

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: P233744

Luminaire Tested: **VERD-C01H-D-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C01H-D-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1210mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8203 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 73
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: 28.75 FT

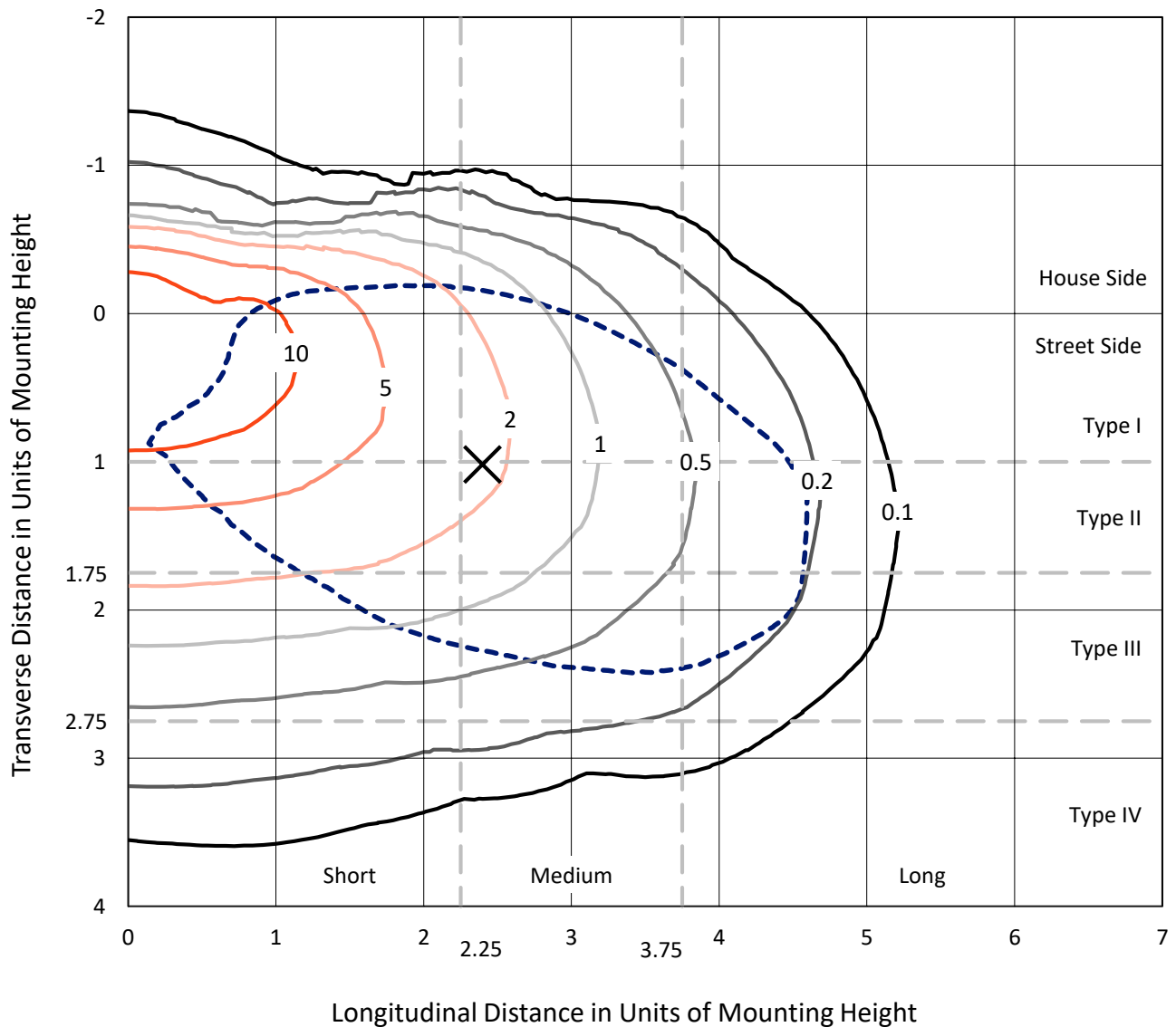


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

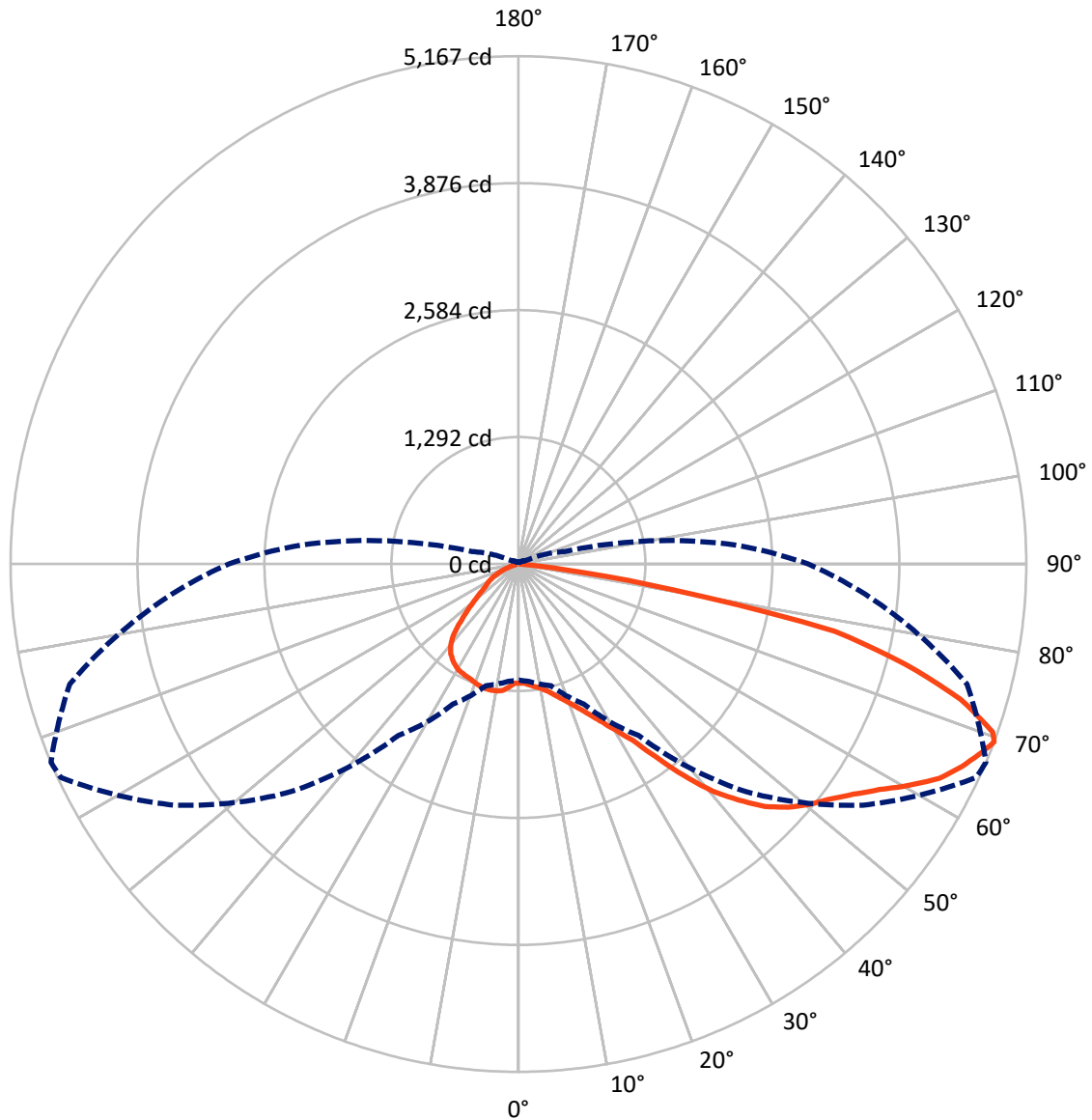


Based on 10 foot mounting height. Maximum calculated value = 14.9 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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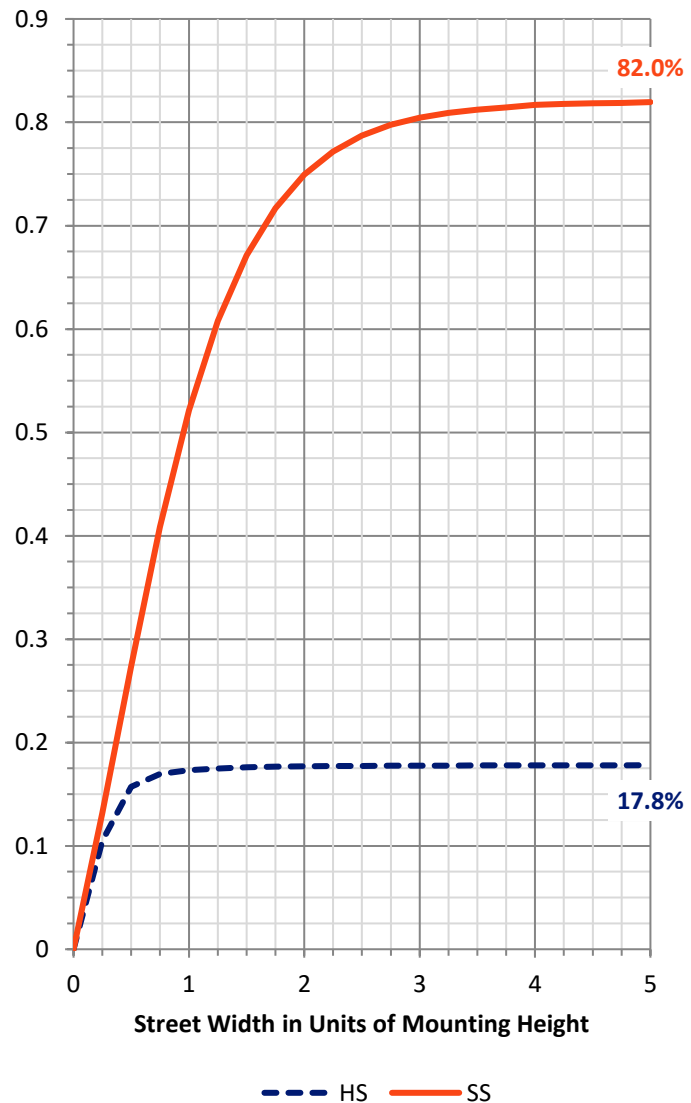
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.8	0.0	1478.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	6724.2	0.0	6724.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	8203.0	0.0	8203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.5
10°-20°	385.1	4.7
20°-30°	657.3	8.0
30°-40°	993.8	12.1
40°-50°	1404.0	17.1
50°-60°	1696.8	20.7
60°-70°	1790.4	21.8
70°-80°	1077.8	13.1
80°-90°	75.3	0.9
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°	8203.0	100.0
