

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: P507748

Luminaire Tested: **VERD-S-CA1-80-750-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-80-750-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1500mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9875 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

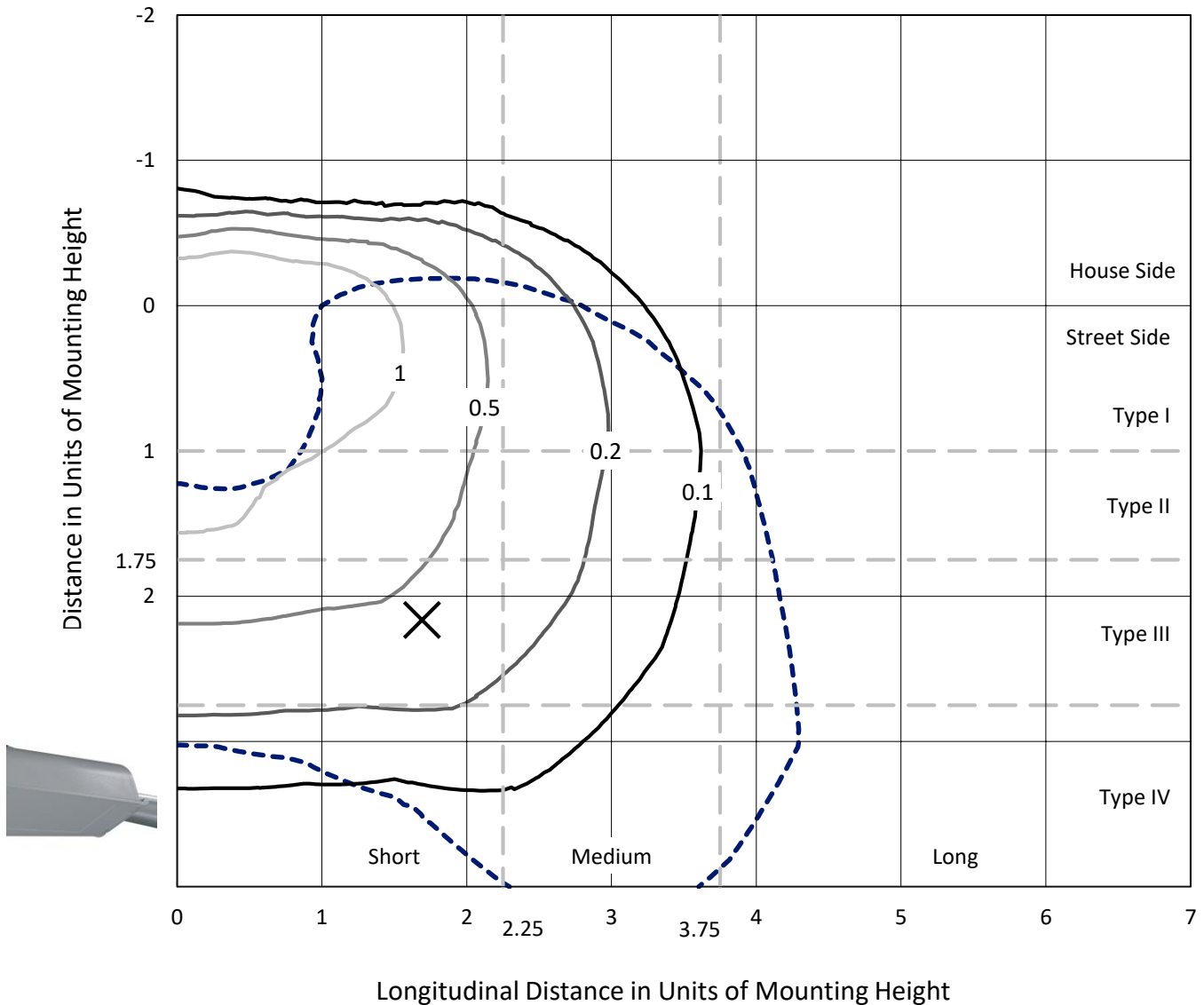
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

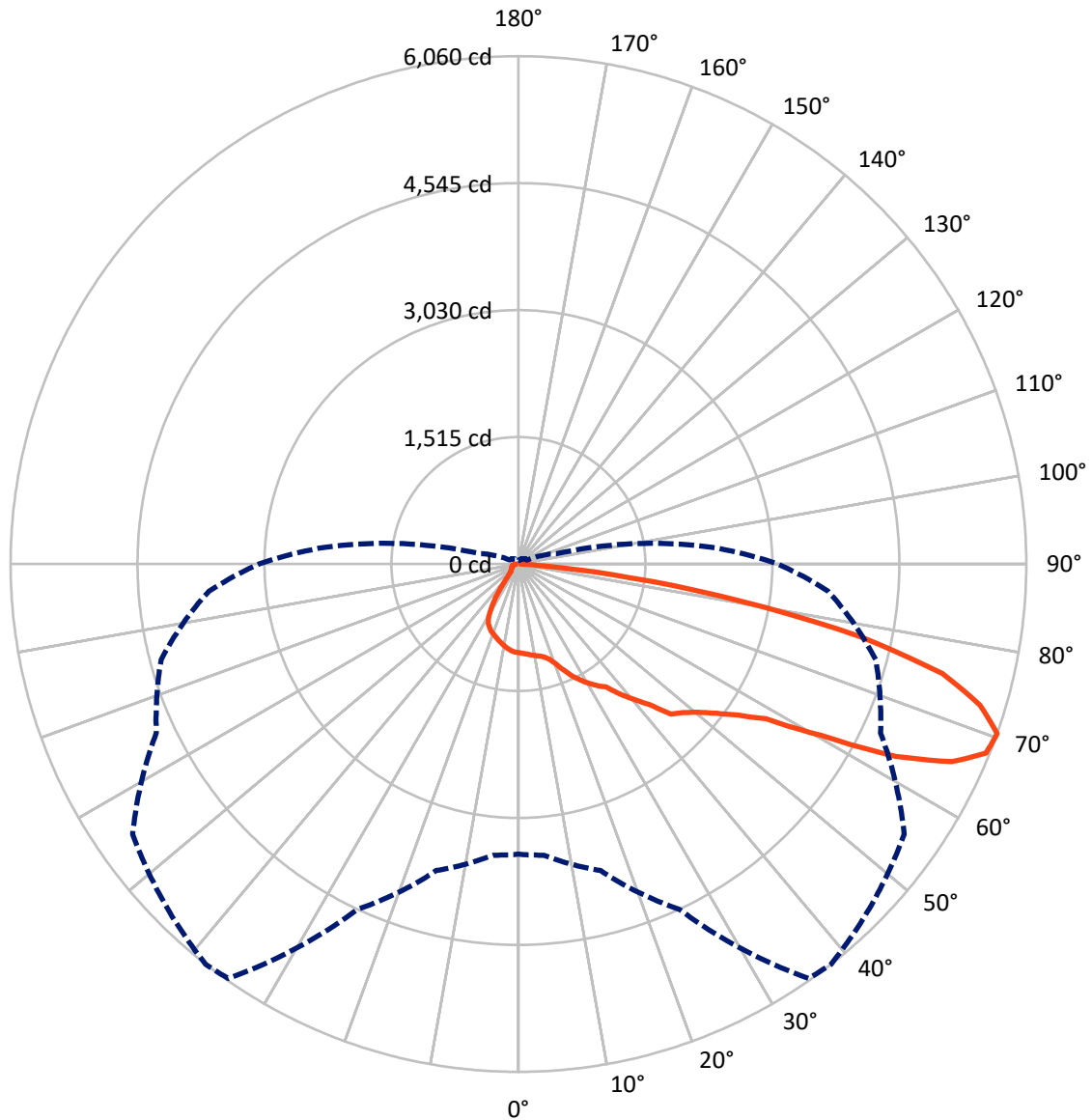
× Max cd
 - - - 1/2 Max cd



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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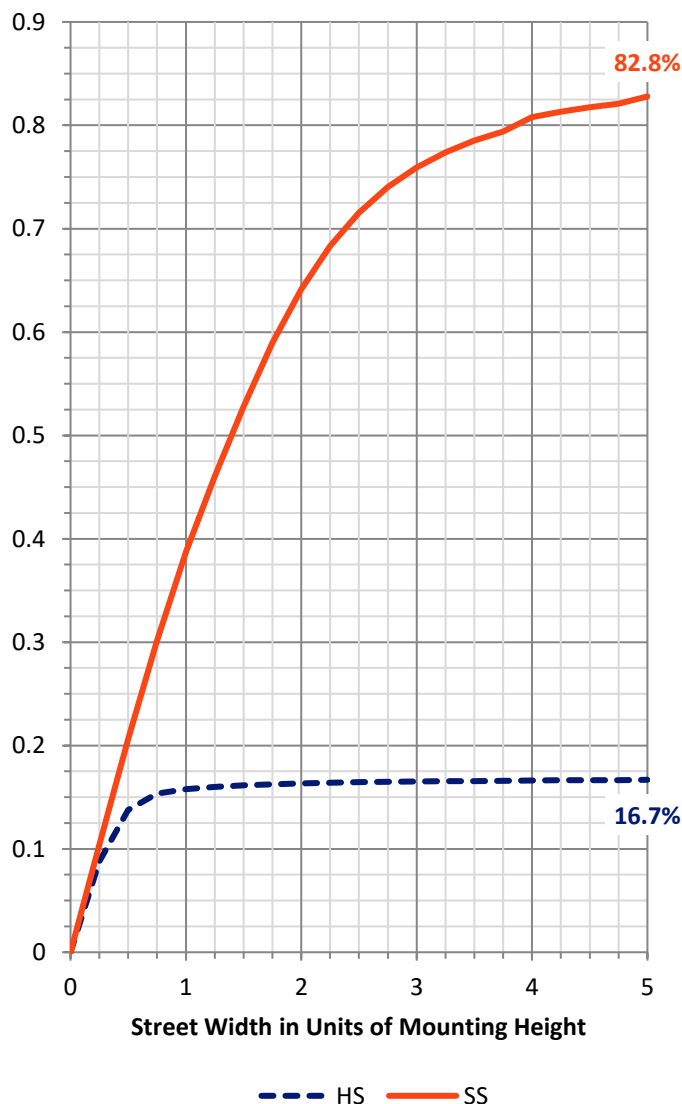
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.6	0.0	1670.6
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	8204.4	0.0	8204.4
	% Fixture	83.1	0.0	83.1
Total	Lumens	9875.0	0.0	9875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.0
10°-20°	306.7	3.1
20°-30°	564.6	5.7
30°-40°	883.9	9.0
40°-50°	1342.7	13.6
50°-60°	1930.7	19.6
60°-70°	2593.7	26.3
70°-80°	1921.7	19.5
80°-90°	229.8	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°	9875.0	100.0
0°-180°	9875.0	100.0

Coefficient of Utilization



