

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: P507642

Luminaire Tested: **VERD-S-CA1-60-740-U-T3-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507642
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-CA1-60-740-U-T3-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1150mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8105 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

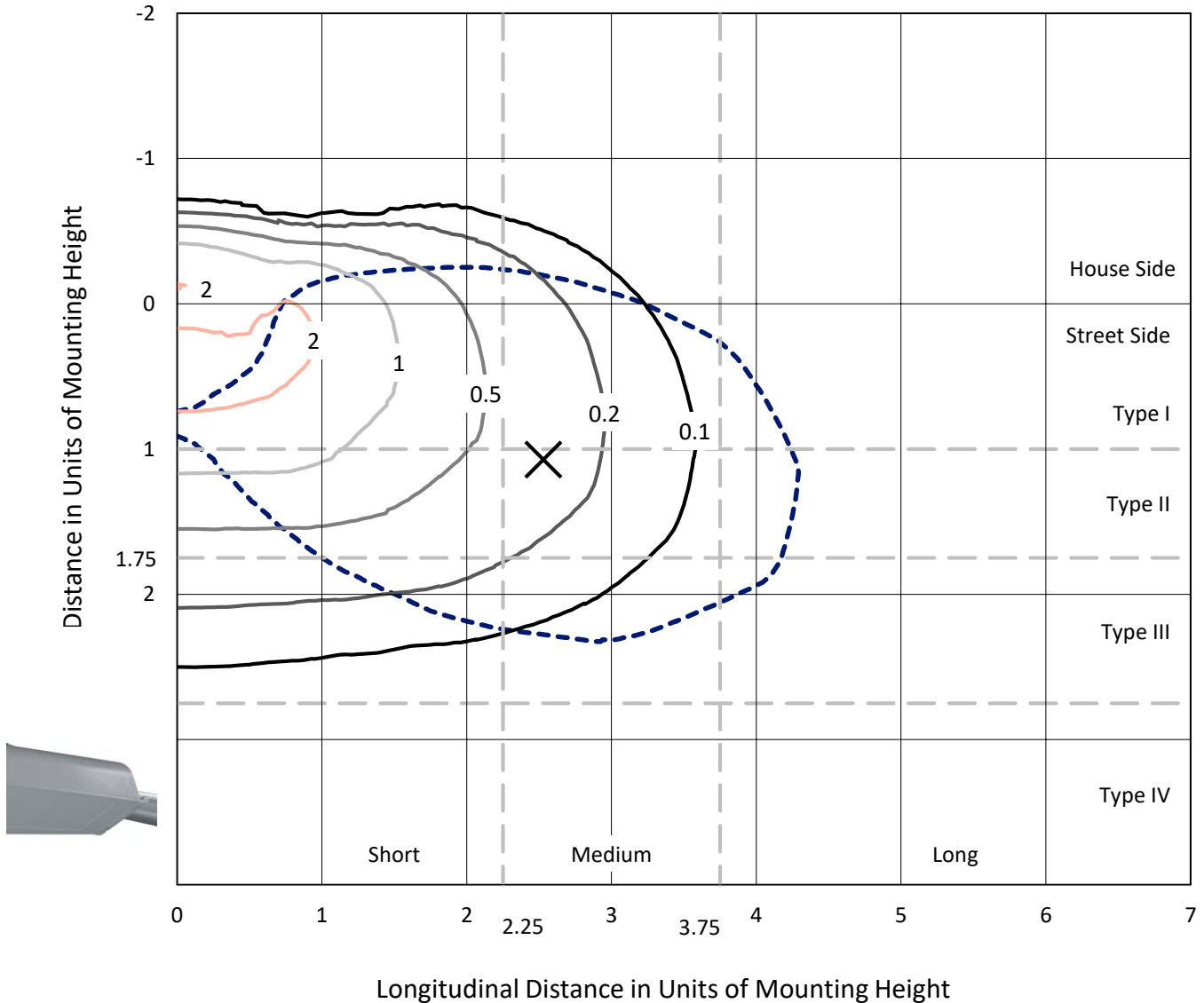
Input Watts (W): 63.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

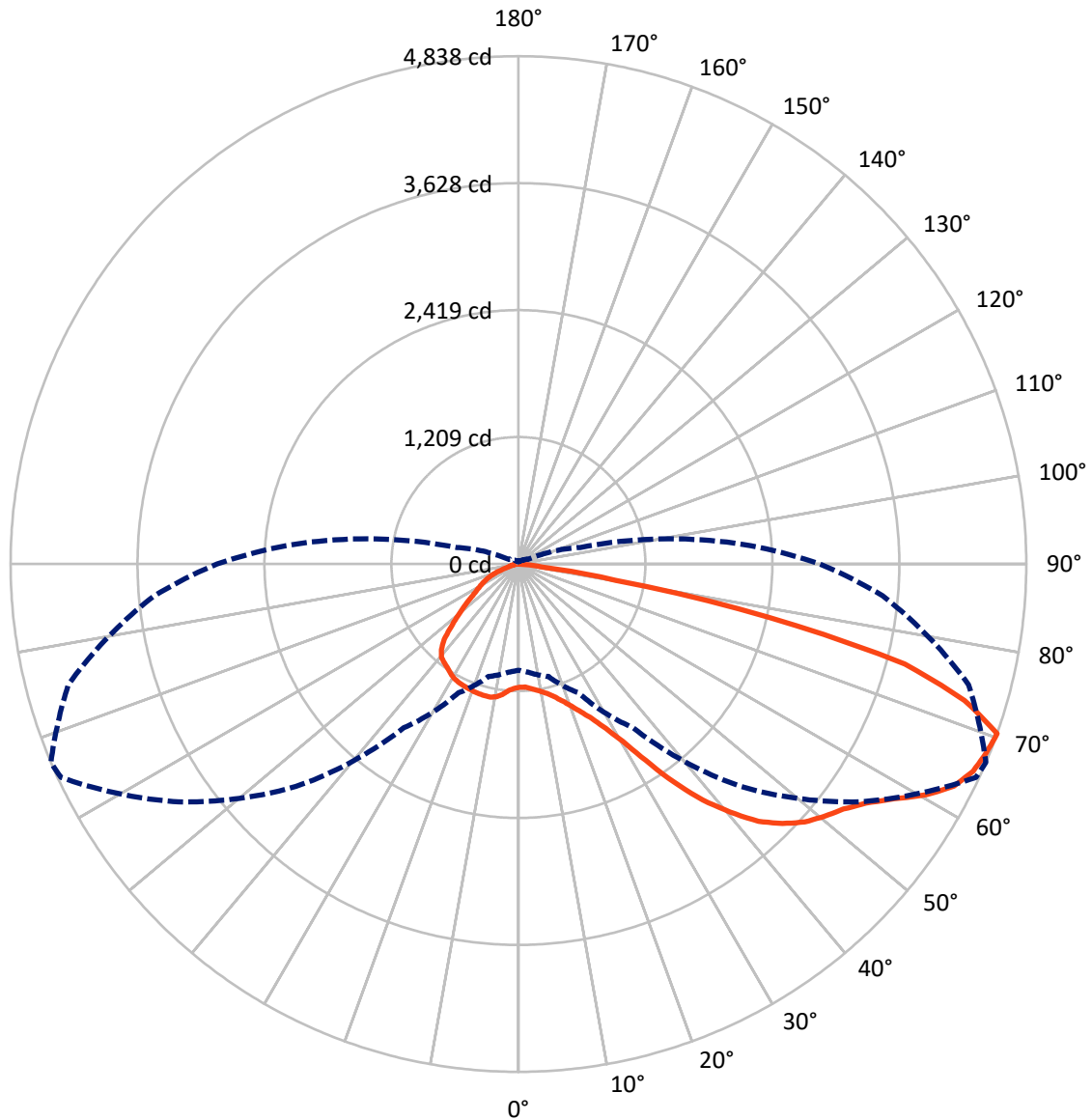
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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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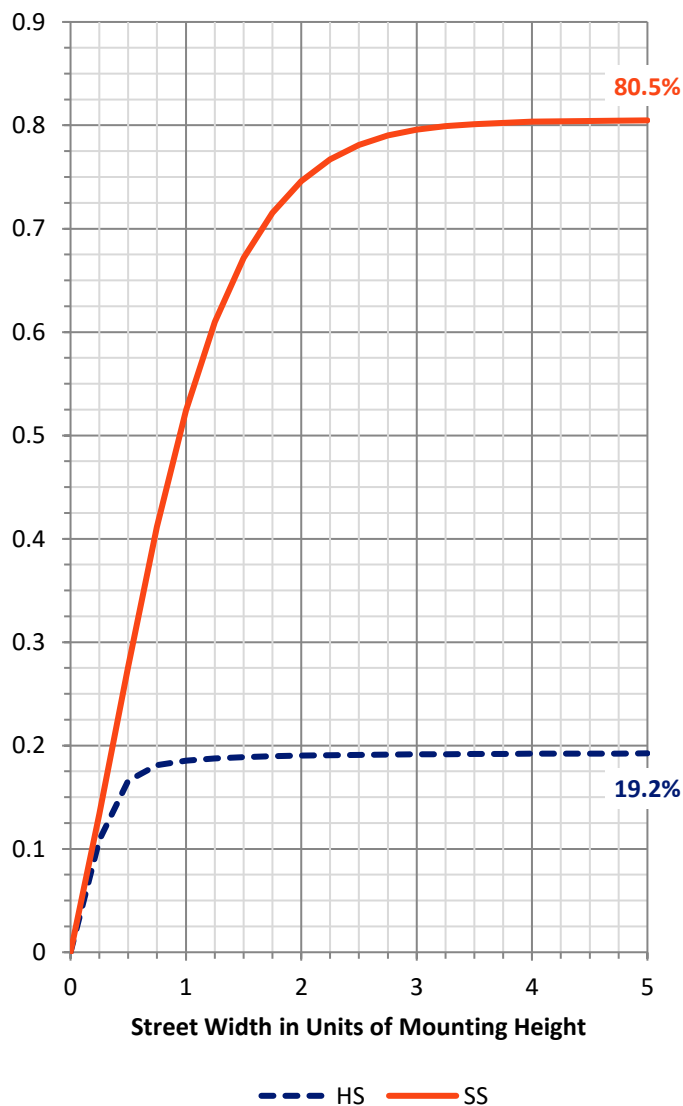
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1579.5	0.0	1579.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	6525.5	0.0	6525.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	8105.0	0.0	8105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	1.5
10°-20°	374.1	4.6
20°-30°	650.2	8.0
30°-40°	1018.2	12.6
40°-50°	1432.6	17.7
50°-60°	1708.6	21.1
60°-70°	1770.5	21.8
70°-80°	977.0	12.1
