

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: P507701

Luminaire Tested: **VERD-S-CA1-70-750-U-T4**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507701
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-CA1-70-750-U-T4
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1330mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9951 lumens
Efficiency: N/A
Efficacy: 135.4 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

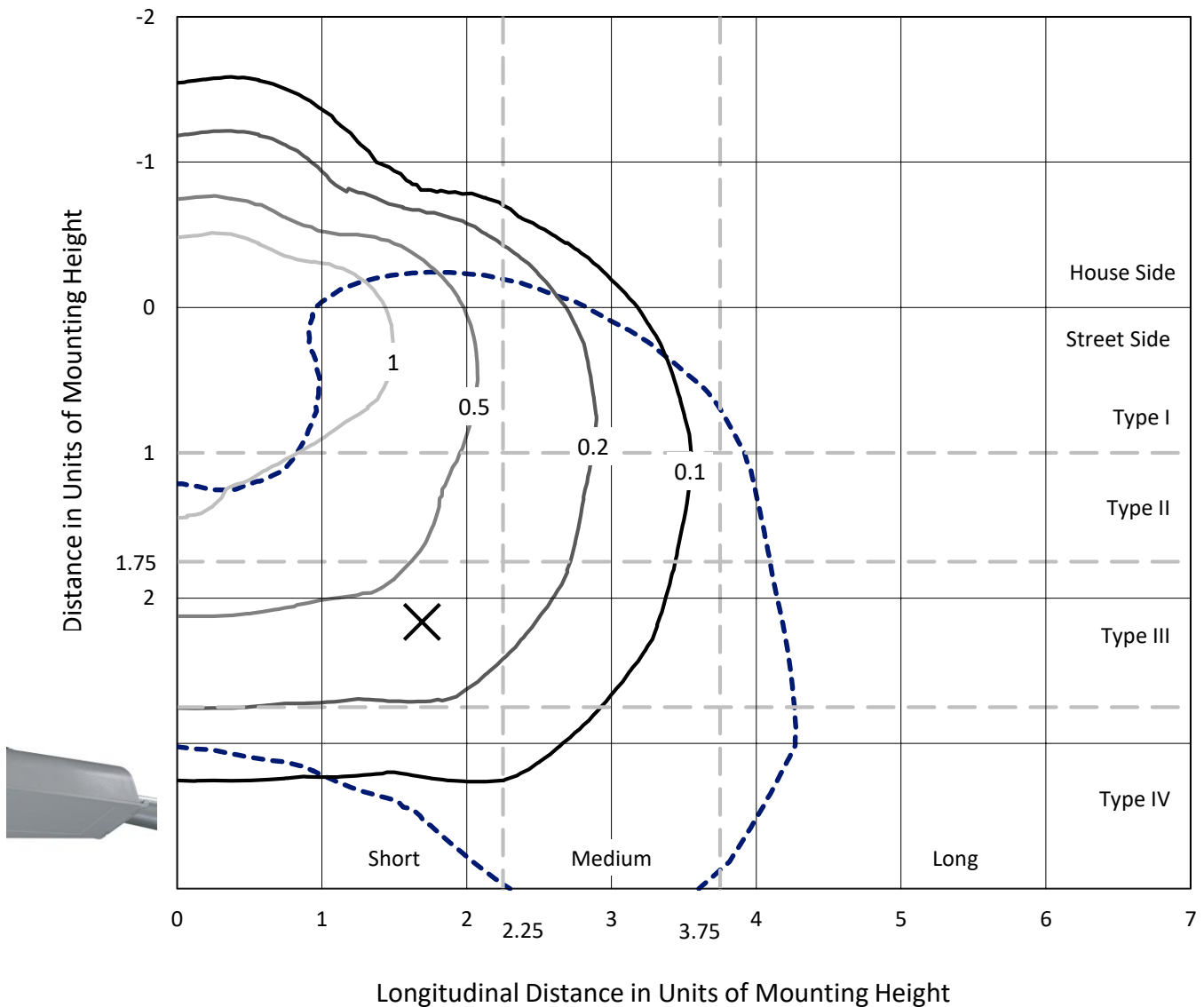
Input Watts (W): 73.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

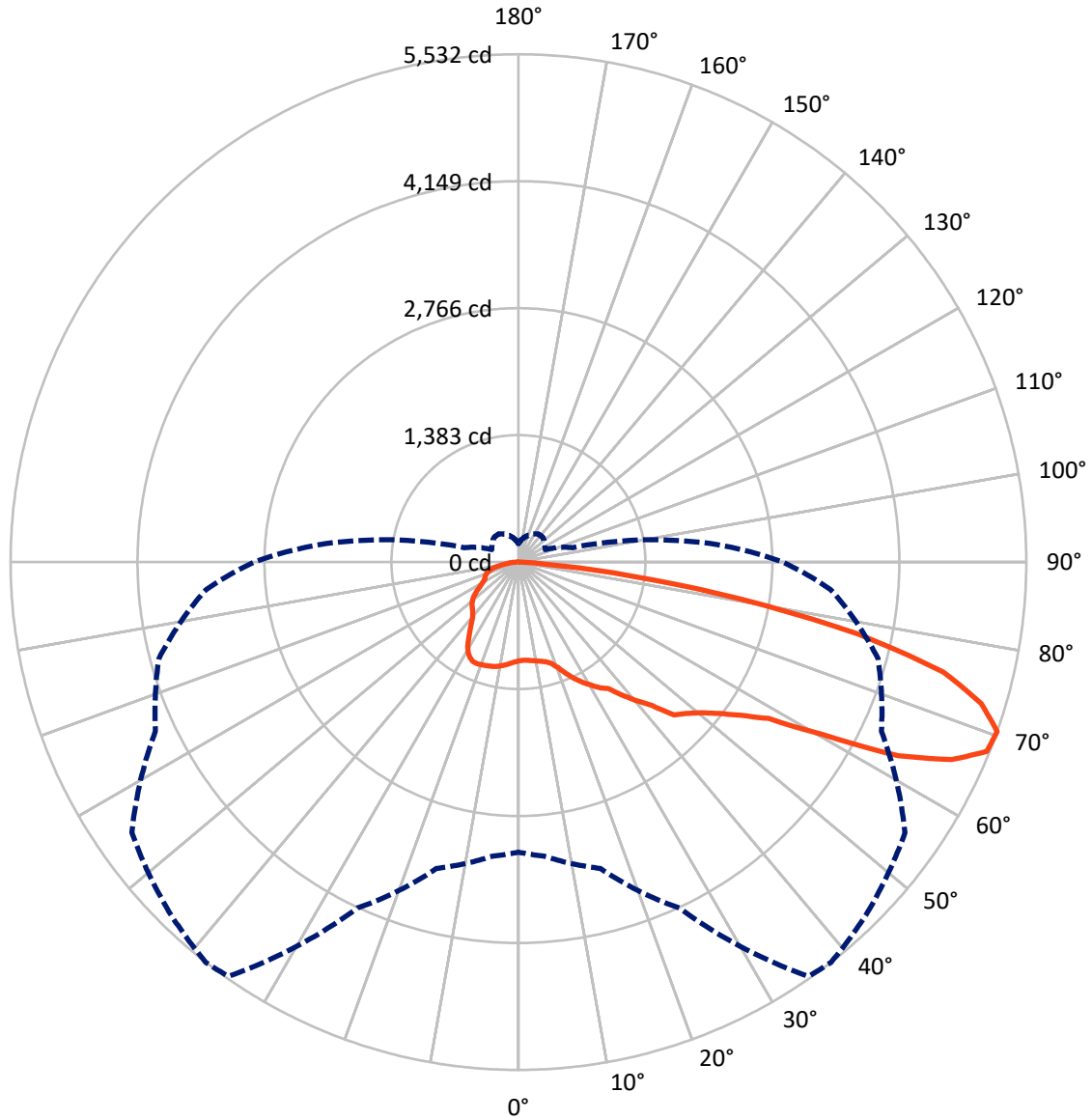
× Max cd
 - - - 1/2 Max cd



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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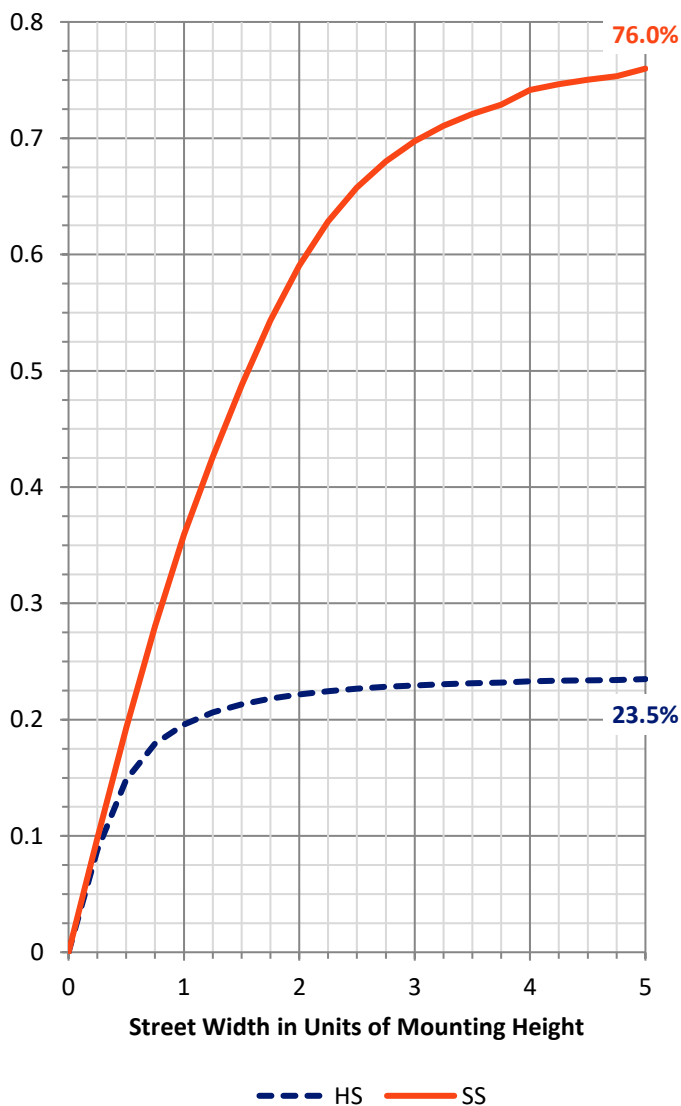
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2363.5	0.0	2363.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	7587.5	0.0	7587.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	9951.0	0.0	9951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	1.1
10°-20°	330.4	3.3
20°-30°	613.0	6.2
30°-40°	949.0	9.5
40°-50°	1406.3	14.1
50°-60°	1959.4	19.7
60°-70°	2516.4	25.3
70°-80°	1841.0	18.5
80°-90°	230.6	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°	9951.0	100.0
