

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: P507693

Luminaire Tested: **VERD-S-CA1-70-740-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507693
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-CA1-70-740-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1330mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9772 lumens
Efficiency: N/A
Efficacy: 133.0 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

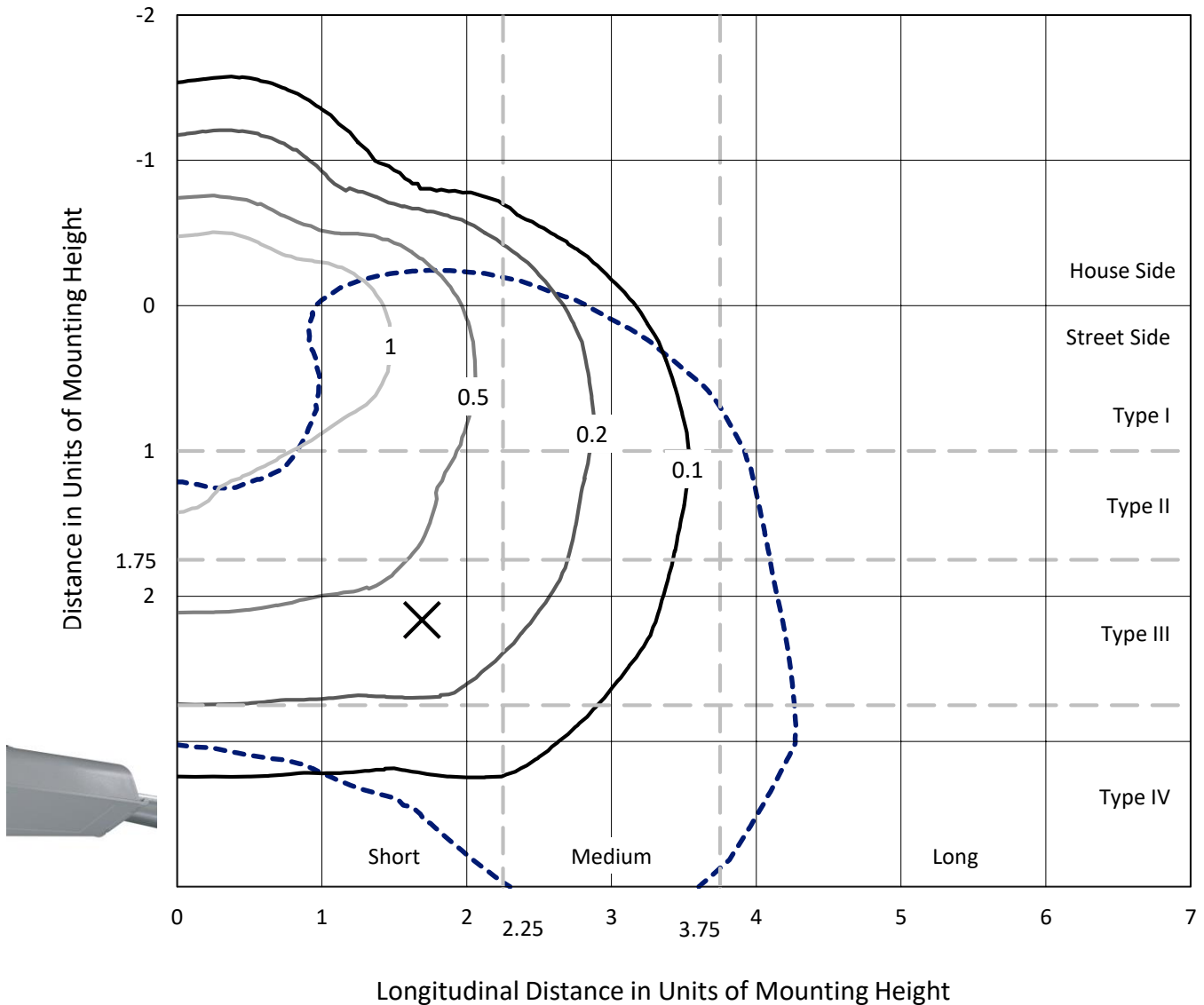
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

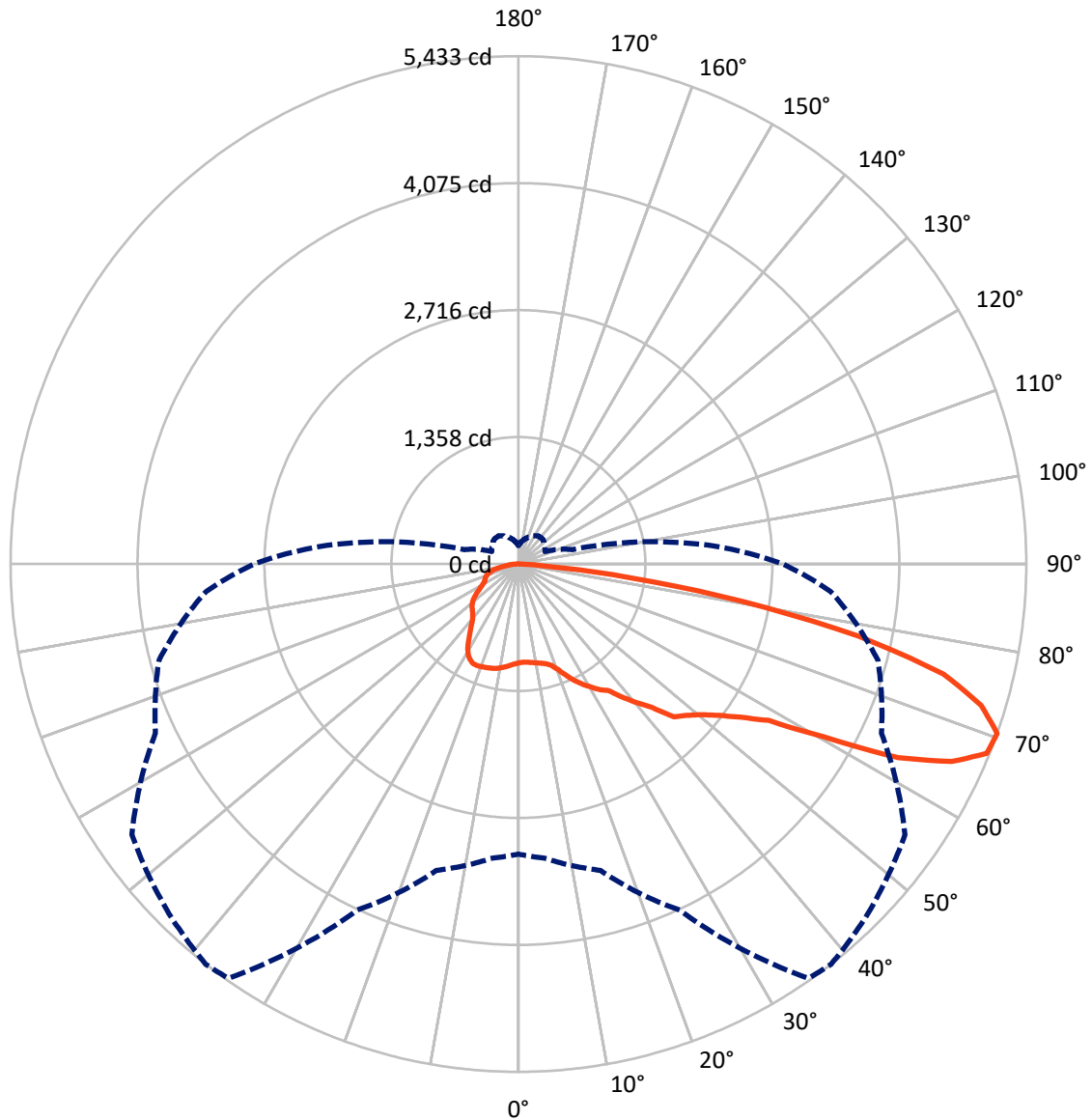
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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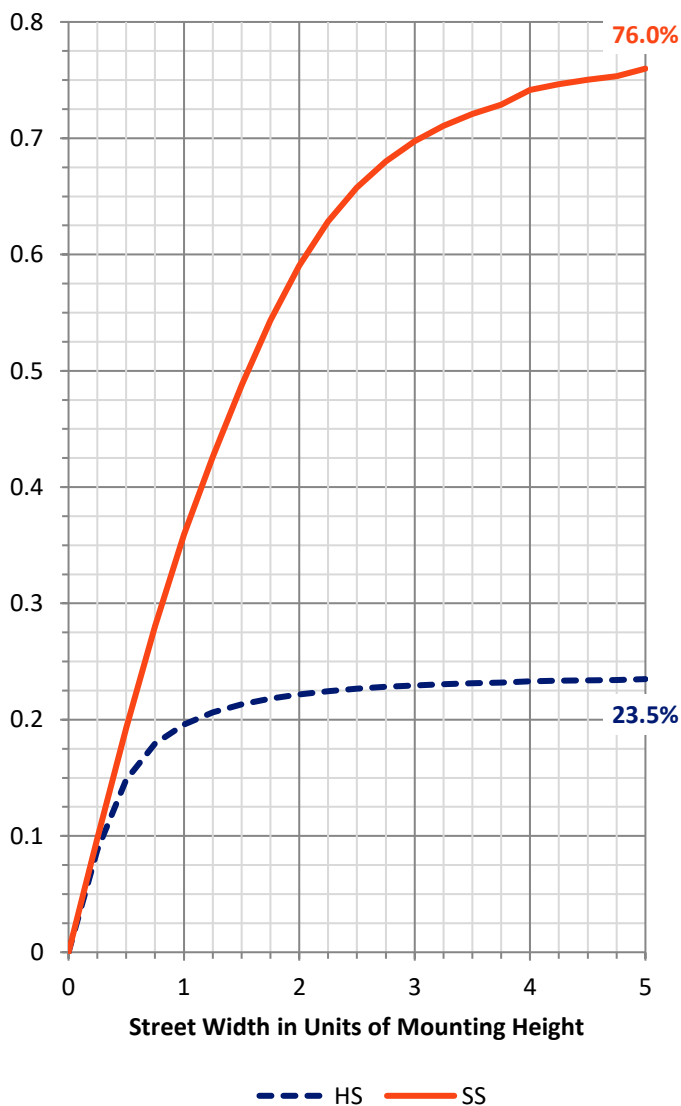
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2320.9	0.0	2320.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7451.1	0.0	7451.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	9772.0	0.0	9772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	1.1
10°-20°	324.4	3.3
20°-30°	602.0	6.2
30°-40°	932.0	9.5
40°-50°	1381.0	14.1
50°-60°	1924.2	19.7
60°-70°	2471.1	25.3
70°-80°	1807.9	18.5
80°-90°	226.5	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°	9772.0	100.0
0°-180°	9772.0	100.0