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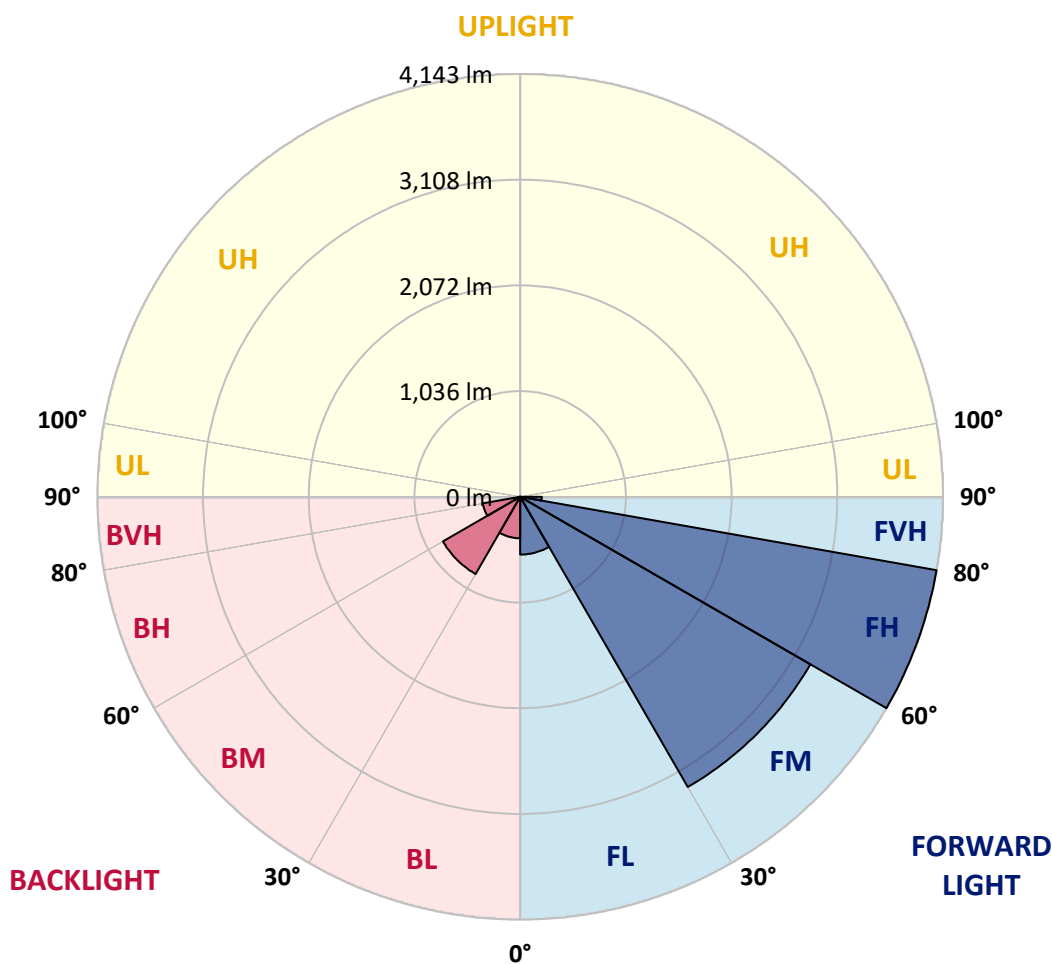
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	566.1	5.7			
FM	(30°-60°)	3283.4	33.2			
FH	(60°-80°)	4143.5	42.0			G2/5000
FVH	(80°-90°)	211.4	2.1			G2/225
BL	(0°-30°)	406.3	4.1	B1/500		
BM	(30°-60°)	873.9	8.8	B1/1000		
BH	(60°-80°)	372.0	3.8	B1/500		G1/500
BVH	(80°-90°)	18.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1074.1	1074.1	1074.1	1070.9	1070.9	1067.8	1067.8	1064.7	1064.7	1061.6	1058.5
5°	1089.7	1089.7	1086.6	1083.4	1080.3	1080.3	1080.3	1077.2	1070.9	1070.9	1064.7
7.5°	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1095.9	1092.8	1089.7	1086.6	1080.3
10°	1099.0	1099.0	1102.2	1102.2	1108.4	1111.5	1111.5	1114.7	1111.5	1105.3	1099.0
12.5°	1108.4	1111.5	1111.5	1114.7	1124.0	1127.1	1130.3	1139.6	1139.6	1133.4	1127.1
15°	1127.1	1127.1	1130.3	1136.5	1149.0	1152.1	1161.5	1170.9	1177.1	1170.9	1164.6
17.5°	1183.3	1183.3	1183.3	1183.3	1189.6	1192.7	1205.2	1220.8	1227.1	1227.1	1223.9
20°	1295.7	1295.7	1289.5	1277.0	1270.8	1270.8	1267.6	1273.9	1286.4	1295.7	1298.9
22.5°	1423.8	1420.6	1417.5	1398.8	1376.9	1370.7	1364.4	1358.2	1364.4	1380.0	1386.3
