

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: P507732

Luminaire Tested: **VERD-S-CA1-80-730-U-T4-HSS**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507732
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-CA1-80-730-U-T4-HSS
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1500mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9522 lumens
Efficiency: N/A
Efficacy: 114.6 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

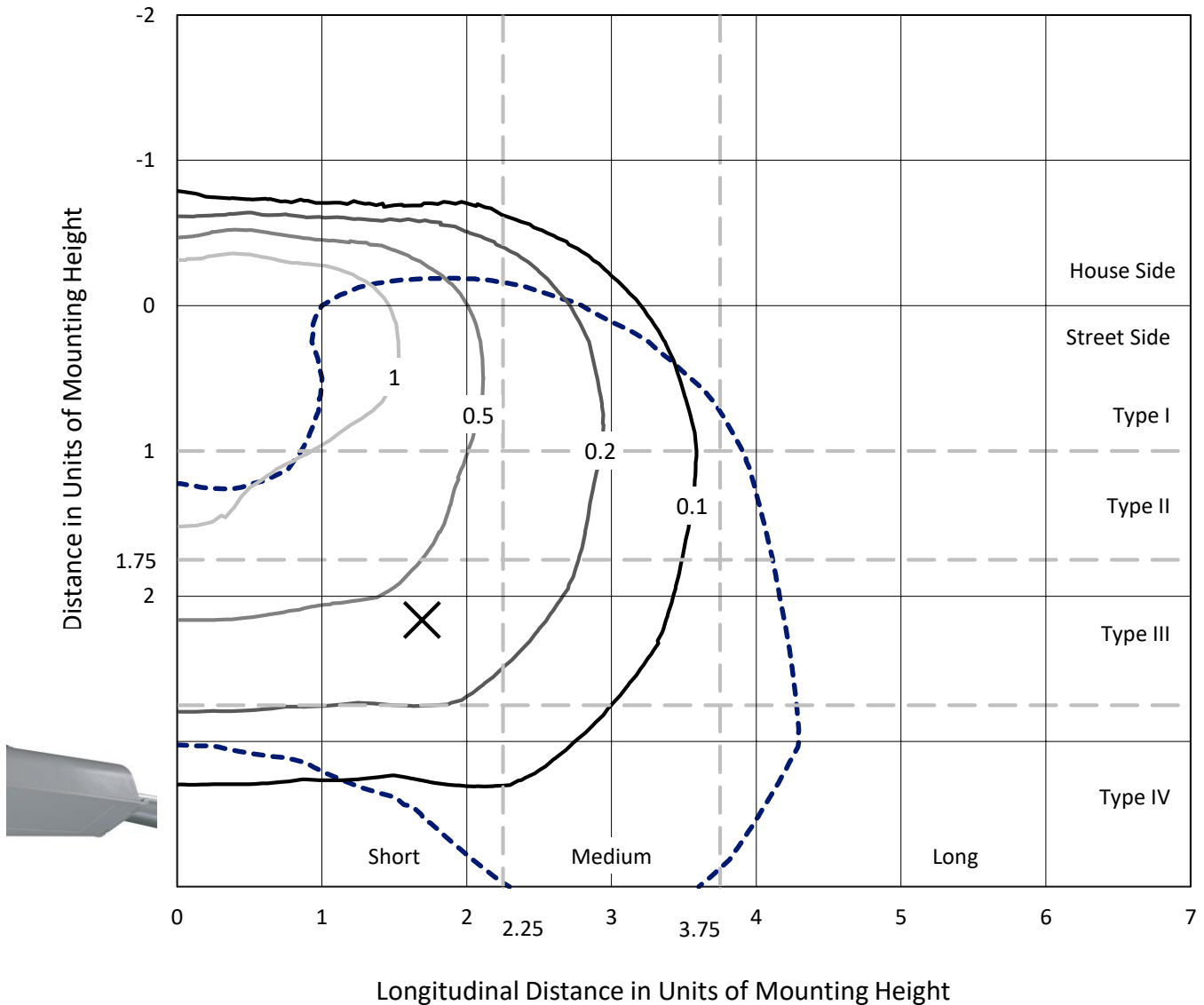
Input Watts (W): 83.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

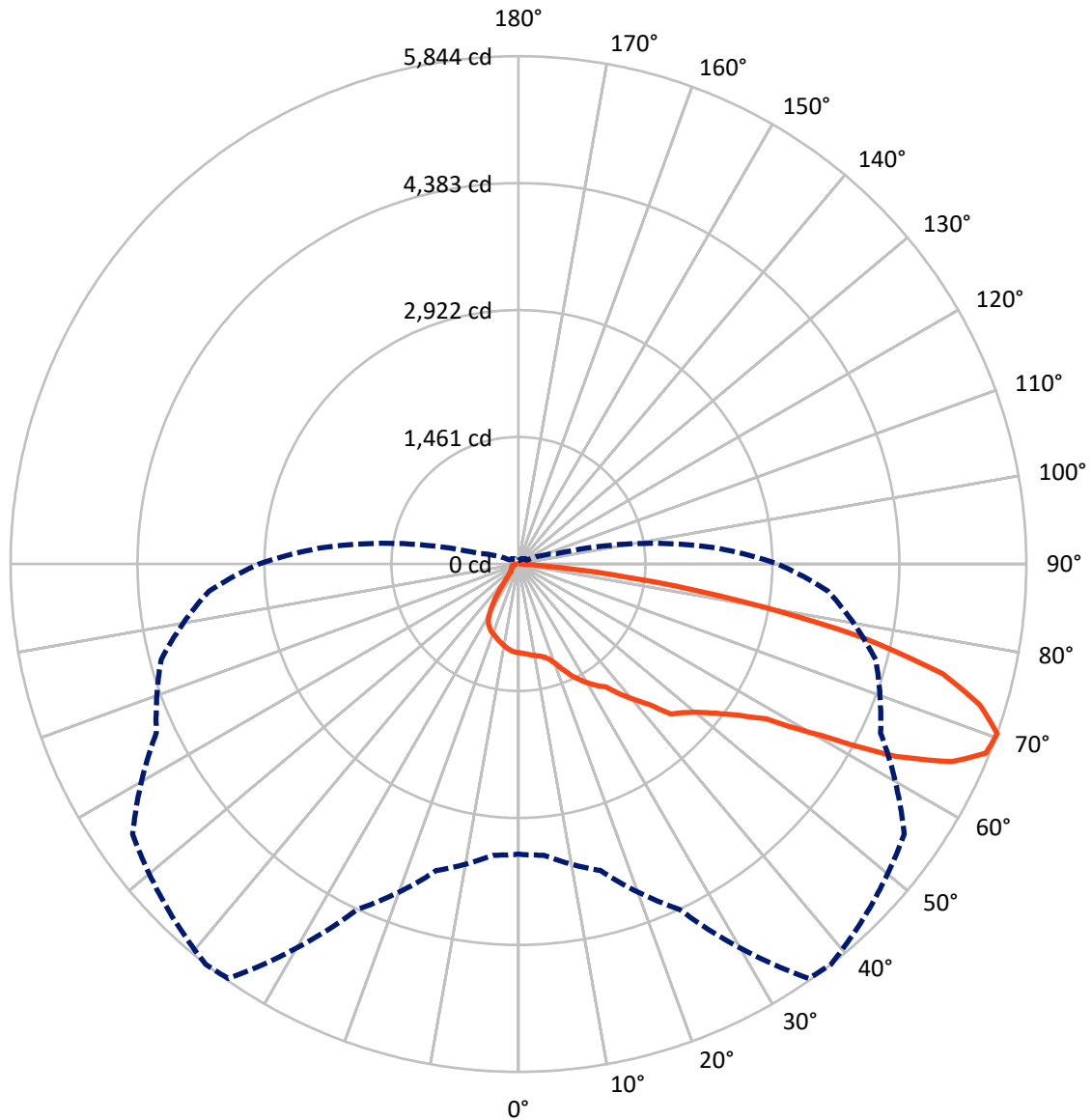
✕ Max cd
 - - - 1/2 Max cd



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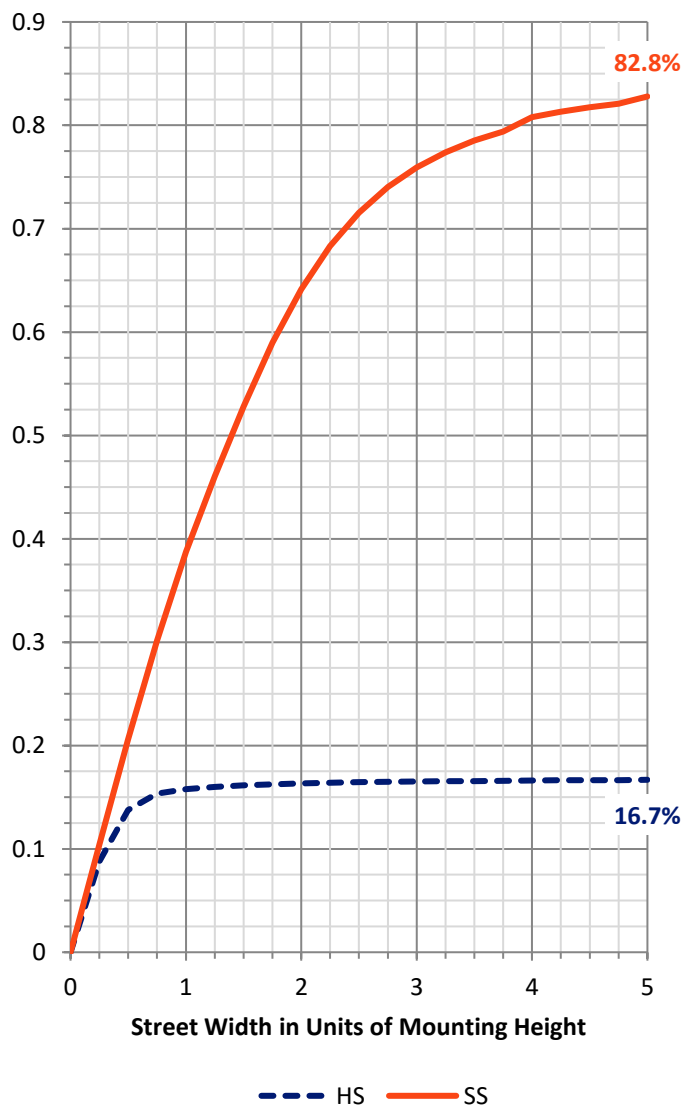
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1610.9	0.0	1610.9
	% Fixture	16.9	0.0	16.9
Street Side	Lumens	7911.1	0.0	7911.1
	% Fixture	83.1	0.0	83.1
Total	Lumens	9522.0	0.0	9522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	1.0
10°-20°	295.7	3.1
20°-30°	544.4	5.7
30°-40°	852.3	9.0
40°-50°	1294.7	13.6
50°-60°	1861.6	19.6
60°-70°	2501.0	26.3
70°-80°	1853.0	19.5
80°-90°	221.6	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°	9522.0	100.0
