

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: P507690

Luminaire Tested: **VERD-S-CA1-70-740-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-70-740-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1330mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9176 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

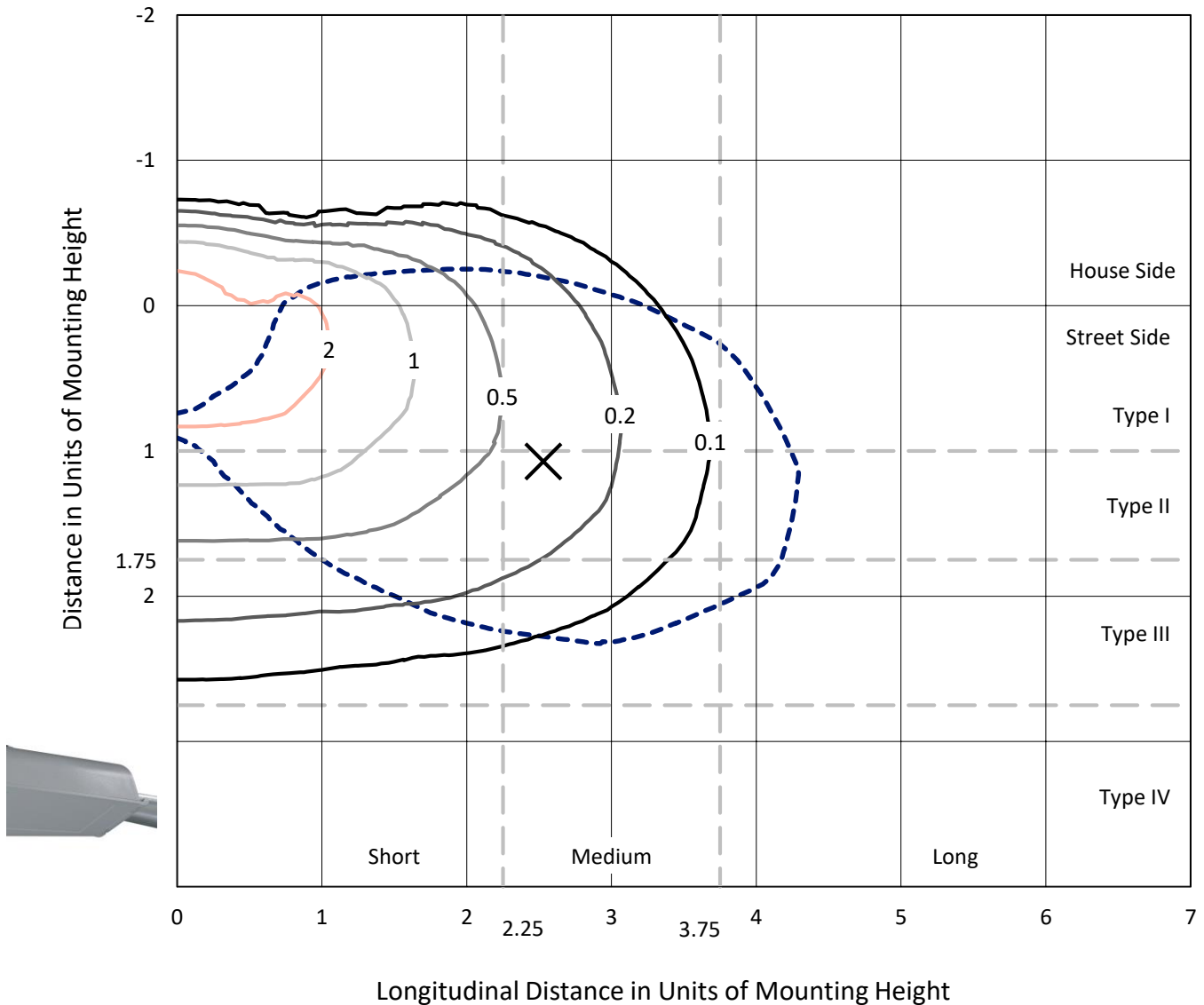
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

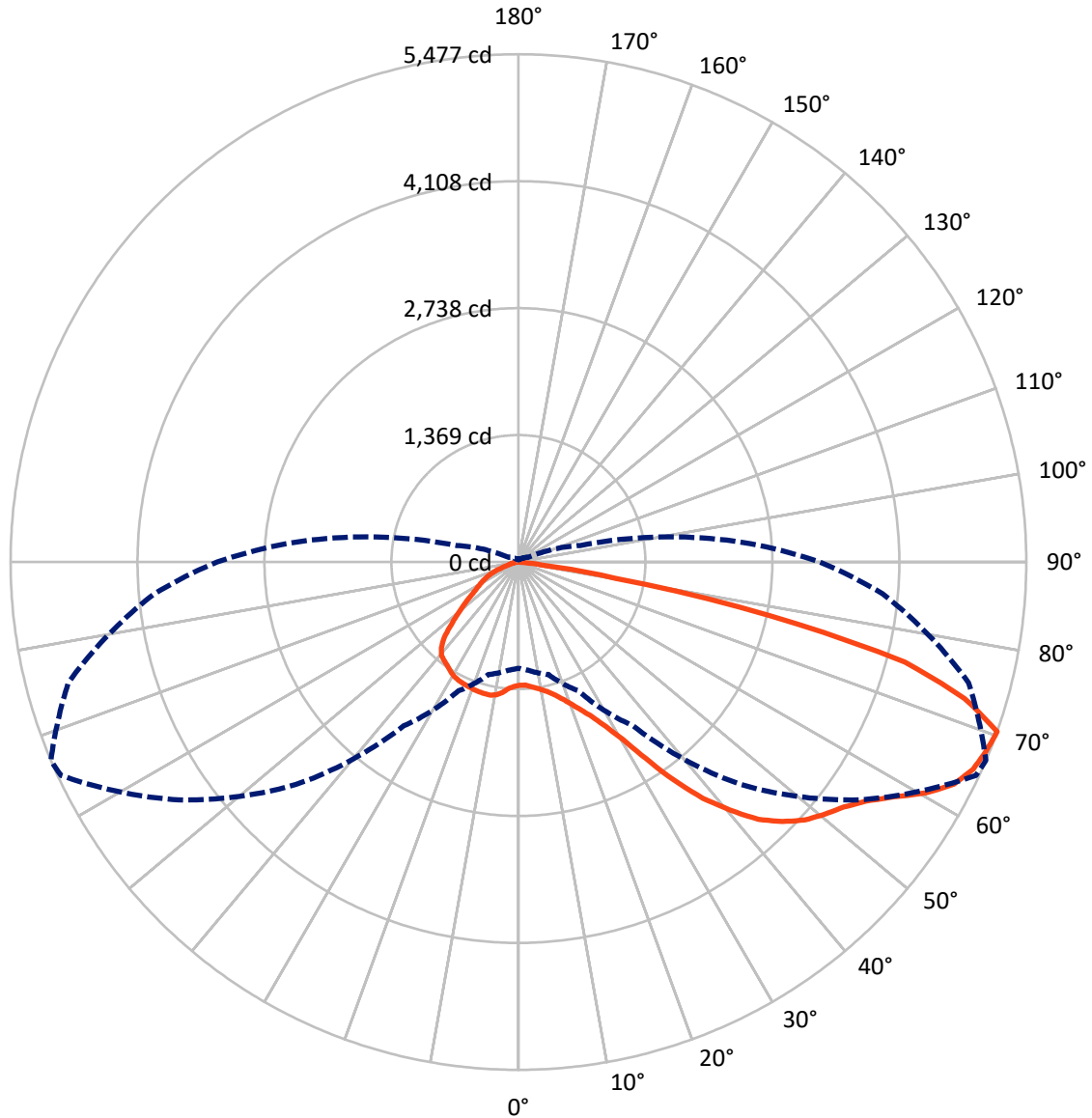
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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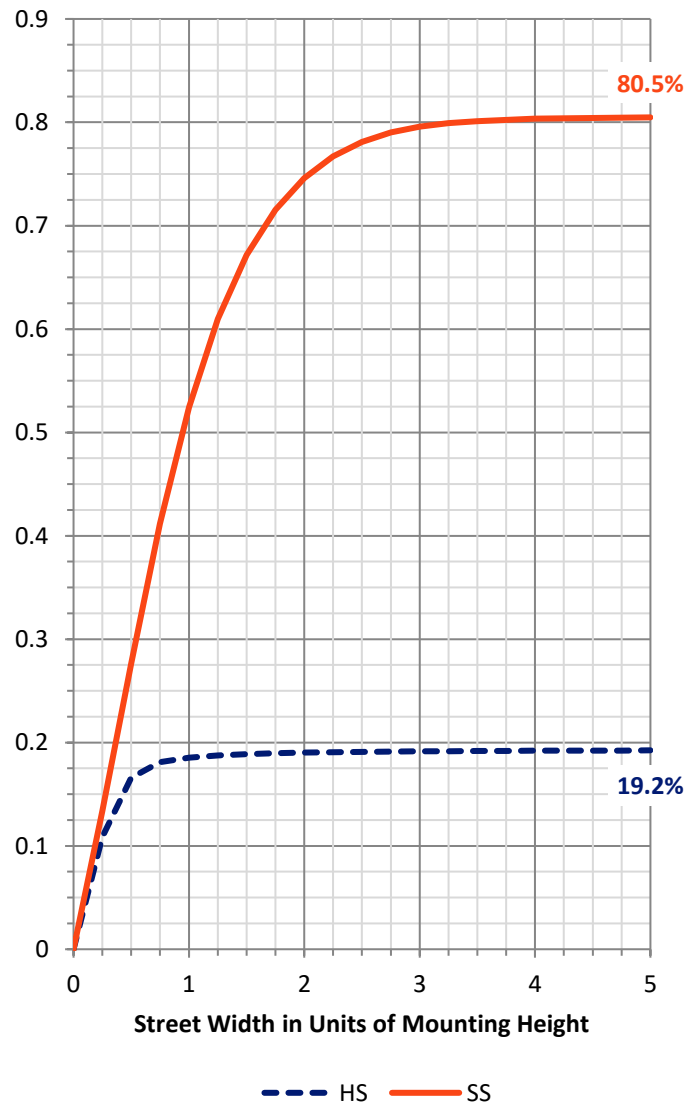
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1788.2	0.0	1788.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	7387.8	0.0	7387.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	9176.0	0.0	9176.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	1.5
10°-20°	423.6	4.6
20°-30°	736.1	8.0
30°-40°	1152.7	12.6
40°-50°	1621.9	17.7
50°-60°	1934.4	21.1
60°-70°	2004.5	21.8
70°-80°	1106.1	12.1
80°-90°	63.0	0.7
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°	9176.0	100.0
0°-180°	9176.0	100.0

Coefficient of Utilization