25°	1523.7	1526.8	1523.7	1498.7	1480.0	1476.8	1467.5	1470.6	1470.6	1473.7	1483.1
27.5°	1604.8	1611.1	1598.6	1586.1	1573.6	1564.3	1570.5	1579.9	1595.5	1589.2	1608.0
30°	1695.4	1692.3	1679.8	1664.2	1654.8	1651.7	1648.6	1682.9	1726.6	1745.4	1767.2
32.5°	1857.8	1854.6	1829.7	1751.6	1729.7	1729.7	1736.0	1779.7	1848.4	1907.7	1963.9
35°	2007.6	2007.6	1976.4	1923.3	1829.7	1801.6	1817.2	1870.2	1970.2	2088.8	2179.3
37.5°	2185.6	2188.7	2154.4	2073.2	1998.3	1970.2	1895.2	1970.2	2091.9	2319.9	2432.3
40°	2391.7	2385.4	2329.2	2241.8	2145.0	2123.1	2060.7	2076.3	2248.0	2591.5	2700.8
42.5°	2507.2	2500.9	2463.5	2394.8	2316.7	2291.7	2235.5	2219.9	2457.2	2891.2	2963.0
45°	2619.6	2625.8	2622.7	2588.4	2569.6	2554.0	2522.8	2525.9	2716.4	3187.8	3191.0
47.5°	2685.2	2697.6	2647.7	2644.6	2647.7	2647.7	2691.4	2778.8	2963.0	3440.7	3390.8
50°	2878.7	2866.2	2713.3	2719.5	2760.1	2778.8	2860.0	2988.0	3306.5	3659.3	3562.5
52.5°	3269.0	3181.6	2988.0	2894.3	2910.0	2956.8	3053.6	3237.8	3649.9	3874.7	3715.5
55°	3706.1	3668.7	3468.8	3228.4	3122.3	3181.6	3284.6	3478.2	3921.6	4059.0	3843.5
57.5°	4009.0	4024.6	4030.9	3837.3	3465.7	3484.5	3550.0	3718.6	4165.1	4246.3	3940.3
60°	4302.5	4324.4	4443.0	4414.9	4293.1	4155.7	3899.7	3955.9	4374.3	4380.6	4015.2