0°-180°	9951.0	100.0

Coefficient of Utilization



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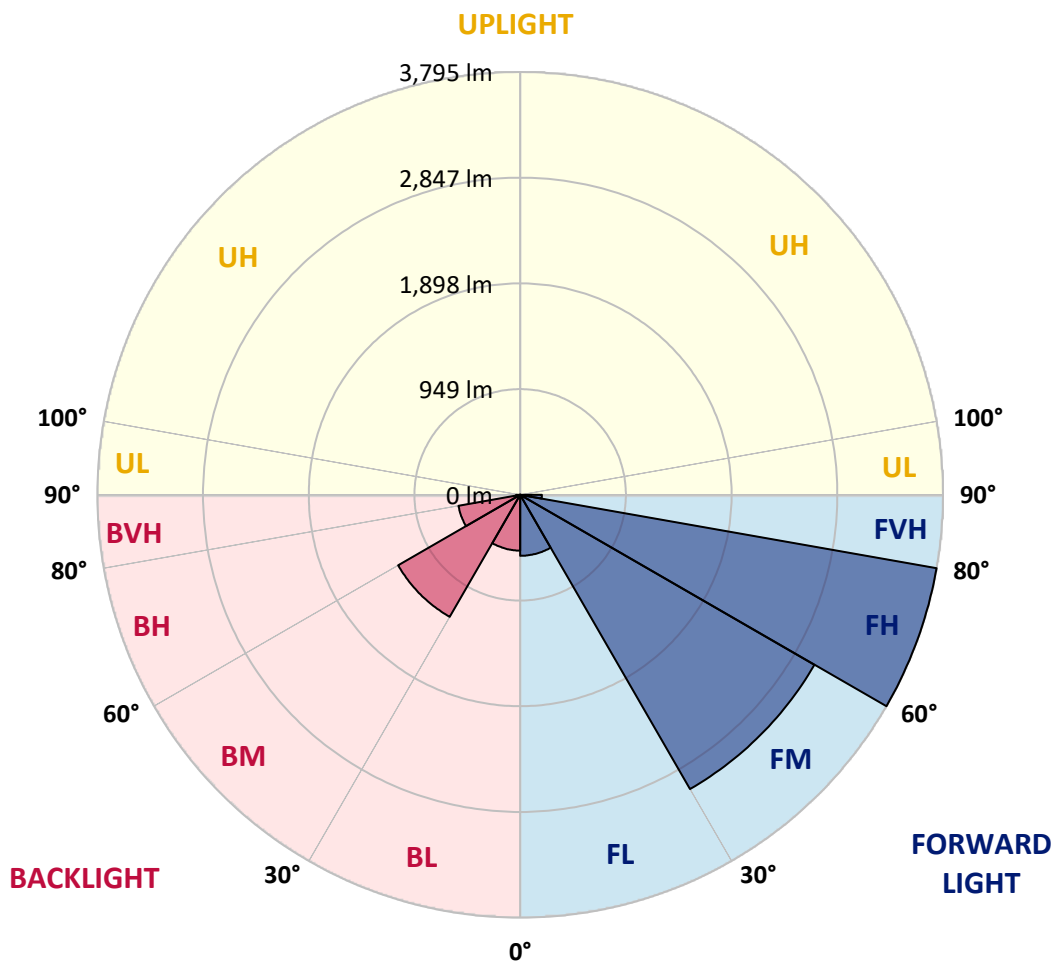
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.6	5.5			
FM	(30°-60°)	3049.7	30.6			
FH	(60°-80°)	3795.4	38.1			G2/5000
FVH	(80°-90°)	194.9	2.0			G2/225
BL	(0°-30°)	500.7	5.0	B2/1000		
BM	(30°-60°)	1265.0	12.7	B2/2500		
BH	(60°-80°)	562.0	5.6	B2/1000		G2/1000
BVH	(80°-90°)	35.8	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°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1072.4	1072.4	1072.4	1069.6	1069.6	1069.6	1066.7	1066.7	1069.6	1072.4	1072.4
5°	1080.9	1080.9	1078.1	1078.1	1075.2	1075.2	1075.2	1072.4	1072.4	1072.4	1078.1
7.5°	1083.8	1083.8	1083.8	1083.8	1083.8	1083.8	1086.6	1083.8	1083.8	1083.8	1089.4
10°	1083.8	1083.8	1086.6	1086.6	1092.3	1095.1	1097.9	1103.6	1103.6	1103.6	1106.5
12.5°	1089.4	1089.4	1092.3	1095.1	1103.6	1109.3	1115.0	1123.5	1126.3	1126.3	1129.1
15°	1100.8	1100.8	1103.6	1112.1	1123.5	1126.3	1134.8	1146.2	1157.5	1160.4	1163.2
17.5°	1146.2	1146.2	1146.2	1146.2	1157.5	1160.4	1171.7	1188.7	1200.1	1205.7	1214.3
20°	1237.0	1239.8	1234.1	1231.3	1225.6	1225.6	1225.6	1234.1	1248.3	1268.2	1282.3