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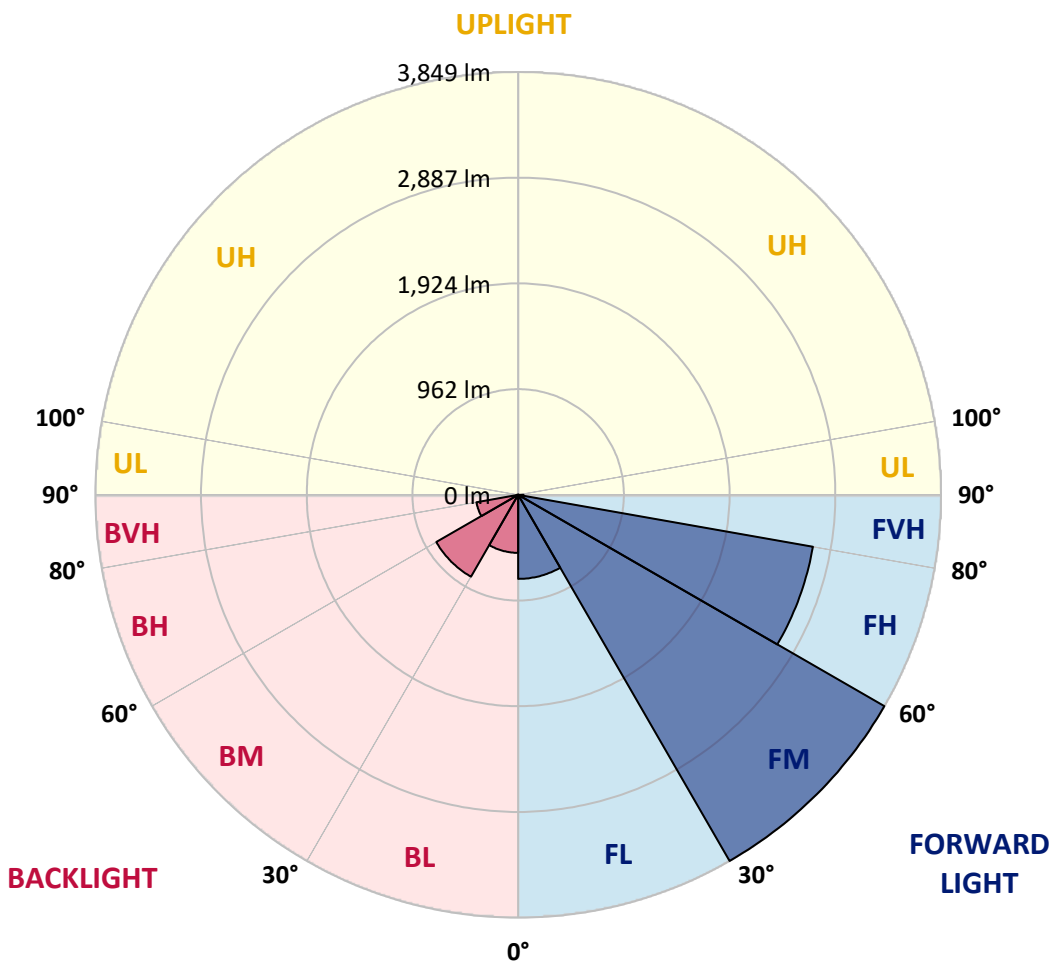
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	765.4	8.3			
FM (30°-60°)	3848.9	41.9			
FH (60°-80°)	2724.5	29.7			G2/5000
FVH (80°-90°)	48.9	0.5			G1/100
BL (0°-30°)	528.0	5.8	B2/1000		
BM (30°-60°)	860.2	9.4	B1/1000		
BH (60°-80°)	386.0	4.2	B1/500		G1/500
BVH (80°-90°)	14.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8
2.5°	1337.2	1337.2	1337.2	1334.4	1334.4	1334.4	1331.6	1328.8	1328.8	1328.8	1331.6
5°	1373.4	1373.4	1370.6	1367.8	1365.1	1356.7	1351.1	1348.3	1348.3	1345.6	1351.1
7.5°	1418.0	1418.0	1418.0	1412.4	1404.1	1392.9	1381.8	1373.4	1370.6	1367.8	1370.6
10°	1484.8	1484.8	1479.3	1470.9	1457.0	1440.3	1420.8	1404.1	1401.3	1395.7	1401.3
12.5°	1571.2	1562.9	1557.3	1543.4	1526.6	1498.8	1468.1	1443.1	1437.5	1431.9	1451.4
15°	1660.4	1657.6	1643.6	1635.3	1607.4	1571.2	1529.4	1496.0	1490.4	1479.3	1496.0
17.5°	1766.2	1769.0	1763.4	1749.5	1710.5	1657.6	1607.4	1560.1	1554.5	1546.1	1554.5
20°	1911.1	1905.5	1894.4	1874.9	1830.3	1760.6	1696.6	1643.6	1635.3	1629.7	1621.4
22.5°	2055.9	2058.7	2036.4	2016.9	1961.2	1894.4	1808.0	1743.9	1732.8	1730.0	1691.0