0°-180°	8203.0	100.0

Coefficient of Utilization



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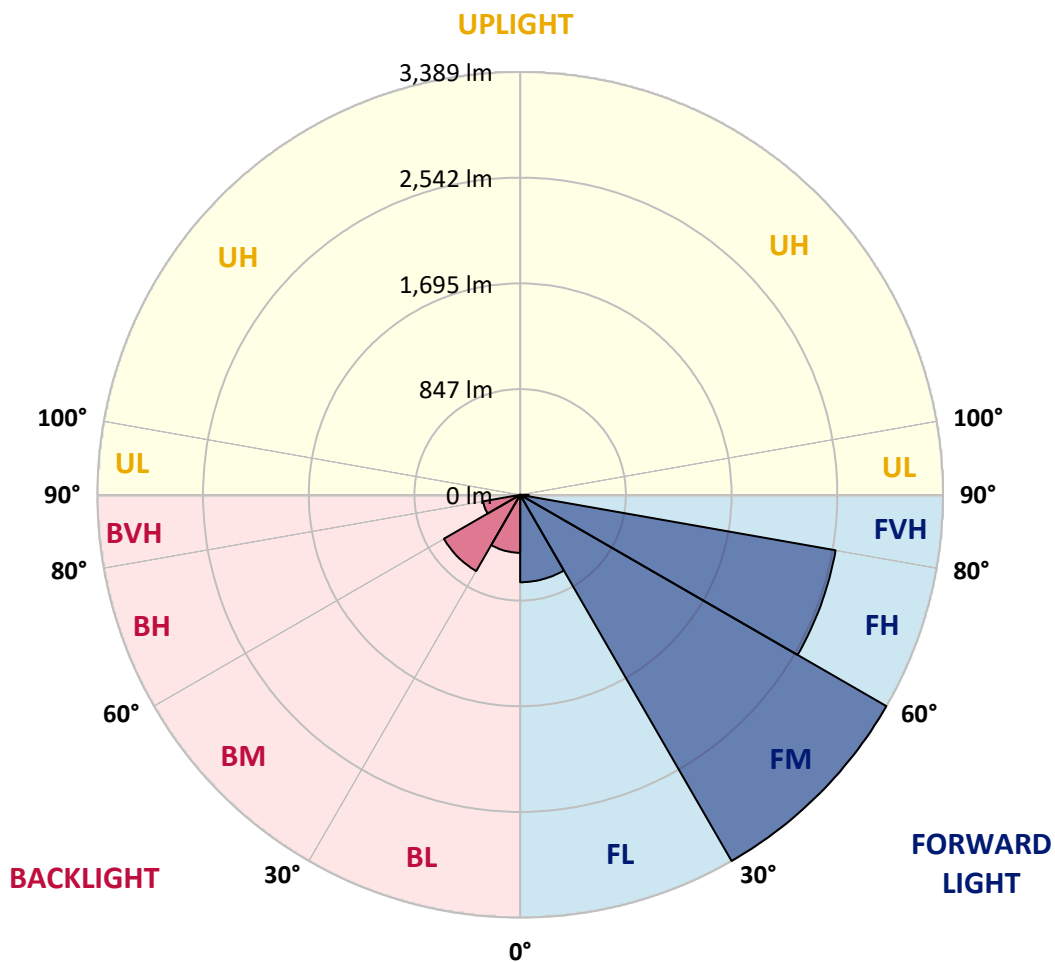
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	700.4	8.5			
FM	(30°-60°)	3389.0	41.3			
FH	(60°-80°)	2566.7	31.3			G2/5000
FVH	(80°-90°)	68.0	0.8			G1/100
BL	(0°-30°)	464.4	5.7	B1/500		
BM	(30°-60°)	705.6	8.6	B1/1000		
BH	(60°-80°)	301.5	3.7	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1
2.5°	1244.5	1242.5	1242.5	1231.4	1220.9	1218.3	1217.7	1214.4	1215.1	1210.5	1205.9
5°	1280.4	1280.4	1279.1	1264.7	1253.6	1246.4	1241.9	1236.0	1236.6	1233.4	1229.4
7.5°	1334.7	1335.3	1332.7	1313.8	1302.6	1285.0	1274.5	1263.4	1262.8	1258.9	1260.2
10°	1401.3	1403.3	1399.4	1375.2	1356.2	1332.1	1309.8	1290.2	1288.9	1284.3	1288.3
12.5°	1476.5	1479.1	1469.3	1444.5	1422.9	1385.0	1358.2	1332.1	1328.1	1327.5	1330.1
15°	1562.8	1564.1	1560.8	1524.2	1498.1	1463.4	1419.6	1386.3	1382.4	1383.0	1379.8
17.5°	1658.9	1662.1	1654.9	1622.3	1587.6	1539.9	1487.6	1446.4	1444.5	1442.5	1428.1
20°	1760.8	1764.1	1759.5	1728.8	1687.6	1627.5	1563.4	1516.4	1515.7	1511.1	1477.8
22.5°	1875.9	1880.4	1877.8	1840.6	1796.8	1731.4	1651.7	1602.7	1601.3	1587.0	1536.6