22.5°	1353.3	1353.3	1353.3	1330.6	1316.4	1313.6	1313.6	1310.7	1322.1	1341.9	1361.8
25°	1444.1	1446.9	1444.1	1424.2	1407.2	1401.5	1401.5	1410.0	1410.0	1427.0	1449.7
27.5°	1517.8	1523.5	1515.0	1498.0	1483.8	1480.9	1483.8	1509.3	1523.5	1534.8	1563.2
30°	1597.3	1600.1	1580.2	1568.9	1560.4	1554.7	1557.5	1594.4	1642.7	1656.8	1705.1
32.5°	1744.8	1744.8	1716.4	1651.2	1628.5	1631.3	1631.3	1679.5	1744.8	1810.0	1872.5
35°	1883.8	1881.0	1855.4	1798.7	1713.6	1693.7	1705.1	1756.1	1858.3	1968.9	2079.6
37.5°	2048.4	2042.7	2020.0	1940.5	1869.6	1838.4	1776.0	1844.1	1968.9	2187.4	2300.9
40°	2232.8	2224.3	2173.2	2093.7	2000.1	1985.9	1932.0	1943.4	2107.9	2417.2	2547.7
42.5°	2334.9	2329.2	2295.2	2229.9	2161.8	2133.5	2088.1	2073.9	2295.2	2715.1	2780.3
45°	2431.4	2442.7	2442.7	2411.5	2383.1	2377.5	2346.2	2357.6	2536.3	2959.0	2984.6
47.5°	2490.9	2502.3	2465.4	2459.7	2459.7	2462.6	2493.8	2570.4	2754.8	3188.9	3163.3
50°	2669.7	2661.2	2513.6	2536.3	2561.9	2578.9	2647.0	2769.0	3058.3	3396.0	3319.4
52.5°	2993.1	2916.5	2740.6	2689.5	2703.7	2737.8	2828.5	2987.4	3367.6	3580.4	3455.5
55°	3393.1	3347.7	3188.9	2961.9	2888.1	2944.9	3041.3	3203.0	3605.9	3753.4	3563.3
57.5°	3662.6	3679.7	3699.5	3543.5	3200.2	3214.4	3279.6	3415.8	3844.2	3920.8	3648.5