25°	2195.2	2200.8	2192.5	2167.4	2120.0	2033.7	1938.9	1860.9	1847.0	1844.2	1777.4
27.5°	2340.1	2342.9	2351.2	2340.1	2290.0	2200.8	2094.9	2005.8	2005.8	1983.5	1883.2
30°	2479.4	2485.0	2490.5	2490.5	2465.5	2387.5	2295.5	2217.5	2217.5	2200.8	2028.1
32.5°	2588.0	2590.8	2624.3	2652.1	2652.1	2596.4	2535.1	2526.8	2524.0	2554.6	2359.6
35°	2685.5	2693.9	2741.3	2816.5	2847.1	2824.8	2827.6	2858.3	2888.9	2964.1	2816.5
37.5°	2758.0	2769.1	2813.7	2900.1	2986.4	3044.9	3100.6	3184.2	3231.6	3345.8	3142.4
40°	2777.5	2791.4	2886.1	3008.7	3148.0	3281.7	3382.0	3485.1	3515.7	3596.5	3340.2
42.5°	2716.2	2730.1	2849.9	3097.8	3292.9	3501.8	3610.4	3741.4	3794.3	3763.7	3504.6
45°	2674.4	2682.8	2808.1	3089.5	3418.2	3716.3	3822.2	3958.7	3992.1	3919.7	3641.1
47.5°	2621.5	2629.8	2760.8	3078.3	3521.3	3900.2	3972.6	4123.0	4156.5	4045.0	3758.1
50°	2543.5	2549.0	2699.5	3056.1	3588.2	4031.1	4111.9	4262.3	4276.3	4162.0	3869.5
52.5°	2448.7	2465.5	2610.3	3003.1	3635.5	4111.9	4209.4	4371.0	4390.5	4312.5	3992.1
55°	2320.6	2340.1	2507.2	2925.1	3618.8	4139.7	4254.0	4515.8	4549.3	4485.2	4095.2
57.5°	2189.7	2217.5	2381.9	2816.5	3551.9	4181.5	4401.6	4730.3	4774.9	4655.1	4178.7