25°	2000.7	1999.4	2002.0	1962.1	1921.0	1852.3	1753.6	1702.7	1702.7	1685.0	1610.5
27.5°	2121.6	2121.0	2125.5	2097.4	2054.3	1989.6	1870.6	1819.0	1823.6	1798.1	1699.4
30°	2239.3	2239.3	2250.4	2232.1	2200.1	2132.1	2015.7	1961.5	1967.4	1940.6	1811.8
32.5°	2349.1	2354.3	2373.3	2362.1	2338.0	2276.5	2177.2	2127.5	2141.2	2152.3	2021.0
35°	2430.1	2435.4	2479.1	2483.1	2477.2	2436.0	2362.1	2394.2	2410.5	2498.1	2351.7
37.5°	2501.4	2507.9	2560.2	2592.9	2611.8	2586.3	2590.9	2698.1	2728.8	2832.1	2634.0
40°	2553.7	2568.0	2619.7	2664.8	2731.4	2761.5	2836.0	2988.3	3038.0	3079.2	2828.2
42.5°	2517.7	2527.5	2618.4	2739.3	2836.7	2942.6	3063.5	3244.5	3281.8	3268.7	2999.4
45°	2464.8	2476.5	2572.0	2758.9	2920.3	3131.4	3279.2	3475.2	3517.7	3445.2	3147.1
47.5°	2405.3	2421.6	2524.9	2732.7	2990.3	3305.3	3474.6	3673.3	3698.1	3602.7	3271.3
50°	2345.2	2363.5	2480.4	2711.2	3044.5	3450.4	3617.1	3834.7	3841.9	3733.4	3383.1
52.5°	2264.1	2283.1	2411.2	2666.1	3082.4	3545.8	3741.9	3967.4	3972.0	3874.6	3489.0
55°	2161.5	2185.7	2321.0	2599.4	3091.6	3601.4	3821.0	4105.3	4136.0	4027.5	3575.9
57.5°	2040.6	2062.8	2211.8	2503.3	3045.8	3620.3	3931.5	4287.7	4330.2	4182.4	3647.8
60°	1901.4	1926.8	2076.5	2379.1	2953.7	3673.3	4114.5	4545.2	4570.7	4344.5	3711.2
