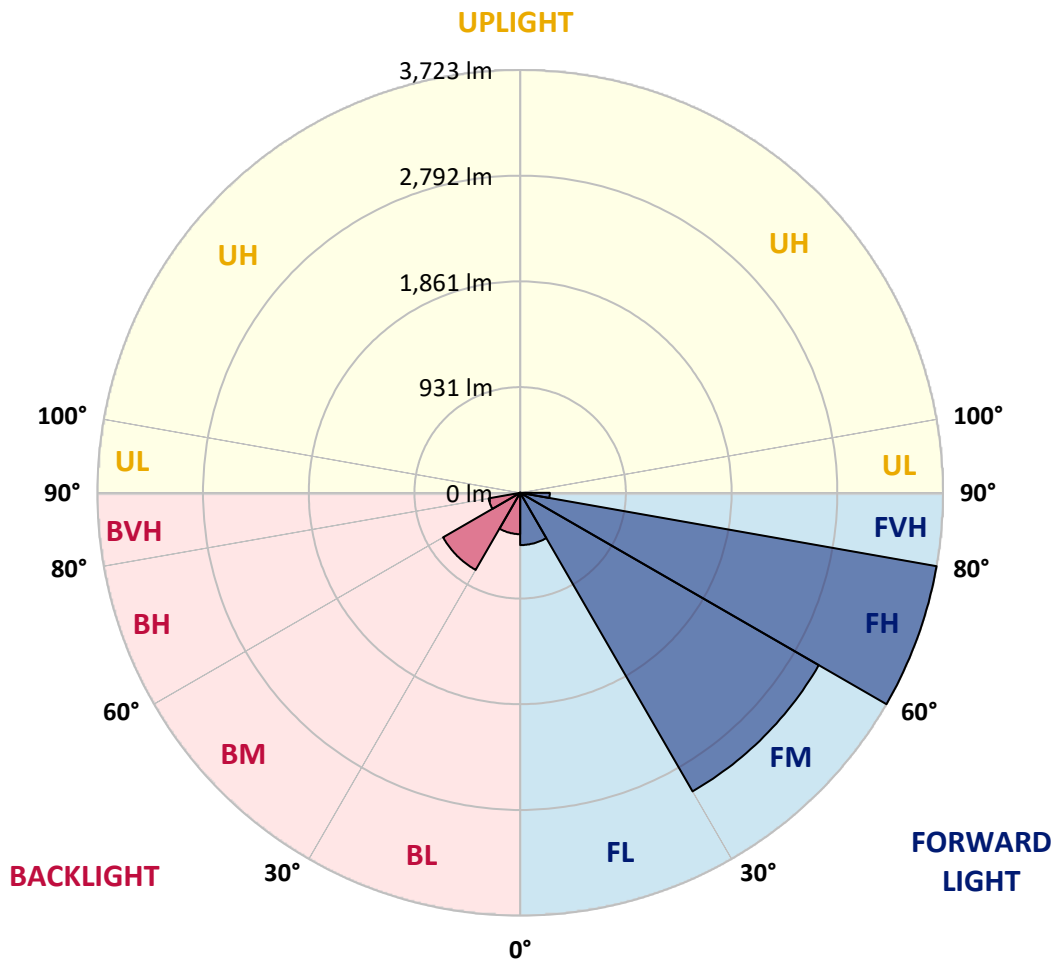
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	460.3	5.2			
FM	(30°-60°)	3035.2	34.0			
FH	(60°-80°)	3722.9	41.7			G2/5000
FVH	(80°-90°)	260.6	2.9			G3/500
BL	(0°-30°)	363.9	4.1	B1/500		
BM	(30°-60°)	784.5	8.8	B1/1000		
BH	(60°-80°)	282.0	3.2	B1/500		G1/500
BVH	(80°-90°)	7.6	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°	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5
2.5°	989.8	999.4	998.3	997.2	997.2	996.2	989.8	983.4	986.6	985.5	984.4
5°	994.0	1003.6	1002.6	1001.5	1001.5	1002.6	993.0	985.5	987.6	989.8	988.7
7.5°	996.2	1004.7	1002.6	1001.5	1000.4	1003.6	996.2	997.2	999.4	999.4	999.4
10°	999.4	1005.8	1005.8	1006.8	1007.9	1011.1	1007.9	1011.1	1019.6	1017.5	1022.8
12.5°	990.8	998.3	1001.5	1006.8	1012.2	1014.3	1017.5	1026.0	1036.7	1042.0	1047.4
15°	987.6	995.1	1000.4	1006.8	1015.4	1017.5	1026.0	1041.0	1053.8	1064.4	1076.2
17.5°	998.3	1006.8	1014.3	1018.6	1022.8	1026.0	1034.6	1053.8	1076.2	1095.3	1112.4
20°	1018.6	1027.1	1035.6	1039.9	1043.1	1045.2	1051.6	1069.8	1098.5	1128.4	1152.9
22.5°	1042.0	1050.6	1060.2	1063.4	1070.8	1070.8	1071.9	1090.0	1125.2	1165.7	1195.6
25°	1067.6	1073.0	1081.5	1086.8	1097.5	1099.6	1102.8	1118.8	1162.5	1208.4	1255.3
27.5°	1097.5	1108.1	1116.7	1123.1	1144.4	1145.5	1143.3	1163.6	1206.3	1262.8	1328.9
30°	1151.9	1163.6	1172.1	1182.8	1210.5	1209.5	1223.3	1244.7	1269.2	1331.1	1419.6
32.5°	1238.3	1239.3	1243.6	1257.5	1296.9	1301.2	1327.9	1366.3	1415.3	1454.8	1548.6
35°	1396.1	1390.8	1378.0	1375.9	1402.5	1404.6	1456.9	1538.0	1644.6	1775.8	1920.9
37.5°	1580.6	1594.5	1579.6	1533.7	1538.0	1539.0	1600.9	1704.4	1902.7	2231.2	2368.8
40°	1904.9	1912.3	1819.5	1747.0	1721.4	1709.7	1741.7	1898.5	2152.3	2580.0	2677.0
42.5°	2190.7	2190.7	2104.3	1992.3	1927.3	1935.8	1926.2	2081.9	2408.3	2882.9	2918.1
45°	2476.5	2466.9	2388.0	2294.2	2180.0	2172.6	2148.0	2267.5	2644.0	3100.5	3101.5
47.5°	2743.2	2765.6	2647.2	2543.7	2427.5	2422.1	2378.4	2471.2	2870.1	3291.4	3262.6