62.5°	4536.7	4549.2	4739.6	4827.0	5045.6	5055.0	4639.7	4283.8	4586.6	4477.3	4043.3
65°	4418.0	4452.4	4730.2	4995.6	5617.0	5685.7	5523.3	4702.1	4749.0	4521.1	4024.6
67.5°	4018.4	4074.6	4336.8	4945.7	5972.9	6019.7	5876.1	5460.9	4808.3	4505.4	3921.6
70°	3462.6	3487.6	3787.3	4546.0	6038.5	6060.3	5882.4	5620.1	4767.7	4414.9	3706.1
72.5°	2816.3	2844.4	3103.5	3909.1	5741.9	5760.6	5713.8	5495.2	4670.9	4246.3	3269.0
75°	2113.8	2157.5	2404.2	3053.6	5070.6	5229.8	5326.6	5232.9	4402.4	3687.4	2488.5
77.5°	1395.7	1398.8	1648.6	2307.4	4018.4	4177.6	4193.2	4115.2	3125.4	2313.6	1105.3
80°	599.5	655.7	964.8	1548.6	2669.5	2697.6	2728.9	2522.8	1601.7	715.0	121.8
82.5°	199.8	221.7	405.9	818.0	1314.5	1345.7	1289.5	1117.8	449.6	96.8	68.7
85°	84.3	93.7	124.9	224.8	318.5	290.4	271.6	221.7	62.4	56.2	43.7
87.5°	3.1	3.1	3.1	3.1	6.2	3.1	6.2	6.2	9.4	9.4	12.5
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°	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5	1058.5
2.5°	1058.5	1058.5	1058.5	1055.3	1055.3	1052.2	1052.2	1049.1	1049.1	1049.1	1049.1
5°	1064.7	1064.7	1058.5	1055.3	1049.1	1042.8	1036.6	1030.4	1024.1	1024.1	1024.1