62.5°	1758.9	1777.2	1913.1	2204.6	2809.9	3705.3	4276.6	4787.0	4804.0	4500.8	3749.1
65°	1556.2	1579.1	1711.8	2004.6	2602.7	3643.9	4338.7	4952.4	4962.9	4631.5	3730.8
67.5°	1336.0	1354.3	1451.0	1763.4	2330.8	3449.1	4313.2	5062.9	5096.2	4733.4	3647.8
69°	1179.8	1198.1	1281.7	1570.6	2128.8	3276.5	4277.2	5138.0	5167.4	4726.3	3541.9
70°	1058.2	1076.5	1155.6	1426.8	1970.6	3130.8	4220.4	5100.1	5119.1	4645.9	3438.6
72.5°	756.9	775.2	839.9	1003.3	1492.8	2573.3	3868.1	4679.2	4704.7	4259.6	3073.3
75°	396.1	439.9	556.2	648.4	884.3	1811.8	3215.8	4024.3	4061.5	3738.0	2527.5
77.5°	51.0	53.6	156.9	263.4	365.4	764.1	2284.4	3231.4	3290.3	2991.6	1747.8
80°	41.2	41.8	54.2	131.4	181.7	309.8	810.5	1512.5	1583.7	1329.4	642.5
82.5°	28.8	30.1	42.5	69.3	59.5	113.1	281.7	427.5	440.5	381.1	256.2
85°	16.3	16.3	20.3	26.8	19.0	42.5	58.2	62.1	55.6	54.9	41.2
87.5°	4.6	5.2	5.9	4.6	2.0	2.0	2.6	2.6	2.6	2.0	2.0
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°	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1	1213.1
2.5°	1213.1	1211.8	1212.4	1215.1	1219.0	1233.4	1243.2	1244.5	1249.0	1266.0	1264.1
5°	1234.0	1241.9	1246.4	1260.2	1269.3	1288.9	1300.7	1302.0	1308.5	1326.2	1326.8
