

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: P507741

Luminaire Tested: **VERD-S-CA1-80-740-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-740-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1500mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10755 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

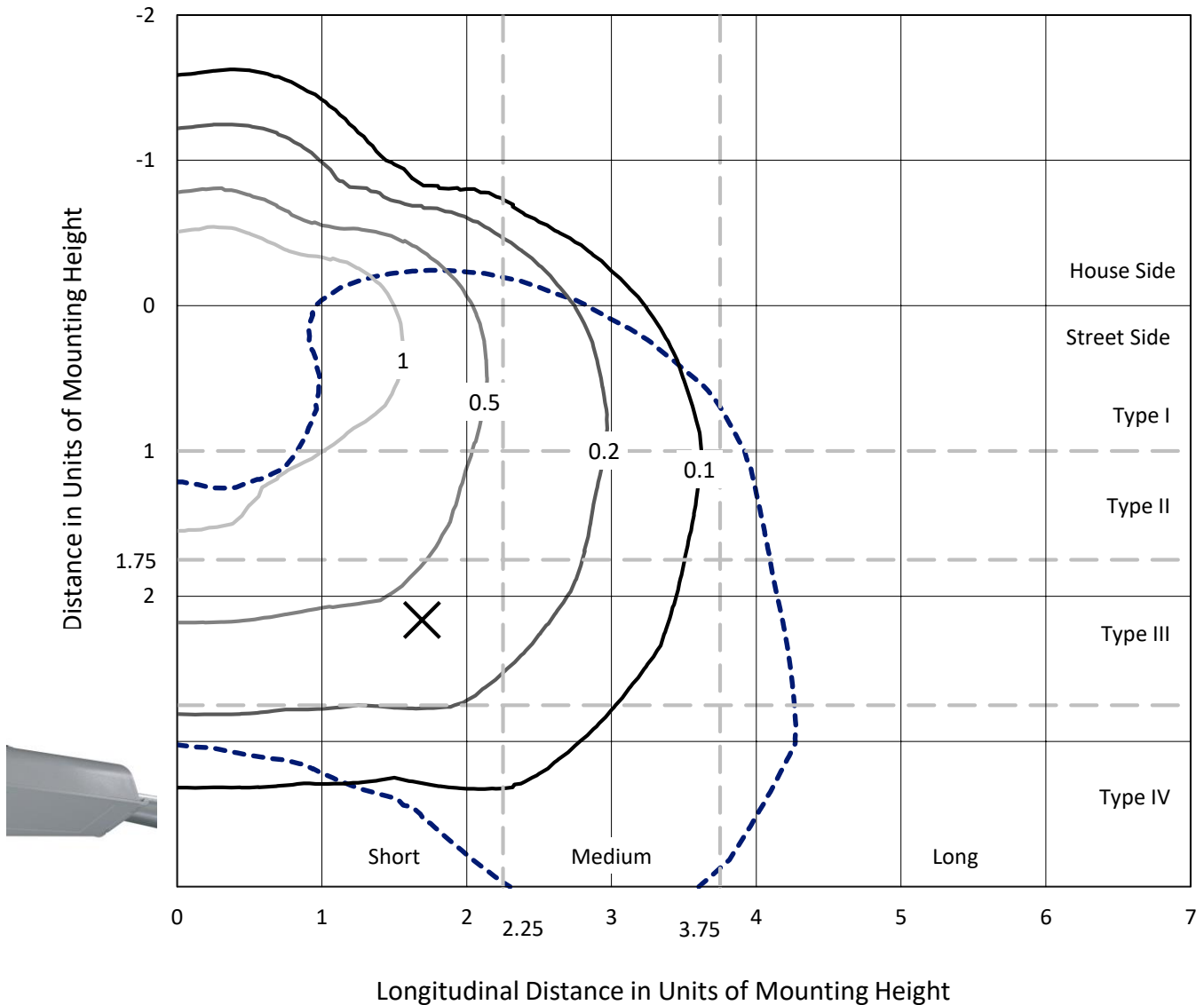
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

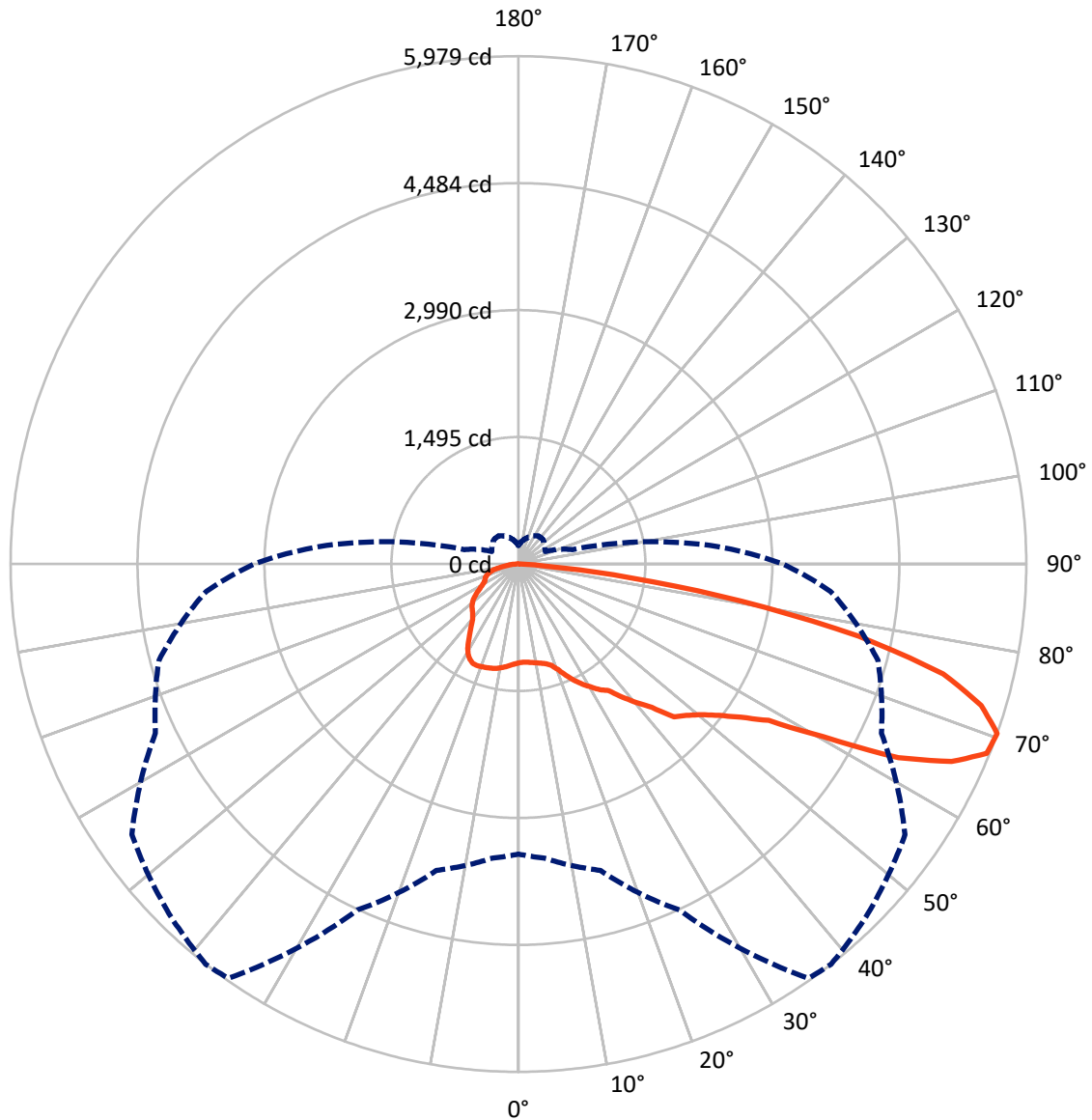
✕ Max cd
 - - - 1/2 Max cd



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 38-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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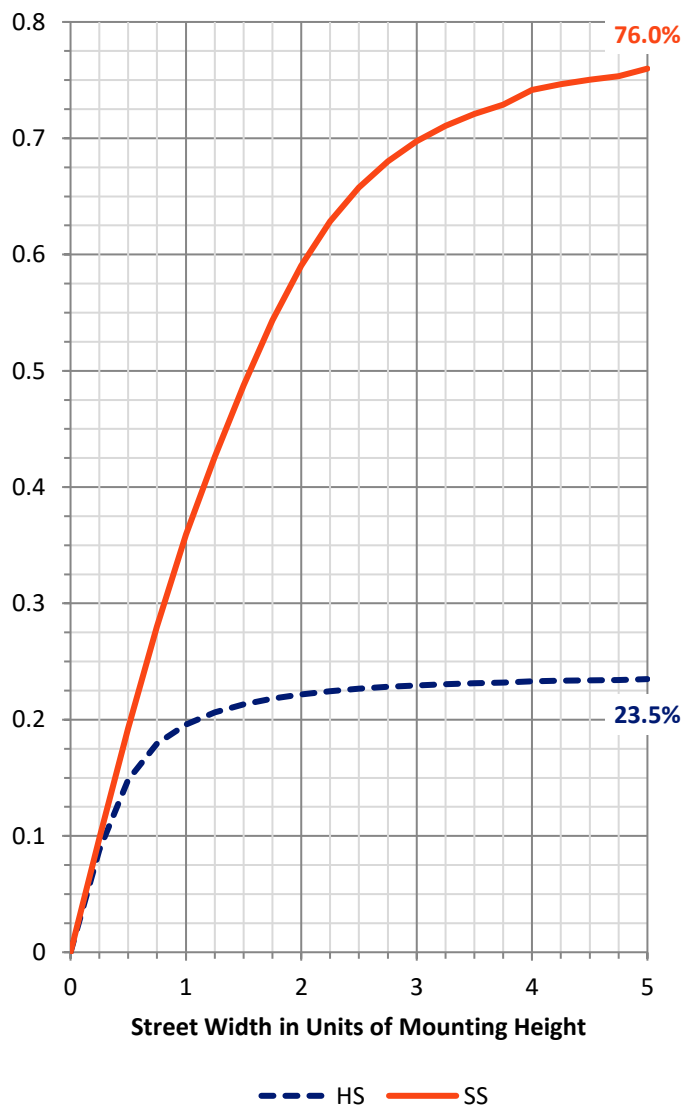
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2554.4	0.0	2554.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	8200.6	0.0	8200.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	10755.0	0.0	10755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.1
10°-20°	357.1	3.3
20°-30°	662.5	6.2
30°-40°	1025.7	9.5
40°-50°	1519.9	14.1
50°-60°	2117.8	19.7
60°-70°	2719.7	25.3
70°-80°	1989.8	18.5
80°-90°	249.3	2.3
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°	10755.0	100.0
0°-180°	10755.0	100.0