0°-180°	9522.0	100.0

Coefficient of Utilization



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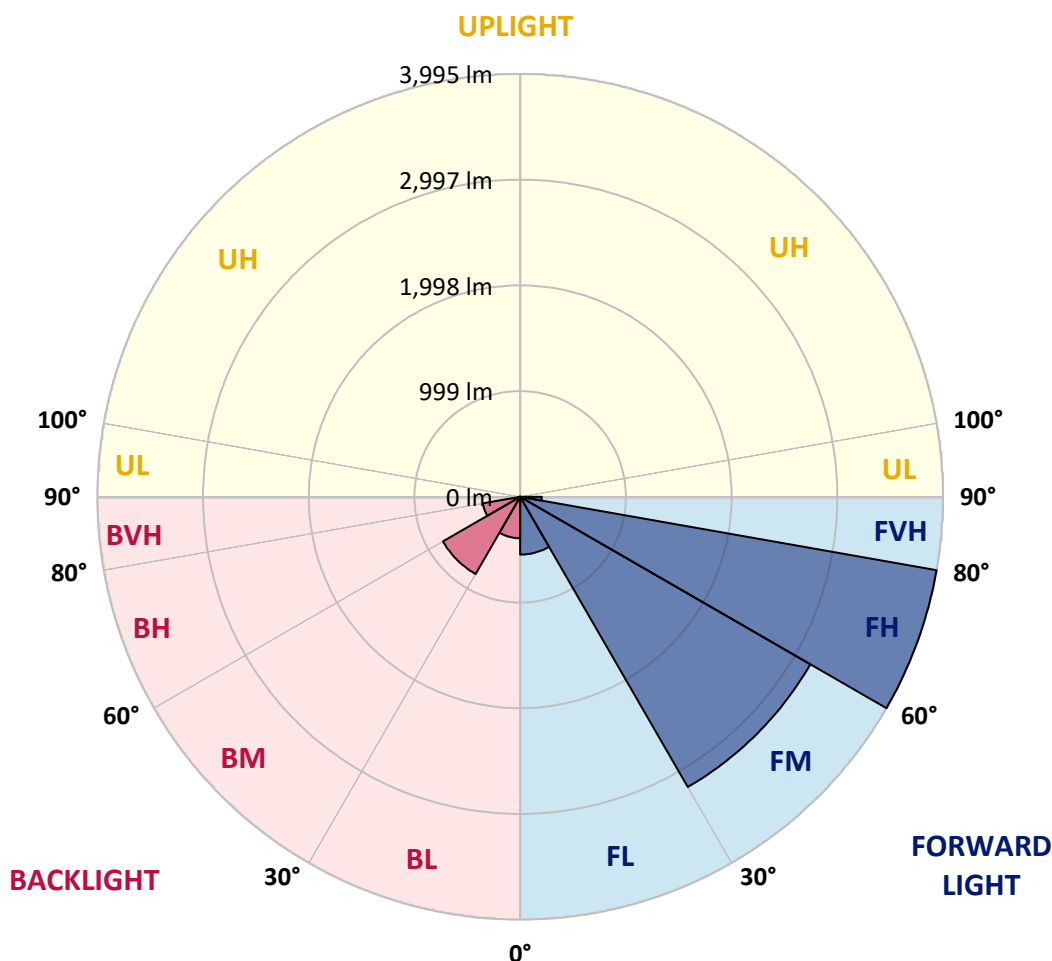
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	545.9	5.7			
FM	(30°-60°)	3166.0	33.2			
FH	(60°-80°)	3995.4	42.0			G2/5000
FVH	(80°-90°)	203.8	2.1			G2/225
BL	(0°-30°)	391.8	4.1	B1/500		
BM	(30°-60°)	842.7	8.8	B1/1000		
BH	(60°-80°)	358.7	3.8	B1/500		G1/500
BVH	(80°-90°)	17.8	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°	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6
2.5°	1035.7	1035.7	1035.7	1032.7	1032.7	1029.6	1029.6	1026.6	1026.6	1023.6	1020.6
5°	1050.7	1050.7	1047.7	1044.7	1041.7	1041.7	1041.7	1038.7	1032.7	1032.7	1026.6
7.5°	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1056.7	1053.7	1050.7	1047.7	1041.7
10°	1059.8	1059.8	1062.8	1062.8	1068.8	1071.8	1071.8	1074.8	1071.8	1065.8	1059.8
12.5°	1068.8	1071.8	1071.8	1074.8	1083.8	1086.8	1089.9	1098.9	1098.9	1092.9	1086.8
15°	1086.8	1086.8	1089.9	1095.9	1107.9	1110.9	1120.0	1129.0	1135.0	1129.0	1123.0
17.5°	1141.0	1141.0	1141.0	1141.0	1147.1	1150.1	1162.1	1177.2	1183.2	1183.2	1180.2
20°	1249.4	1249.4	1243.4	1231.4	1225.3	1225.3	1222.3	1228.4	1240.4	1249.4	1252.4