60°	3935.0	3954.9	4065.5	4025.8	3946.3	3815.8	3577.5	3642.8	4022.9	4031.5	3710.9
62.5°	4150.6	4164.8	4329.3	4420.1	4627.2	4644.3	4272.6	3929.3	4210.2	4119.4	3736.4
65°	4042.8	4068.3	4315.2	4567.7	5137.9	5186.1	5064.1	4298.1	4354.9	4153.5	3716.5
67.5°	3679.7	3716.5	3977.6	4513.8	5464.2	5501.1	5381.9	4993.2	4405.9	4139.3	3620.1
70°	3160.5	3214.4	3455.5	4159.1	5509.6	5532.3	5384.7	5140.7	4363.4	4054.2	3413.0
72.5°	2570.4	2612.9	2856.9	3566.2	5234.4	5271.3	5225.9	5018.8	4272.6	3889.6	2995.9
75°	1968.9	1971.8	2229.9	2794.5	4632.9	4780.4	4857.0	4783.3	4025.8	3421.5	2306.5
77.5°	1242.6	1279.5	1543.4	2116.4	3639.9	3790.3	3824.4	3733.6	2817.2	2099.4	993.0
80°	558.9	615.6	885.2	1429.9	2476.8	2471.1	2490.9	2266.8	1500.8	666.7	110.6
82.5°	201.4	212.8	371.7	717.8	1200.1	1231.3	1217.1	1046.9	405.7	93.6	68.1
85°	85.1	90.8	122.0	192.9	272.4	289.4	249.7	190.1	65.3	53.9	45.4
87.5°	5.7	5.7	5.7	5.7	5.7	8.5	8.5	8.5	8.5	11.3	14.2
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°	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2	1075.2
2.5°	1072.4	1075.2	1078.1	1083.8	1083.8	1086.6	1089.4	1092.3	1092.3	1092.3	1092.3
5°	1080.9	1083.8	1086.6	1095.1	1100.8	1103.6	1109.3	1112.1	1115.0	1115.0	1115.0
7.5°	1092.3	1095.1	1100.8	1109.3	1117.8	1123.5	1129.1	1132.0	1134.8	1134.8	1134.8