Coefficient of Utilization



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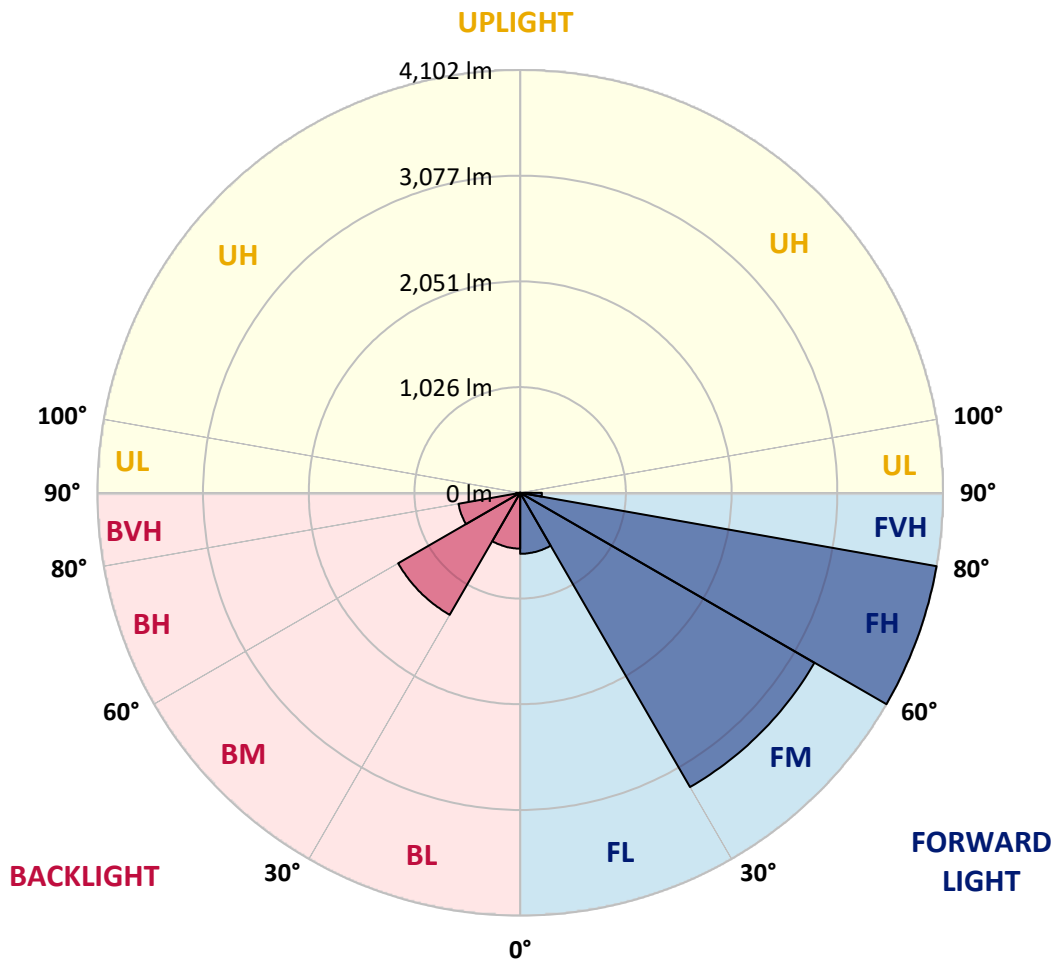
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.8	5.5			
FM (30°-60°)	3296.1	30.6			
FH (60°-80°)	4102.0	38.1			G2/5000
FVH (80°-90°)	210.6	2.0			G2/225
BL (0°-30°)	541.1	5.0	B2/1000		
BM (30°-60°)	1367.2	12.7	B2/2500		
BH (60°-80°)	607.4	5.6	B2/1000		G2/1000
BVH (80°-90°)	38.6	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1
2.5°	1159.1	1159.1	1159.1	1156.0	1156.0	1156.0	1152.9	1152.9	1156.0	1159.1	1159.1
5°	1168.3	1168.3	1165.2	1165.2	1162.1	1162.1	1162.1	1159.1	1159.1	1159.1	1165.2
7.5°	1171.3	1171.3	1171.3	1171.3	1171.3	1171.3	1174.4	1171.3	1171.3	1171.3	1177.5
10°	1171.3	1171.3	1174.4	1174.4	1180.5	1183.6	1186.6	1192.8	1192.8	1192.8	1195.8
12.5°	1177.5	1177.5	1180.5	1183.6	1192.8	1198.9	1205.0	1214.2	1217.3	1217.3	1220.4
15°	1189.7	1189.7	1192.8	1202.0	1214.2	1217.3	1226.5	1238.8	1251.0	1254.1	1257.2
17.5°	1238.8	1238.8	1238.8	1238.8	1251.0	1254.1	1266.4	1284.8	1297.0	1303.2	1312.4
20°	1336.9	1340.0	1333.8	1330.8	1324.6	1324.6	1324.6	1333.8	1349.2	1370.6	1386.0
22.5°	1462.6	1462.6	1462.6	1438.1	1422.8	1419.7	1419.7	1416.6	1428.9	1450.3	1471.8