7.5°	1077.2	1074.1	1064.7	1052.2	1039.7	1024.1	1014.7	1002.3	996.0	989.8	992.9
10°	1095.9	1089.7	1077.2	1058.5	1033.5	1008.5	986.6	967.9	958.5	949.2	946.0
12.5°	1120.9	1114.7	1095.9	1067.8	1030.4	992.9	958.5	930.4	911.7	902.3	899.2
15°	1158.4	1149.0	1124.0	1083.4	1030.4	974.1	927.3	886.7	855.5	836.8	836.8
17.5°	1217.7	1208.3	1174.0	1117.8	1042.8	964.8	893.0	824.3	783.7	761.8	758.7
20°	1295.7	1283.3	1242.7	1161.5	1064.7	961.7	855.5	768.1	699.4	661.9	658.8
22.5°	1386.3	1376.9	1314.5	1208.3	1086.6	955.4	827.4	711.9	615.1	546.4	530.8
25°	1492.4	1476.8	1383.2	1245.8	1092.8	939.8	786.8	652.6	518.3	434.0	418.4
27.5°	1617.3	1583.0	1445.6	1273.9	1089.7	908.6	740.0	568.3	393.4	331.0	321.6
30°	1751.6	1692.3	1508.1	1292.6	1070.9	858.6	658.8	424.6	284.1	246.7	237.3
32.5°	1904.6	1810.9	1564.3	1295.7	1030.4	789.9	521.4	290.4	202.9	181.1	178.0
35°	2088.8	1960.8	1623.6	1283.3	971.0	677.5	362.2	196.7	149.9	143.6	143.6
37.5°	2329.2	2151.2	1689.2	1245.8	880.5	524.5	240.4	134.3	131.1	134.3	134.3
40°	2582.1	2369.8	1770.3	1189.6	765.0	377.8	153.0	124.9	124.9	128.0	128.0
42.5°	2822.5	2579.0	1873.4	1114.7	633.8	243.5	124.9	118.6	115.5	118.6	121.8
45°	3025.5	2775.7	1973.3	1033.5	484.0	156.1	121.8	112.4	106.2	109.3	109.3