Coefficient of Utilization



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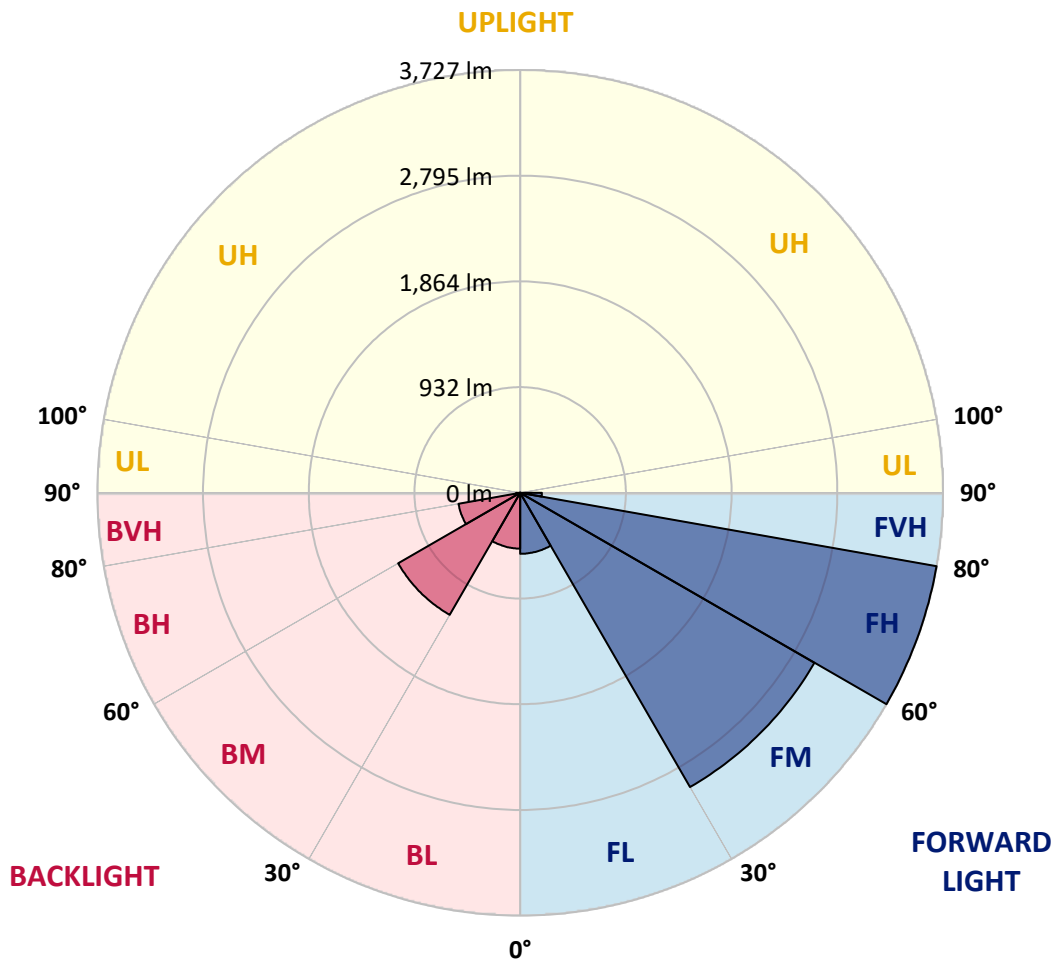
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	537.7	5.5			
FM (30°-60°)	2994.9	30.6			
FH (60°-80°)	3727.1	38.1			G2/5000
FVH (80°-90°)	191.4	2.0			G2/225
BL (0°-30°)	491.7	5.0	B1/500		
BM (30°-60°)	1242.3	12.7	B2/2500		
BH (60°-80°)	551.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	35.1	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°	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1053.1	1053.1	1053.1	1050.3	1050.3	1050.3	1047.5	1047.5	1050.3	1053.1	1053.1
5°	1061.5	1061.5	1058.7	1058.7	1055.9	1055.9	1055.9	1053.1	1053.1	1053.1	1058.7
7.5°	1064.3	1064.3	1064.3	1064.3	1064.3	1064.3	1067.0	1064.3	1064.3	1064.3	1069.8
10°	1064.3	1064.3	1067.0	1067.0	1072.6	1075.4	1078.2	1083.8	1083.8	1083.8	1086.5
12.5°	1069.8	1069.8	1072.6	1075.4	1083.8	1089.3	1094.9	1103.3	1106.1	1106.1	1108.8
15°	1081.0	1081.0	1083.8	1092.1	1103.3	1106.1	1114.4	1125.6	1136.7	1139.5	1142.3
17.5°	1125.6	1125.6	1125.6	1125.6	1136.7	1139.5	1150.6	1167.3	1178.5	1184.1	1192.4
20°	1214.7	1217.5	1211.9	1209.1	1203.6	1203.6	1203.6	1211.9	1225.9	1245.4	1259.3