25°	1560.7	1563.8	1560.7	1539.3	1520.9	1514.7	1514.7	1523.9	1523.9	1542.3	1566.9
27.5°	1640.5	1646.6	1637.4	1619.0	1603.7	1600.6	1603.7	1631.3	1646.6	1658.9	1689.5
30°	1726.3	1729.4	1707.9	1695.7	1686.5	1680.3	1683.4	1723.2	1775.4	1790.7	1842.8
32.5°	1885.8	1885.8	1855.1	1784.6	1760.0	1763.1	1763.1	1815.2	1885.8	1956.3	2023.7
35°	2036.0	2032.9	2005.3	1944.0	1852.0	1830.6	1842.8	1898.0	2008.4	2128.0	2247.6
37.5°	2213.9	2207.7	2183.2	2097.3	2020.7	1986.9	1919.5	1993.1	2128.0	2364.1	2486.8
40°	2413.2	2404.0	2348.8	2262.9	2161.7	2146.4	2088.1	2100.4	2278.2	2612.5	2753.5
42.5°	2523.5	2517.4	2480.6	2410.1	2336.5	2305.8	2256.8	2241.4	2480.6	2934.4	3005.0
45°	2627.8	2640.1	2640.1	2606.3	2575.7	2569.5	2535.8	2548.1	2741.3	3198.1	3225.7
47.5°	2692.2	2704.5	2664.6	2658.5	2658.5	2661.5	2695.3	2778.0	2977.4	3446.5	3418.9
50°	2885.4	2876.2	2716.7	2741.3	2768.8	2787.2	2860.8	2992.7	3305.4	3670.3	3587.5
52.5°	3234.9	3152.1	2962.0	2906.8	2922.2	2959.0	3057.1	3228.8	3639.7	3869.6	3734.7
55°	3667.3	3618.2	3446.5	3201.2	3121.5	3182.8	3287.1	3461.8	3897.2	4056.7	3851.2
57.5°	3958.6	3977.0	3998.4	3829.8	3458.8	3474.1	3544.6	3691.8	4154.8	4237.6	3943.2
60°	4252.9	4274.4	4394.0	4351.0	4265.2	4124.1	3866.6	3937.1	4348.0	4357.2	4010.7