22.5°	1372.9	1369.9	1366.8	1348.8	1327.7	1321.7	1315.7	1309.6	1315.7	1330.7	1336.7
25°	1469.2	1472.2	1469.2	1445.1	1427.1	1424.0	1415.0	1418.0	1418.0	1421.0	1430.1
27.5°	1547.5	1553.5	1541.5	1529.4	1517.4	1508.3	1514.4	1523.4	1538.4	1532.4	1550.5
30°	1634.8	1631.8	1619.7	1604.7	1595.7	1592.6	1589.6	1622.7	1664.9	1683.0	1704.0
32.5°	1791.3	1788.3	1764.2	1689.0	1667.9	1667.9	1673.9	1716.1	1782.3	1839.5	1893.7
35°	1935.9	1935.9	1905.7	1854.6	1764.2	1737.2	1752.2	1803.4	1899.7	2014.1	2101.4
37.5°	2107.5	2110.5	2077.4	1999.1	1926.8	1899.7	1827.5	1899.7	2017.1	2236.9	2345.3
40°	2306.2	2300.1	2246.0	2161.7	2068.3	2047.3	1987.0	2002.1	2167.7	2498.9	2604.2
42.5°	2417.6	2411.5	2375.4	2309.2	2233.9	2209.8	2155.6	2140.6	2369.4	2787.9	2857.1
45°	2525.9	2532.0	2529.0	2495.8	2477.8	2462.7	2432.6	2435.6	2619.3	3073.9	3076.9
47.5°	2589.2	2601.2	2553.0	2550.0	2553.0	2553.0	2595.2	2679.5	2857.1	3317.8	3269.6
50°	2775.8	2763.8	2616.3	2622.3	2661.4	2679.5	2757.8	2881.2	3188.3	3528.5	3435.2
52.5°	3152.2	3067.9	2881.2	2790.9	2805.9	2851.1	2944.4	3122.1	3519.5	3736.2	3582.7
55°	3573.7	3537.5	3344.8	3113.0	3010.7	3067.9	3167.2	3353.9	3781.4	3913.9	3706.1
57.5°	3865.7	3880.7	3886.8	3700.1	3341.8	3359.9	3423.1	3585.7	4016.2	4094.5	3799.5