22.5°	1328.9	1328.9	1328.9	1306.6	1292.7	1289.9	1289.9	1287.1	1298.3	1317.8	1337.3
25°	1418.1	1420.9	1418.1	1398.6	1381.9	1376.3	1376.3	1384.7	1384.7	1401.4	1423.7
27.5°	1490.5	1496.1	1487.7	1471.0	1457.1	1454.3	1457.1	1482.2	1496.1	1507.2	1535.1
30°	1568.5	1571.3	1551.8	1540.7	1532.3	1526.7	1529.5	1565.7	1613.1	1627.0	1674.4
32.5°	1713.4	1713.4	1685.5	1621.5	1599.2	1602.0	1602.0	1649.3	1713.4	1777.5	1838.8
35°	1849.9	1847.1	1822.1	1766.3	1682.8	1663.3	1674.4	1724.5	1824.8	1933.5	2042.2
37.5°	2011.5	2005.9	1983.6	1905.6	1836.0	1805.3	1744.1	1810.9	1933.5	2148.0	2259.5
40°	2192.6	2184.2	2134.1	2056.1	1964.1	1950.2	1897.3	1908.4	2070.0	2373.7	2501.8
42.5°	2292.9	2287.3	2253.9	2189.8	2122.9	2095.1	2050.5	2036.6	2253.9	2666.2	2730.3
45°	2387.6	2398.8	2398.8	2368.1	2340.3	2334.7	2304.0	2315.2	2490.7	2905.8	2930.9
47.5°	2446.1	2457.3	2421.1	2415.5	2415.5	2418.3	2448.9	2524.1	2705.2	3131.5	3106.4
50°	2621.6	2613.3	2468.4	2490.7	2515.8	2532.5	2599.4	2719.2	3003.3	3334.9	3259.6
52.5°	2939.3	2864.0	2691.3	2641.1	2655.1	2688.5	2777.7	2933.7	3307.0	3516.0	3393.4
55°	3332.1	3287.5	3131.5	2908.6	2836.2	2891.9	2986.6	3145.4	3541.0	3685.9	3499.2
57.5°	3596.8	3613.5	3633.0	3479.7	3142.6	3156.6	3220.6	3354.4	3775.1	3850.3	3582.8