10°	1109.3	1115.0	1123.5	1134.8	1143.3	1143.3	1146.2	1149.0	1151.8	1151.8	1151.8
12.5°	1132.0	1137.7	1151.8	1166.0	1168.9	1166.0	1160.4	1160.4	1157.5	1154.7	1154.7
15°	1168.9	1171.7	1191.6	1202.9	1194.4	1180.2	1168.9	1157.5	1149.0	1143.3	1143.3
17.5°	1219.9	1228.4	1248.3	1248.3	1225.6	1200.1	1171.7	1143.3	1120.6	1112.1	1109.3
20°	1293.7	1305.0	1322.1	1305.0	1268.2	1222.8	1171.7	1126.3	1080.9	1052.5	1044.0
22.5°	1376.0	1390.2	1395.8	1358.9	1305.0	1242.6	1174.5	1103.6	1029.9	967.4	950.4
25°	1472.4	1480.9	1461.1	1401.5	1327.7	1248.3	1166.0	1072.4	958.9	876.7	868.1
27.5°	1585.9	1577.4	1523.5	1432.7	1333.4	1237.0	1134.8	1010.0	868.1	805.7	797.2
30°	1707.9	1676.7	1577.4	1449.7	1316.4	1202.9	1080.9	916.4	800.0	749.0	743.3
32.5°	1852.6	1790.2	1628.5	1452.6	1285.2	1143.3	993.0	839.8	754.7	697.9	692.2
35°	2014.3	1917.8	1673.9	1435.6	1222.8	1061.1	888.0	783.0	706.4	652.5	641.2
37.5°	2232.8	2090.9	1730.6	1398.7	1143.3	956.1	811.4	723.4	658.2	598.6	590.1
40°	2456.9	2289.5	1810.0	1356.1	1055.4	871.0	746.1	680.9	624.2	556.1	541.9
42.5°	2681.0	2488.1	1917.8	1305.0	967.4	805.7	717.8	675.2	607.1	536.2	522.0
45°	2865.4	2658.3	2020.0	1245.5	879.5	746.1	700.8	663.9	595.8	519.2	502.2