62.5°	4486.0	4501.3	4679.1	4777.3	5001.1	5019.5	4617.8	4246.8	4550.4	4452.2	4038.3
65°	4369.4	4397.0	4663.8	4936.7	5553.0	5605.2	5473.3	4645.4	4706.7	4489.0	4016.8
67.5°	3977.0	4016.8	4298.9	4878.4	5905.7	5945.5	5816.7	5396.7	4761.9	4473.7	3912.6
70°	3415.8	3474.1	3734.7	4495.2	5954.7	5979.2	5819.8	5556.1	4715.9	4381.7	3688.7
72.5°	2778.0	2824.0	3087.7	3854.3	5657.3	5697.1	5648.1	5424.2	4617.8	4203.9	3238.0
75°	2128.0	2131.1	2410.1	3020.3	5007.2	5166.7	5249.5	5169.7	4351.0	3697.9	2492.9
77.5°	1343.0	1382.9	1668.1	2287.4	3934.0	4096.5	4133.3	4035.2	3044.8	2269.0	1073.2
80°	604.1	665.4	956.7	1545.4	2676.9	2670.7	2692.2	2450.0	1622.1	720.6	119.6
82.5°	217.7	230.0	401.7	775.8	1297.0	1330.8	1315.4	1131.5	438.5	101.2	73.6
85°	92.0	98.1	131.8	208.5	294.4	312.8	269.8	205.4	70.5	58.3	49.1
87.5°	6.1	6.1	6.1	6.1	6.1	9.2	9.2	9.2	9.2	12.3	15.3
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°	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1	1162.1
2.5°	1159.1	1162.1	1165.2	1171.3	1171.3	1174.4	1177.5	1180.5	1180.5	1180.5	1180.5
5°	1168.3	1171.3	1174.4	1183.6	1189.7	1192.8	1198.9	1202.0	1205.0	1205.0	1205.0
7.5°	1180.5	1183.6	1189.7	1198.9	1208.1	1214.2	1220.4	1223.4	1226.5	1226.5	1226.5