60°	4148.7	4169.8	4284.2	4257.1	4139.7	4007.2	3760.3	3814.5	4217.9	4224.0	3871.7
62.5°	4374.5	4386.5	4570.2	4654.5	4865.2	4874.3	4473.8	4130.6	4422.7	4317.3	3898.8
65°	4260.1	4293.2	4561.2	4817.1	5416.2	5482.4	5325.9	4534.1	4579.2	4359.4	3880.7
67.5°	3874.7	3928.9	4181.8	4768.9	5759.4	5804.6	5666.1	5265.7	4636.4	4344.4	3781.4
70°	3338.8	3362.9	3651.9	4383.5	5822.6	5843.7	5672.1	5419.2	4597.3	4257.1	3573.7
72.5°	2715.6	2742.7	2992.6	3769.4	5536.6	5554.7	5509.5	5298.8	4504.0	4094.5	3152.2
75°	2038.2	2080.4	2318.2	2944.4	4889.3	5042.9	5136.2	5045.9	4245.0	3555.6	2399.5
77.5°	1345.8	1348.8	1589.6	2224.9	3874.7	4028.3	4043.3	3968.1	3013.7	2230.9	1065.8
80°	578.0	632.2	930.3	1493.3	2574.1	2601.2	2631.3	2432.6	1544.5	689.4	117.4
82.5°	192.7	213.8	391.4	788.8	1267.5	1297.6	1243.4	1077.8	433.5	93.3	66.2
85°	81.3	90.3	120.4	216.8	307.1	280.0	261.9	213.8	60.2	54.2	42.1
87.5°	3.0	3.0	3.0	3.0	6.0	3.0	6.0	6.0	9.0	9.0	12.0
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°	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6	1020.6
2.5°	1020.6	1020.6	1020.6	1017.6	1017.6	1014.6	1014.6	1011.6	1011.6	1011.6	1011.6
5°	1026.6	1026.6	1020.6	1017.6	1011.6	1005.6	999.5	993.5	987.5	987.5	987.5