60°	3864.2	3883.7	3992.4	3953.4	3875.4	3747.2	3513.2	3577.3	3950.6	3958.9	3644.1
62.5°	4076.0	4089.9	4251.5	4340.6	4544.0	4560.7	4195.8	3858.6	4134.5	4045.3	3669.2
65°	3970.1	3995.2	4237.5	4485.5	5045.5	5092.8	4973.1	4220.8	4276.5	4078.7	3649.7
67.5°	3613.5	3649.7	3906.0	4432.6	5365.9	5402.1	5285.1	4903.4	4326.7	4064.8	3555.0
70°	3103.6	3156.6	3393.4	4084.3	5410.5	5432.7	5287.9	5048.3	4284.9	3981.2	3351.6
72.5°	2524.1	2565.9	2805.5	3502.0	5140.2	5176.4	5131.9	4928.5	4195.8	3819.6	2942.0
75°	1933.5	1936.3	2189.8	2744.2	4549.6	4694.4	4769.7	4697.2	3953.4	3359.9	2265.0
77.5°	1220.3	1256.5	1515.6	2078.4	3574.5	3722.1	3755.6	3666.4	2766.5	2061.7	975.1
80°	548.8	604.6	869.2	1404.2	2432.2	2426.6	2446.1	2226.0	1473.8	654.7	108.7
82.5°	197.8	209.0	365.0	704.9	1178.5	1209.1	1195.2	1028.0	398.4	91.9	66.9
85°	83.6	89.2	119.8	189.4	267.5	284.2	245.2	186.7	64.1	52.9	44.6
87.5°	5.6	5.6	5.6	5.6	5.6	8.4	8.4	8.4	8.4	11.1	13.9
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°	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1053.1	1055.9	1058.7	1064.3	1064.3	1067.0	1069.8	1072.6	1072.6	1072.6	1072.6
5°	1061.5	1064.3	1067.0	1075.4	1081.0	1083.8	1089.3	1092.1	1094.9	1094.9	1094.9
7.5°	1072.6	1075.4	1081.0	1089.3	1097.7	1103.3	1108.8	1111.6	1114.4	1114.4	1114.4