47.5°	3206.6	2925.6	2029.5	936.7	340.3	121.8	121.8	103.0	96.8	96.8	99.9
50°	3359.6	3044.2	2060.7	824.3	215.4	118.6	109.3	96.8	90.5	90.5	87.4
52.5°	3487.6	3131.6	2057.6	699.4	140.5	115.5	103.0	90.5	81.2	84.3	84.3
55°	3584.4	3200.3	2010.7	537.0	118.6	109.3	99.9	84.3	78.1	84.3	84.3
57.5°	3659.3	3231.6	1923.3	374.7	115.5	99.9	93.7	78.1	71.8	74.9	74.9
60°	3696.8	3215.9	1785.9	234.2	112.4	96.8	87.4	71.8	65.6	62.4	65.6
62.5°	3684.3	3159.7	1589.2	156.1	106.2	90.5	81.2	68.7	59.3	53.1	53.1
65°	3609.3	3034.9	1355.1	131.1	103.0	90.5	78.1	65.6	53.1	50.0	50.0
67.5°	3440.7	2775.7	1005.4	121.8	103.0	87.4	74.9	62.4	53.1	46.8	46.8
70°	3094.2	2310.5	484.0	112.4	103.0	90.5	74.9	59.3	50.0	43.7	43.7
72.5°	2504.1	1632.9	124.9	96.8	99.9	90.5	78.1	59.3	46.8	40.6	40.6
75°	1632.9	783.7	106.2	78.1	90.5	84.3	74.9	59.3	46.8	37.5	37.5
77.5°	530.8	109.3	96.8	68.7	81.2	81.2	74.9	59.3	46.8	34.3	34.3
80°	84.3	78.1	84.3	53.1	59.3	68.7	59.3	56.2	43.7	31.2	31.2
82.5°	59.3	71.8	62.4	43.7	53.1	56.2	46.8	37.5	31.2	28.1	28.1
85°	43.7	46.8	37.5	34.3	40.6	46.8	37.5	28.1	25.0	25.0	25.0
87.5°	15.6	18.7	18.7	25.0	31.2	34.3	21.9	15.6	18.7	18.7	18.7
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)