7.5°	1038.7	1035.7	1026.6	1014.6	1002.6	987.5	978.5	966.4	960.4	954.4	957.4
10°	1056.7	1050.7	1038.7	1020.6	996.5	972.4	951.4	933.3	924.3	915.2	912.2
12.5°	1080.8	1074.8	1056.7	1029.6	993.5	957.4	924.3	897.2	879.1	870.1	867.1
15°	1117.0	1107.9	1083.8	1044.7	993.5	939.3	894.2	855.0	824.9	806.9	806.9
17.5°	1174.2	1165.1	1132.0	1077.8	1005.6	930.3	861.0	794.8	755.7	734.6	731.6
20°	1249.4	1237.4	1198.2	1120.0	1026.6	927.3	824.9	740.6	674.4	638.3	635.2
22.5°	1336.7	1327.7	1267.5	1165.1	1047.7	921.3	797.8	686.4	593.1	526.9	511.8
25°	1439.1	1424.0	1333.7	1201.3	1053.7	906.2	758.7	629.2	499.8	418.5	403.4
27.5°	1559.5	1526.4	1393.9	1228.4	1050.7	876.1	713.5	547.9	379.3	319.1	310.1
30°	1689.0	1631.8	1454.2	1246.4	1032.7	827.9	635.2	409.5	274.0	237.8	228.8
32.5°	1836.5	1746.2	1508.3	1249.4	993.5	761.7	502.8	280.0	195.7	174.6	171.6
35°	2014.1	1890.7	1565.5	1237.4	936.3	653.3	349.2	189.7	144.5	138.5	138.5
37.5°	2246.0	2074.3	1628.8	1201.3	849.0	505.8	231.8	129.5	126.4	129.5	129.5
40°	2489.8	2285.1	1707.0	1147.1	737.6	364.3	147.5	120.4	120.4	123.4	123.4
42.5°	2721.6	2486.8	1806.4	1074.8	611.2	234.8	120.4	114.4	111.4	114.4	117.4
45°	2917.3	2676.5	1902.7	996.5	466.7	150.5	117.4	108.4	102.4	105.4	105.4