10°	1089.3	1094.9	1103.3	1114.4	1122.8	1122.8	1125.6	1128.3	1131.1	1131.1	1131.1
12.5°	1111.6	1117.2	1131.1	1145.1	1147.8	1145.1	1139.5	1139.5	1136.7	1133.9	1133.9
15°	1147.8	1150.6	1170.1	1181.3	1172.9	1159.0	1147.8	1136.7	1128.3	1122.8	1122.8
17.5°	1198.0	1206.3	1225.9	1225.9	1203.6	1178.5	1150.6	1122.8	1100.5	1092.1	1089.3
20°	1270.4	1281.6	1298.3	1281.6	1245.4	1200.8	1150.6	1106.1	1061.5	1033.6	1025.3
22.5°	1351.2	1365.2	1370.7	1334.5	1281.6	1220.3	1153.4	1083.8	1011.3	950.0	933.3
25°	1445.9	1454.3	1434.8	1376.3	1303.9	1225.9	1145.1	1053.1	941.7	860.9	852.5
27.5°	1557.4	1549.0	1496.1	1406.9	1309.4	1214.7	1114.4	991.8	852.5	791.2	782.9
30°	1677.2	1646.5	1549.0	1423.7	1292.7	1181.3	1061.5	899.9	785.7	735.5	729.9
32.5°	1819.3	1758.0	1599.2	1426.4	1262.1	1122.8	975.1	824.7	741.1	685.4	679.8
35°	1978.1	1883.4	1643.8	1409.7	1200.8	1042.0	872.0	768.9	693.7	640.8	629.6
37.5°	2192.6	2053.3	1699.5	1373.5	1122.8	938.9	796.8	710.4	646.4	587.9	579.5
40°	2412.7	2248.3	1777.5	1331.7	1036.4	855.3	732.7	668.6	612.9	546.1	532.1
42.5°	2632.8	2443.3	1883.4	1281.6	950.0	791.2	704.9	663.1	596.2	526.6	512.6
45°	2813.9	2610.5	1983.6	1223.1	863.7	732.7	688.1	651.9	585.1	509.8	493.1