80°-90°	55.6	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°	8105.0	100.0
0°-180°	8105.0	100.0

Coefficient of Utilization



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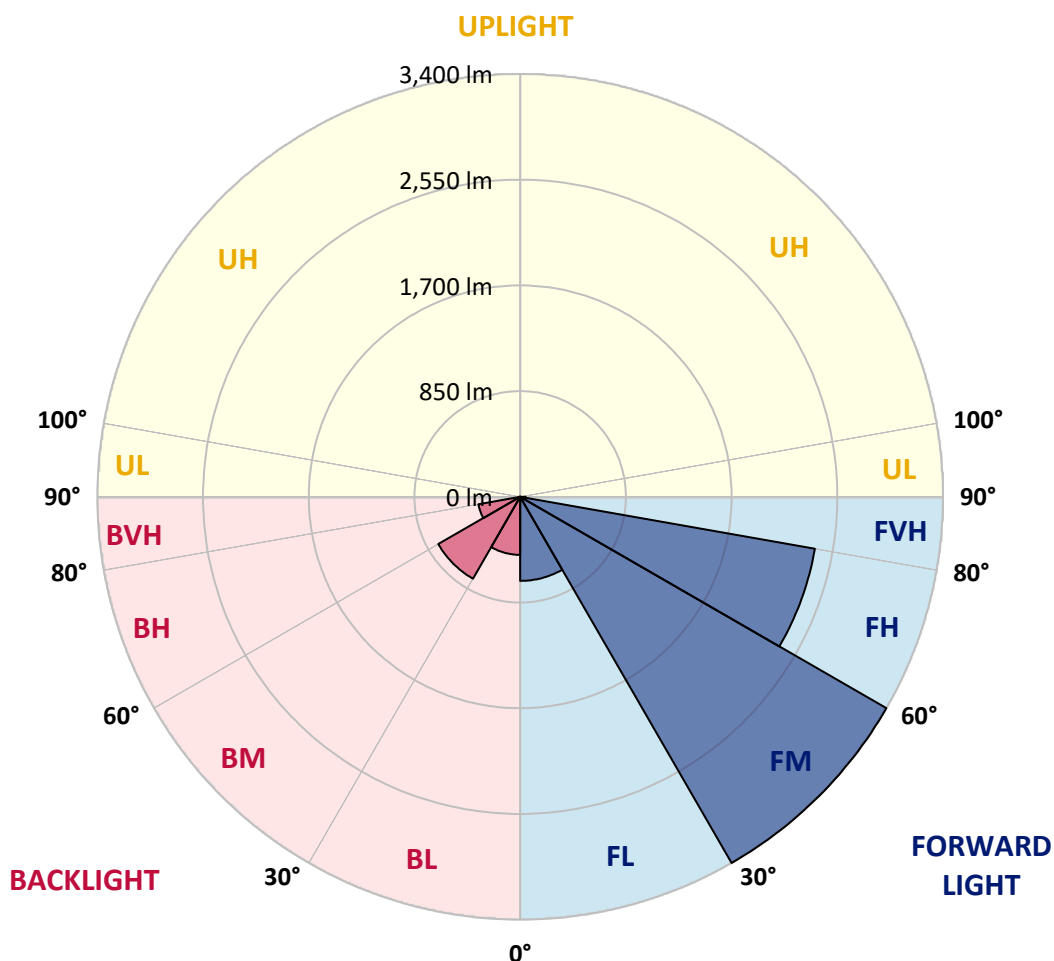
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.1	8.3			
FM (30°-60°)	3399.6	41.9			
FH (60°-80°)	2406.5	29.7			G2/5000
FVH (80°-90°)	43.2	0.5			G1/100
BL (0°-30°)	466.4	5.8	B1/500		
BM (30°-60°)	759.8	9.4	B1/1000		
BH (60°-80°)	341.0	4.2	B1/500		G1/500
BVH (80°-90°)	12.4	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7
2.5°	1181.1	1181.1	1181.1	1178.7	1178.7	1178.7	1176.2	1173.7	1173.7	1173.7	1176.2
5°	1213.1	1213.1	1210.7	1208.2	1205.7	1198.3	1193.4	1191.0	1191.0	1188.5	1193.4
7.5°	1252.5	1252.5	1252.5	1247.6	1240.2	1230.3	1220.5	1213.1	1210.7	1208.2	1210.7
10°	1311.5	1311.5	1306.6	1299.2	1286.9	1272.2	1254.9	1240.2	1237.7	1232.8	1237.7
12.5°	1387.8	1380.4	1375.5	1363.2	1348.5	1323.8	1296.8	1274.6	1269.7	1264.8	1282.0
15°	1466.6	1464.1	1451.8	1444.4	1419.8	1387.8	1350.9	1321.4	1316.5	1306.6	1321.4
17.5°	1560.1	1562.5	1557.6	1545.3	1510.9	1464.1	1419.8	1378.0	1373.1	1365.7	1373.1
20°	1688.0	1683.1	1673.3	1656.0	1616.7	1555.1	1498.6	1451.8	1444.4	1439.5	1432.1