60°	2055.9	2067.1	2237.0	2668.8	3440.5	4223.3	4568.8	5011.7	5053.5	4822.3	4245.6
62.5°	1902.7	1916.7	2067.1	2465.5	3248.3	4184.3	4694.1	5248.5	5273.6	4961.6	4273.5
65°	1724.4	1724.4	1852.6	2217.5	2989.2	4045.0	4710.8	5371.1	5387.8	5050.7	4240.0
67.5°	1476.5	1487.6	1590.7	1911.1	2641.0	3772.0	4616.1	5398.9	5440.7	5106.4	4148.1
70°	1145.0	1170.0	1256.4	1532.2	2156.2	3393.1	4474.0	5443.5	5476.9	5025.6	3942.0
72.5°	782.8	807.9	885.9	1050.3	1554.5	2721.8	4047.8	5022.9	5031.2	4632.8	3540.8
75°	206.2	228.4	289.7	420.7	651.9	1830.3	3237.1	4254.0	4304.1	4006.0	2922.3
77.5°	61.3	61.3	75.2	97.5	133.7	373.3	1646.4	2710.6	2760.8	2641.0	1821.9
80°	47.4	47.4	55.7	66.9	86.4	192.2	571.1	1000.1	1061.4	1133.8	752.2
82.5°	30.6	33.4	36.2	39.0	39.0	78.0	153.2	256.3	253.5	275.8	242.4
85°	19.5	19.5	16.7	16.7	13.9	19.5	13.9	16.7	19.5	19.5	22.3
87.5°	2.8	0.0	0.0	0.0	0.0	2.8	2.8	5.6	5.6	5.6	8.4
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°	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8	1328.8
2.5°	1334.4	1337.2	1340.0	1342.8	1348.3	1348.3	1351.1	1351.1	1351.1	1351.1	1351.1
5°	1351.1	1353.9	1362.3	1370.6	1390.1	1401.3	1412.4	1420.8	1420.8	1426.3	1426.3
7.5°	1376.2	1384.6	1409.6	1420.8	1437.5	1454.2	1462.6	1465.3	1470.9	1470.9	1470.9