47.5°	2969.9	2749.8	2070.0	1170.1	780.1	688.1	674.2	632.4	568.3	493.1	476.4
50°	3100.8	2861.2	2139.7	1125.6	710.4	657.5	646.4	596.2	529.3	465.3	454.1
52.5°	3215.1	2942.0	2170.3	1111.6	640.8	621.3	601.8	551.6	490.3	431.8	415.1
55°	3290.3	3003.3	2164.7	1111.6	573.9	571.1	548.8	509.8	465.3	417.9	401.2
57.5°	3348.8	3031.2	2122.9	950.0	518.2	507.1	493.1	476.4	448.5	395.6	378.9
60°	3376.7	3014.5	2033.8	690.9	462.5	443.0	454.1	448.5	420.7	348.3	337.1
62.5°	3359.9	2964.3	1833.2	504.3	404.0	401.2	417.9	406.8	353.8	289.7	284.2
65°	3295.9	2839.0	1576.9	378.9	370.5	390.0	398.4	376.1	326.0	267.5	245.2
67.5°	3131.5	2596.6	1147.8	339.9	359.4	381.7	387.3	356.6	306.5	250.7	222.9
70°	2827.8	2139.7	596.2	314.8	342.7	370.5	367.8	328.8	278.6	228.5	195.0
72.5°	2292.9	1518.4	225.7	281.4	317.6	345.5	339.9	295.3	197.8	142.1	128.2
75°	1487.7	727.2	195.0	242.4	284.2	309.2	312.0	267.5	172.7	119.8	103.1
77.5°	509.8	133.7	158.8	200.6	245.2	278.6	270.2	214.5	133.7	89.2	80.8
80°	86.4	89.2	122.6	142.1	169.9	222.9	189.4	153.2	105.9	64.1	52.9
82.5°	61.3	75.2	86.4	83.6	117.0	147.7	128.2	103.1	69.7	50.1	44.6
85°	44.6	50.1	47.4	50.1	66.9	97.5	89.2	72.4	50.1	36.2	30.6
87.5°	16.7	16.7	22.3	27.9	41.8	61.3	52.9	22.3	19.5	16.7	16.7
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)