22.5°	1816.0	1818.4	1798.8	1781.5	1732.3	1673.3	1597.0	1540.4	1530.5	1528.1	1493.6
25°	1939.0	1943.9	1936.6	1914.4	1872.6	1796.3	1712.6	1643.7	1631.4	1629.0	1569.9
27.5°	2067.0	2069.4	2076.8	2067.0	2022.7	1943.9	1850.4	1771.7	1771.7	1752.0	1663.4
30°	2190.0	2194.9	2199.8	2199.8	2177.7	2108.8	2027.6	1958.7	1958.7	1943.9	1791.4
32.5°	2286.0	2288.4	2318.0	2342.6	2342.6	2293.4	2239.2	2231.8	2229.4	2256.4	2084.2
35°	2372.1	2379.5	2421.3	2487.7	2514.8	2495.1	2497.6	2524.7	2551.7	2618.2	2487.7
37.5°	2436.1	2445.9	2485.3	2561.6	2637.8	2689.5	2738.7	2812.6	2854.4	2955.3	2775.6
40°	2453.3	2465.6	2549.3	2657.5	2780.6	2898.7	2987.3	3078.3	3105.4	3176.7	2950.4
42.5°	2399.2	2411.5	2517.3	2736.3	2908.5	3093.1	3189.0	3304.7	3351.4	3324.4	3095.5
45°	2362.3	2369.6	2480.4	2728.9	3019.3	3282.5	3376.0	3496.6	3526.2	3462.2	3216.1
47.5°	2315.5	2322.9	2438.5	2719.0	3110.3	3444.9	3508.9	3641.8	3671.3	3572.9	3319.5
50°	2246.6	2251.5	2384.4	2699.4	3169.4	3560.6	3632.0	3764.8	3777.1	3676.3	3417.9
52.5°	2162.9	2177.7	2305.7	2652.6	3211.2	3632.0	3718.1	3860.8	3878.0	3809.1	3526.2
55°	2049.7	2067.0	2214.6	2583.7	3196.4	3656.6	3757.5	3988.8	4018.3	3961.7	3617.2