50°	3023.7	3054.6	2906.4	2790.1	2664.2	2671.7	2635.5	2700.5	3095.1	3469.5	3417.2
52.5°	3422.6	3365.0	3187.9	3026.9	2896.8	2918.1	2880.8	2919.2	3328.7	3611.3	3502.6
55°	3850.3	3747.9	3600.7	3330.8	3142.1	3139.9	3112.2	3158.1	3564.4	3773.5	3599.6
57.5°	4079.6	4110.5	4076.4	3857.7	3552.7	3547.4	3381.0	3386.3	3780.9	3912.1	3735.1
60°	4340.9	4379.3	4453.9	4317.4	4164.9	4169.2	3754.3	3630.5	4009.2	4023.0	3745.7
62.5°	4479.5	4483.8	4655.5	4703.5	4827.2	4854.9	4540.3	3929.2	4160.6	4108.4	3763.9
65°	4234.2	4241.7	4572.3	4814.4	5227.2	5264.5	5129.0	4507.2	4273.7	4153.2	3746.8
67.5°	3780.9	3841.7	4082.8	4660.8	5523.7	5529.0	5256.0	4934.9	4313.1	4159.6	3664.7
70°	3168.7	3147.4	3452.4	4146.8	5477.8	5438.3	5200.5	4984.0	4284.3	4072.1	3290.3
72.5°	2349.6	2317.6	2632.3	3334.0	4941.3	5016.0	4952.0	4697.1	4175.6	3745.7	2670.6
75°	1608.4	1645.7	1928.3	2513.9	4104.1	4217.1	4499.8	4475.3	3714.8	3104.7	1828.1
77.5°	1100.7	1116.7	1358.8	1870.7	3253.0	3296.7	3764.9	3615.6	2731.4	1908.1	610.1
80°	716.7	711.4	929.0	1332.1	2384.8	2379.5	2688.8	2287.8	1471.8	650.6	84.3
82.5°	400.0	423.4	556.7	875.6	1611.6	1628.6	1678.8	1251.1	566.3	75.7	53.3
85°	225.0	234.6	320.0	495.9	844.7	887.4	748.7	459.7	101.3	41.6	30.9
87.5°	53.3	51.2	102.4	189.8	140.8	152.5	72.5	21.3	10.7	7.5	7.5
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°	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5	985.5
2.5°	984.4	982.3	980.2	975.9	972.7	963.1	964.2	970.6	964.2	974.8	968.4
5°	986.6	983.4	978.0	965.2	955.6	948.2	946.0	945.0	936.4	946.0	941.8
7.5°	995.1	991.9	980.2	966.3	952.4	930.0	926.8	922.6	906.6	913.0	907.6
10°	1015.4	1011.1	990.8	971.6	950.3	920.4	903.4	890.6	872.4	874.6	869.2
12.5°	1041.0	1036.7	1013.2	981.2	951.4	909.8	879.9	855.4	828.7	828.7	823.4
15°	1070.8	1066.6	1039.9	1002.6	955.6	901.2	856.4	817.0	774.3	769.0	762.6
17.5°	1111.3	1104.9	1074.0	1026.0	967.4	893.8	833.0	774.3	709.3	689.0	678.3