47.5°	3024.3	2800.2	2107.9	1191.6	794.4	700.8	686.6	644.0	578.8	502.2	485.1
50°	3157.6	2913.7	2178.9	1146.2	723.4	669.5	658.2	607.1	539.0	473.8	462.4
52.5°	3274.0	2995.9	2210.1	1132.0	652.5	632.7	612.8	561.7	499.3	439.7	422.7
55°	3350.6	3058.3	2204.4	1132.0	584.4	581.6	558.9	519.2	473.8	425.6	408.5
57.5°	3410.1	3086.7	2161.8	967.4	527.7	516.3	502.2	485.1	456.8	402.9	385.8
60°	3438.5	3069.7	2071.1	703.6	471.0	451.1	462.4	456.8	428.4	354.6	343.3
62.5°	3421.5	3018.6	1866.8	513.5	411.4	408.5	425.6	414.2	360.3	295.1	289.4
65°	3356.2	2891.0	1605.8	385.8	377.3	397.2	405.7	383.0	331.9	272.4	249.7
67.5°	3188.9	2644.1	1168.9	346.1	366.0	388.7	394.4	363.1	312.1	255.3	227.0
70°	2879.6	2178.9	607.1	320.6	349.0	377.3	374.5	334.8	283.7	232.6	198.6
72.5°	2334.9	1546.2	229.8	286.5	323.4	351.8	346.1	300.7	201.4	144.7	130.5
75°	1515.0	740.5	198.6	246.8	289.4	314.9	317.8	272.4	175.9	122.0	105.0
77.5°	519.2	136.2	161.7	204.3	249.7	283.7	275.2	218.5	136.2	90.8	82.3
80°	87.9	90.8	124.8	144.7	173.1	227.0	192.9	156.0	107.8	65.3	53.9
82.5°	62.4	76.6	87.9	85.1	119.2	150.4	130.5	105.0	70.9	51.1	45.4
85°	45.4	51.1	48.2	51.1	68.1	99.3	90.8	73.8	51.1	36.9	31.2
87.5°	17.0	17.0	22.7	28.4	42.6	62.4	53.9	22.7	19.9	17.0	17.0
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)