10°	1198.9	1205.0	1214.2	1226.5	1235.7	1235.7	1238.8	1241.8	1244.9	1244.9	1244.9
12.5°	1223.4	1229.6	1244.9	1260.2	1263.3	1260.2	1254.1	1254.1	1251.0	1248.0	1248.0
15°	1263.3	1266.4	1287.8	1300.1	1290.9	1275.6	1263.3	1251.0	1241.8	1235.7	1235.7
17.5°	1318.5	1327.7	1349.2	1349.2	1324.6	1297.0	1266.4	1235.7	1211.2	1202.0	1198.9
20°	1398.2	1410.5	1428.9	1410.5	1370.6	1321.6	1266.4	1217.3	1168.3	1137.6	1128.4
22.5°	1487.1	1502.5	1508.6	1468.7	1410.5	1343.0	1269.4	1192.8	1113.1	1045.6	1027.2
25°	1591.4	1600.6	1579.1	1514.7	1435.0	1349.2	1260.2	1159.1	1036.4	947.5	938.3
27.5°	1714.0	1704.9	1646.6	1548.5	1441.2	1336.9	1226.5	1091.6	938.3	870.8	861.6
30°	1845.9	1812.2	1704.9	1566.9	1422.8	1300.1	1168.3	990.4	864.7	809.5	803.4
32.5°	2002.3	1934.8	1760.0	1569.9	1389.0	1235.7	1073.2	907.6	815.6	754.3	748.2
35°	2177.1	2072.8	1809.1	1551.5	1321.6	1146.8	959.7	846.3	763.5	705.2	693.0
37.5°	2413.2	2259.8	1870.4	1511.7	1235.7	1033.3	877.0	781.9	711.4	647.0	637.8
40°	2655.4	2474.5	1956.3	1465.7	1140.7	941.3	806.4	735.9	674.6	601.0	585.7
42.5°	2897.6	2689.1	2072.8	1410.5	1045.6	870.8	775.8	729.8	656.2	579.5	564.2
45°	3096.9	2873.1	2183.2	1346.1	950.5	806.4	757.4	717.5	643.9	561.1	542.7
47.5°	3268.7	3026.4	2278.2	1287.8	858.6	757.4	742.0	696.0	625.5	542.7	524.3