47.5°	3092.0	2821.0	1956.9	903.2	328.2	117.4	117.4	99.4	93.3	93.3	96.3
50°	3239.5	2935.4	1987.0	794.8	207.7	114.4	105.4	93.3	87.3	87.3	84.3
52.5°	3362.9	3019.7	1984.0	674.4	135.5	111.4	99.4	87.3	78.3	81.3	81.3
55°	3456.2	3085.9	1938.9	517.8	114.4	105.4	96.3	81.3	75.3	81.3	81.3
57.5°	3528.5	3116.0	1854.6	361.3	111.4	96.3	90.3	75.3	69.2	72.3	72.3
60°	3564.6	3101.0	1722.1	225.8	108.4	93.3	84.3	69.2	63.2	60.2	63.2
62.5°	3552.6	3046.8	1532.4	150.5	102.4	87.3	78.3	66.2	57.2	51.2	51.2
65°	3480.3	2926.4	1306.6	126.4	99.4	87.3	75.3	63.2	51.2	48.2	48.2
67.5°	3317.8	2676.5	969.4	117.4	99.4	84.3	72.3	60.2	51.2	45.2	45.2
70°	2983.6	2227.9	466.7	108.4	99.4	87.3	72.3	57.2	48.2	42.1	42.1
72.5°	2414.6	1574.6	120.4	93.3	96.3	87.3	75.3	57.2	45.2	39.1	39.1
75°	1574.6	755.7	102.4	75.3	87.3	81.3	72.3	57.2	45.2	36.1	36.1
77.5°	511.8	105.4	93.3	66.2	78.3	78.3	72.3	57.2	45.2	33.1	33.1
80°	81.3	75.3	81.3	51.2	57.2	66.2	57.2	54.2	42.1	30.1	30.1
82.5°	57.2	69.2	60.2	42.1	51.2	54.2	45.2	36.1	30.1	27.1	27.1
85°	42.1	45.2	36.1	33.1	39.1	45.2	36.1	27.1	24.1	24.1	24.1
87.5°	15.1	18.1	18.1	24.1	30.1	33.1	21.1	15.1	18.1	18.1	18.1
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)