10°	1418.0	1426.3	1445.8	1454.2	1462.6	1462.6	1459.8	1457.0	1448.6	1445.8	1448.6
12.5°	1457.0	1468.1	1468.1	1465.3	1457.0	1445.8	1431.9	1418.0	1404.1	1392.9	1392.9
15°	1504.3	1498.8	1482.1	1459.8	1437.5	1409.6	1381.8	1356.7	1334.4	1326.1	1326.1
17.5°	1546.1	1532.2	1496.0	1454.2	1406.8	1362.3	1317.7	1275.9	1236.9	1223.0	1214.6
20°	1596.3	1571.2	1507.1	1443.1	1376.2	1306.6	1231.3	1156.1	1089.3	1061.4	1058.6
22.5°	1654.8	1613.0	1523.9	1426.3	1337.2	1231.3	1106.0	1000.1	933.3	899.8	894.3
25°	1724.4	1663.1	1540.6	1412.4	1289.8	1133.8	966.7	846.9	763.3	727.1	713.2
27.5°	1810.8	1730.0	1562.9	1395.7	1217.4	1014.0	824.6	685.3	593.4	548.8	543.2
30°	1922.2	1810.8	1585.1	1370.6	1128.3	874.8	671.4	515.4	423.4	378.9	367.7
32.5°	2178.5	1975.2	1613.0	1328.8	1016.8	741.0	507.0	345.4	253.5	211.7	208.9
35°	2613.1	2345.7	1677.1	1273.1	905.4	582.2	325.9	183.9	136.5	119.8	119.8
37.5°	2939.1	2654.9	1849.8	1200.7	760.5	390.0	167.1	108.6	86.4	83.6	83.6
40°	3134.1	2838.8	2039.2	1119.9	587.8	208.9	103.1	83.6	78.0	75.2	75.2
42.5°	3295.6	2992.0	2128.4	1019.6	373.3	117.0	86.4	78.0	72.4	69.6	69.6
45°	3429.4	3109.0	2139.5	891.5	208.9	97.5	80.8	69.6	66.9	64.1	64.1