57.5°	1934.1	1958.7	2103.9	2487.7	3137.4	3693.5	3887.9	4178.2	4217.6	4111.8	3691.0
60°	1816.0	1825.8	1975.9	2357.3	3038.9	3730.4	4035.5	4426.8	4463.7	4259.4	3750.1
62.5°	1680.6	1692.9	1825.8	2177.7	2869.2	3695.9	4146.2	4635.9	4658.1	4382.5	3774.7
65°	1523.2	1523.2	1636.4	1958.7	2640.3	3572.9	4161.0	4744.2	4759.0	4461.2	3745.2
67.5°	1304.2	1314.0	1405.0	1688.0	2332.7	3331.8	4077.3	4768.8	4805.7	4510.4	3663.9
70°	1011.3	1033.5	1109.8	1353.4	1904.6	2997.1	3951.8	4808.2	4837.7	4439.1	3481.9
72.5°	691.5	713.6	782.5	927.7	1373.1	2404.1	3575.4	4436.6	4444.0	4092.1	3127.5
75°	182.1	201.8	255.9	371.6	575.8	1616.7	2859.3	3757.5	3801.7	3538.5	2581.3
77.5°	54.1	54.1	66.4	86.1	118.1	329.7	1454.3	2394.2	2438.5	2332.7	1609.3
80°	41.8	41.8	49.2	59.1	76.3	169.8	504.4	883.4	937.5	1001.5	664.4
82.5°	27.1	29.5	32.0	34.4	34.4	68.9	135.3	226.4	223.9	243.6	214.1
85°	17.2	17.2	14.8	14.8	12.3	17.2	12.3	14.8	17.2	17.2	19.7
87.5°	2.5	0.0	0.0	0.0	0.0	2.5	2.5	4.9	4.9	4.9	7.4
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°	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7	1173.7
2.5°	1178.7	1181.1	1183.6	1186.0	1191.0	1191.0	1193.4	1193.4	1193.4	1193.4	1193.4
5°	1193.4	1195.9	1203.3	1210.7	1227.9	1237.7	1247.6	1254.9	1254.9	1259.9	1259.9