20°	1152.9	1145.5	1118.8	1059.1	983.4	886.3	798.8	718.9	634.6	593.0	585.5
22.5°	1206.3	1204.1	1171.1	1087.9	988.7	870.3	756.2	657.0	543.9	486.3	474.6
25°	1269.2	1266.0	1214.8	1110.3	982.3	838.3	695.4	568.5	441.6	384.0	371.2
27.5°	1343.9	1335.3	1252.1	1115.6	964.2	788.2	617.5	454.4	326.4	277.3	267.7
30°	1422.8	1410.0	1291.6	1116.7	927.9	726.3	515.1	333.8	231.4	196.2	196.2
32.5°	1555.0	1511.3	1330.0	1101.7	875.6	637.8	392.5	225.0	162.1	148.3	148.3
35°	1838.7	1734.2	1390.8	1082.6	807.4	527.9	266.6	152.5	135.5	135.5	134.4
37.5°	2264.3	2070.2	1494.2	1050.6	714.6	392.5	176.0	125.9	129.1	129.1	129.1
40°	2536.3	2332.5	1635.0	1000.4	607.9	266.6	125.9	119.5	121.6	123.7	123.7
42.5°	2790.1	2560.8	1775.8	931.1	490.6	170.6	117.3	112.0	113.1	113.1	114.1
45°	2951.1	2730.4	1880.3	857.5	361.6	121.6	115.2	105.6	102.4	102.4	104.5
47.5°	3100.5	2841.3	1926.2	760.5	233.6	114.1	109.9	98.1	93.9	92.8	92.8
50°	3249.8	2955.4	1951.8	645.3	146.1	109.9	101.3	89.6	85.3	84.3	84.3
52.5°	3315.9	2991.7	1894.2	515.1	108.8	105.6	94.9	82.1	75.7	75.7	75.7
55°	3385.2	3058.9	1797.1	369.0	103.5	98.1	87.5	73.6	68.3	70.4	70.4
57.5°	3462.0	3010.9	1693.7	240.0	102.4	88.5	77.9	66.1	61.9	64.0	65.1
60°	3438.6	3022.6	1545.4	161.0	98.1	81.1	70.4	58.7	55.5	55.5	55.5
62.5°	3438.6	2932.0	1302.3	122.7	89.6	74.7	65.1	54.4	49.1	46.9	44.8
65°	3347.9	2717.6	951.4	106.7	80.0	69.3	58.7	48.0	41.6	38.4	37.3
67.5°	3073.8	2362.4	382.9	97.1	73.6	64.0	54.4	43.7	36.3	32.0	30.9
70°	2613.1	1743.8	109.9	86.4	74.7	59.7	51.2	38.4	32.0	26.7	25.6
72.5°	1936.9	921.5	89.6	68.3	66.1	51.2	48.0	36.3	27.7	22.4	21.3
75°	978.0	125.9	76.8	49.1	51.2	53.3	45.9	32.0	25.6	18.1	17.1
77.5°	101.3	74.7	67.2	33.1	36.3	37.3	39.5	29.9	22.4	14.9	13.9
80°	62.9	56.5	66.1	28.8	21.3	25.6	26.7	23.5	18.1	11.7	11.7
82.5°	44.8	48.0	49.1	18.1	16.0	14.9	13.9	13.9	16.0	10.7	10.7
85°	30.9	32.0	20.3	11.7	10.7	9.6	8.5	8.5	7.5	8.5	7.5
87.5°	7.5	6.4	6.4	6.4	5.3	5.3	4.3	4.3	4.3	4.3	5.3
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)