7.5°	1263.4	1276.5	1283.0	1298.7	1302.0	1311.1	1314.4	1311.1	1311.8	1327.5	1328.8
10°	1288.9	1305.3	1305.3	1309.2	1303.3	1304.0	1293.5	1283.7	1278.5	1292.2	1295.5
12.5°	1328.1	1332.7	1322.3	1310.5	1292.8	1277.2	1259.5	1243.8	1231.4	1239.2	1234.7
15°	1368.7	1361.5	1336.0	1305.3	1273.9	1247.1	1210.5	1187.6	1166.0	1170.6	1166.7
17.5°	1409.2	1385.7	1345.8	1294.8	1249.0	1198.1	1147.1	1111.1	1071.9	1068.7	1062.8
20°	1448.4	1414.4	1348.4	1273.2	1209.2	1137.3	1058.2	996.8	938.6	923.6	913.7
22.5°	1495.5	1446.4	1351.7	1252.3	1166.0	1068.0	948.4	853.0	790.2	769.3	759.5
25°	1555.6	1490.9	1360.8	1236.6	1122.2	982.4	818.3	709.2	641.2	605.2	602.0
27.5°	1626.8	1544.5	1376.5	1216.4	1060.2	868.0	683.7	569.9	497.4	460.8	449.0
30°	1720.3	1611.1	1390.9	1200.7	972.6	743.2	542.5	415.7	329.4	305.9	293.5
32.5°	1897.4	1719.6	1409.2	1164.1	869.3	606.6	384.3	256.2	197.4	181.7	181.7
35°	2185.7	1958.2	1454.9	1113.8	745.1	441.8	230.7	143.8	117.6	108.5	103.9
37.5°	2445.8	2198.7	1569.3	1036.0	594.1	261.4	132.0	88.9	80.4	81.7	81.7
40°	2629.5	2363.5	1695.5	930.7	403.3	139.9	83.7	71.2	72.6	73.2	73.2
42.5°	2787.0	2504.0	1764.7	805.9	219.6	90.9	71.9	64.7	66.7	66.0	65.4
45°	2919.0	2618.4	1787.6	634.0	106.5	80.4	65.4	59.5	59.5	58.8	58.8