7.5°	1215.6	1223.0	1245.1	1254.9	1269.7	1284.5	1291.9	1294.3	1299.2	1299.2	1299.2
10°	1252.5	1259.9	1277.1	1284.5	1291.9	1291.9	1289.4	1286.9	1279.6	1277.1	1279.6
12.5°	1286.9	1296.8	1296.8	1294.3	1286.9	1277.1	1264.8	1252.5	1240.2	1230.3	1230.3
15°	1328.8	1323.8	1309.1	1289.4	1269.7	1245.1	1220.5	1198.3	1178.7	1171.3	1171.3
17.5°	1365.7	1353.4	1321.4	1284.5	1242.6	1203.3	1163.9	1127.0	1092.5	1080.2	1072.9
20°	1410.0	1387.8	1331.2	1274.6	1215.6	1154.1	1087.6	1021.2	962.1	937.5	935.1
22.5°	1461.6	1424.7	1346.0	1259.9	1181.1	1087.6	976.9	883.4	824.3	794.8	789.9
25°	1523.2	1469.0	1360.8	1247.6	1139.3	1001.5	853.9	748.0	674.2	642.2	629.9
27.5°	1599.4	1528.1	1380.4	1232.8	1075.3	895.7	728.4	605.3	524.1	484.8	479.8
30°	1697.9	1599.4	1400.1	1210.7	996.6	772.7	593.0	455.2	374.0	334.7	324.8
32.5°	1924.2	1744.6	1424.7	1173.7	898.1	654.5	447.8	305.1	223.9	187.0	184.6
35°	2308.1	2071.9	1481.3	1124.5	799.7	514.3	287.9	162.4	120.6	105.8	105.8
37.5°	2596.0	2345.0	1633.9	1060.6	671.8	344.5	147.6	96.0	76.3	73.8	73.8
40°	2768.3	2507.4	1801.2	989.2	519.2	184.6	91.0	73.8	68.9	66.4	66.4
42.5°	2911.0	2642.8	1880.0	900.6	329.7	103.3	76.3	68.9	64.0	61.5	61.5