47.5°	3535.2	3209.3	2111.7	710.4	130.9	91.9	75.2	64.1	58.5	58.5	58.5
50°	3635.5	3295.6	2033.7	560.0	122.6	86.4	69.6	58.5	55.7	55.7	55.7
52.5°	3727.4	3356.9	1902.7	451.3	114.2	80.8	66.9	55.7	50.1	52.9	52.9
55°	3802.7	3382.0	1769.0	348.2	108.6	78.0	64.1	52.9	47.4	47.4	47.4
57.5°	3844.4	3329.1	1657.6	264.7	105.9	75.2	61.3	50.1	41.8	39.0	39.0
60°	3847.2	3259.4	1554.5	222.9	100.3	69.6	58.5	44.6	36.2	33.4	33.4
62.5°	3797.1	3175.8	1398.5	192.2	94.7	66.9	52.9	41.8	33.4	30.6	30.6
65°	3699.6	3028.2	1225.8	164.4	91.9	66.9	47.4	39.0	33.4	27.9	27.9
67.5°	3543.6	2783.0	994.5	144.9	86.4	61.3	47.4	36.2	30.6	27.9	27.9
70°	3248.3	2432.0	688.1	125.4	80.8	55.7	44.6	36.2	30.6	25.1	25.1
72.5°	2799.8	1975.2	339.9	103.1	69.6	55.7	44.6	33.4	27.9	25.1	25.1
75°	2164.6	1415.2	206.2	83.6	55.7	50.1	41.8	33.4	27.9	22.3	22.3
77.5°	1273.1	629.6	147.6	64.1	41.8	39.0	36.2	30.6	25.1	22.3	22.3
80°	465.2	267.4	108.6	50.1	33.4	33.4	27.9	25.1	22.3	19.5	19.5
82.5°	181.1	142.1	72.4	36.2	27.9	25.1	22.3	19.5	16.7	16.7	16.7
85°	25.1	25.1	25.1	19.5	16.7	16.7	13.9	13.9	11.1	11.1	11.1
87.5°	8.4	8.4	8.4	11.1	8.4	8.4	5.6	5.6	5.6	8.4	8.4
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)