47.5°	3032.1	2719.7	1745.1	471.3	86.3	73.9	62.1	54.9	54.2	57.5	57.5
50°	3135.4	2798.1	1639.3	356.9	83.7	68.0	58.8	51.0	51.6	56.2	56.2
52.5°	3221.6	2844.5	1482.4	267.3	77.8	62.7	54.2	47.7	47.7	52.3	52.3
55°	3285.7	2844.5	1362.8	200.0	74.5	57.5	50.3	45.8	43.1	44.4	45.1
57.5°	3317.7	2790.9	1266.7	162.1	70.6	52.3	46.4	39.9	35.3	36.6	35.9
60°	3309.2	2760.2	1156.2	144.4	66.0	48.4	41.2	34.0	29.4	28.1	28.1
62.5°	3293.5	2725.6	1018.3	125.5	61.4	45.1	34.0	27.5	24.8	23.5	24.2
65°	3234.1	2613.1	843.8	104.6	56.9	43.8	28.8	24.2	21.6	20.3	20.3
67.5°	3090.3	2410.5	637.9	88.2	52.9	35.3	24.8	20.9	18.3	17.0	17.0
69°	2947.8	2217.0	489.6	80.4	50.3	32.0	22.9	19.0	17.0	15.0	15.0
70°	2824.9	2067.4	383.7	75.2	48.4	30.7	22.2	18.3	16.3	14.4	14.4
72.5°	2405.3	1639.9	194.8	65.4	40.5	26.8	19.6	16.3	13.7	11.8	11.8
75°	1866.1	1130.1	128.8	51.6	31.4	24.2	17.6	14.4	11.8	9.8	9.2
77.5°	1122.9	441.8	92.2	33.3	20.3	19.0	14.4	11.8	9.8	7.8	7.8
80°	309.8	189.5	62.1	22.2	11.8	12.4	10.5	8.5	7.2	5.9	5.9
82.5°	186.3	122.9	41.2	14.4	7.8	7.8	5.9	5.9	4.6	4.6	4.6
85°	32.0	24.8	9.8	5.9	4.6	4.6	3.3	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	2.6	2.6	2.0	1.3	0.7	0.0	0.0	0.0
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)