45°	3029.1	2746.1	1889.8	787.4	184.6	86.1	71.4	61.5	59.1	56.6	56.6
47.5°	3122.6	2834.7	1865.2	627.5	115.7	81.2	66.4	56.6	51.7	51.7	51.7
50°	3211.2	2911.0	1796.3	494.6	108.3	76.3	61.5	51.7	49.2	49.2	49.2
52.5°	3292.4	2965.1	1680.6	398.6	100.9	71.4	59.1	49.2	44.3	46.8	46.8
55°	3358.8	2987.3	1562.5	307.6	96.0	68.9	56.6	46.8	41.8	41.8	41.8
57.5°	3395.7	2940.5	1464.1	233.8	93.5	66.4	54.1	44.3	36.9	34.4	34.4
60°	3398.2	2879.0	1373.1	196.9	88.6	61.5	51.7	39.4	32.0	29.5	29.5
62.5°	3353.9	2805.2	1235.3	169.8	83.7	59.1	46.8	36.9	29.5	27.1	27.1
65°	3267.8	2674.8	1082.7	145.2	81.2	59.1	41.8	34.4	29.5	24.6	24.6
67.5°	3130.0	2458.2	878.5	128.0	76.3	54.1	41.8	32.0	27.1	24.6	24.6
70°	2869.2	2148.2	607.8	110.7	71.4	49.2	39.4	32.0	27.1	22.1	22.1
72.5°	2473.0	1744.6	300.2	91.0	61.5	49.2	39.4	29.5	24.6	22.1	22.1
75°	1911.9	1250.0	182.1	73.8	49.2	44.3	36.9	29.5	24.6	19.7	19.7
77.5°	1124.5	556.1	130.4	56.6	36.9	34.4	32.0	27.1	22.1	19.7	19.7
80°	410.9	236.2	96.0	44.3	29.5	29.5	24.6	22.1	19.7	17.2	17.2
82.5°	159.9	125.5	64.0	32.0	24.6	22.1	19.7	17.2	14.8	14.8	14.8
85°	22.1	22.1	22.1	17.2	14.8	14.8	12.3	12.3	9.8	9.8	9.8
87.5°	7.4	7.4	7.4	9.8	7.4	7.4	4.9	4.9	4.9	7.4	7.4
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)