50°	3412.8	3149.1	2354.9	1238.8	781.9	723.6	711.4	656.2	582.6	512.1	499.8
52.5°	3538.5	3238.0	2388.6	1223.4	705.2	683.8	662.3	607.1	539.7	475.3	456.9
55°	3621.3	3305.4	2382.5	1223.4	631.7	628.6	604.1	561.1	512.1	459.9	441.5
57.5°	3685.7	3336.1	2336.5	1045.6	570.3	558.1	542.7	524.3	493.7	435.4	417.0
60°	3716.3	3317.7	2238.4	760.4	509.0	487.5	499.8	493.7	463.0	383.3	371.0
62.5°	3697.9	3262.5	2017.6	555.0	444.6	441.5	459.9	447.7	389.4	318.9	312.8
65°	3627.4	3124.5	1735.5	417.0	407.8	429.3	438.5	413.9	358.8	294.4	269.8
67.5°	3446.5	2857.8	1263.3	374.1	395.5	420.1	426.2	392.5	337.3	276.0	245.3
70°	3112.3	2354.9	656.2	346.5	377.2	407.8	404.7	361.8	306.6	251.4	214.6
72.5°	2523.5	1671.1	248.4	309.7	349.6	380.2	374.1	325.0	217.7	156.4	141.0
75°	1637.4	800.3	214.6	266.8	312.8	340.4	343.4	294.4	190.1	131.8	113.5
77.5°	561.1	147.2	174.8	220.8	269.8	306.6	297.4	236.1	147.2	98.1	88.9
80°	95.1	98.1	134.9	156.4	187.0	245.3	208.5	168.6	116.5	70.5	58.3
82.5°	67.5	82.8	95.1	92.0	128.8	162.5	141.0	113.5	76.7	55.2	49.1
85°	49.1	55.2	52.1	55.2	73.6	107.3	98.1	79.7	55.2	39.9	33.7
87.5°	18.4	18.4	24.5	30.7	46.0	67.5	58.3	24.5	21.5	18.4	18.4
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)