

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: P233954

Luminaire Tested: **VERD-G-C029-D-U-T4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-34)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-C029-D-U-T4-HSS
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1040mA LEDS AND TYPE IV OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13705 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
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

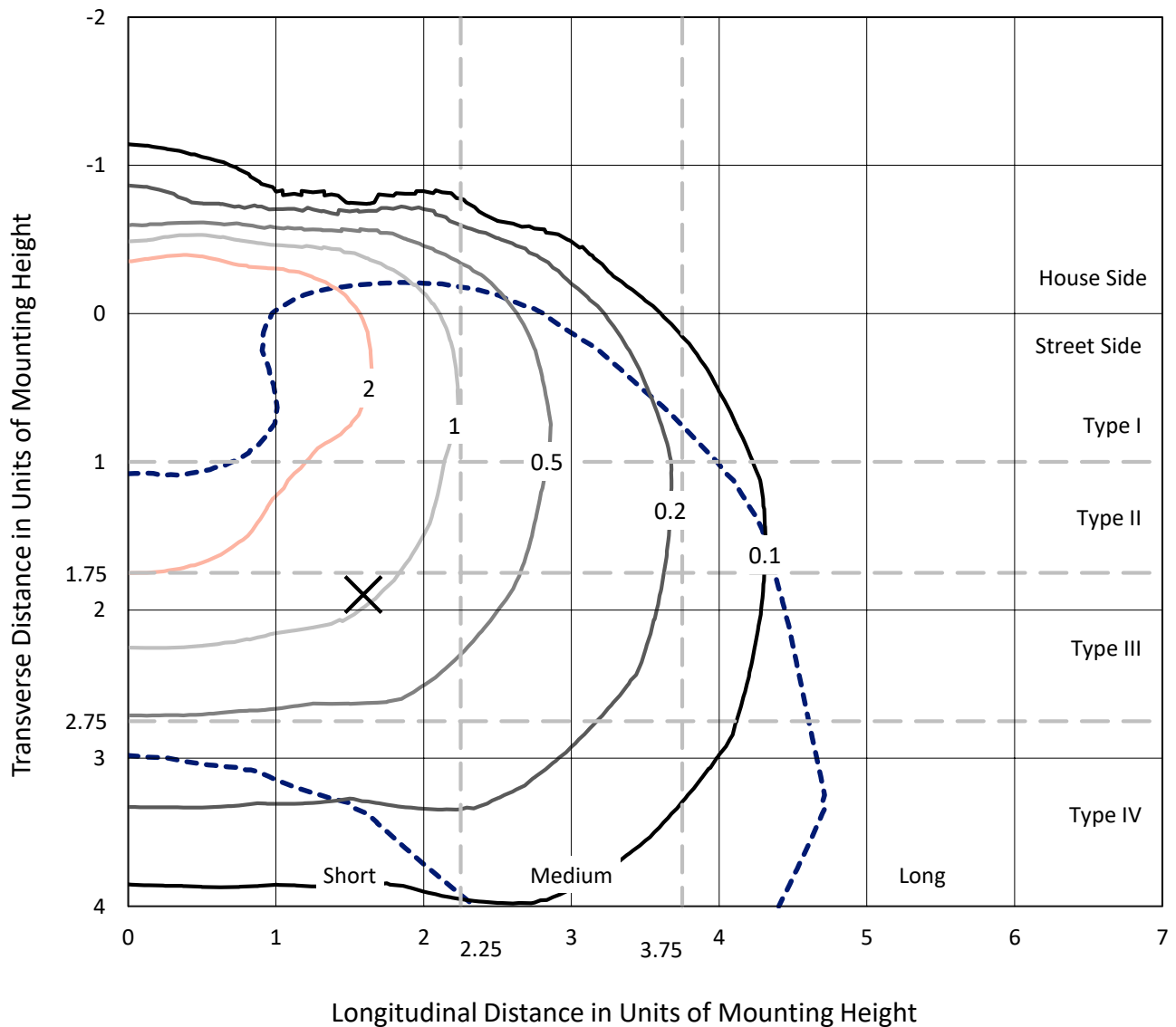


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

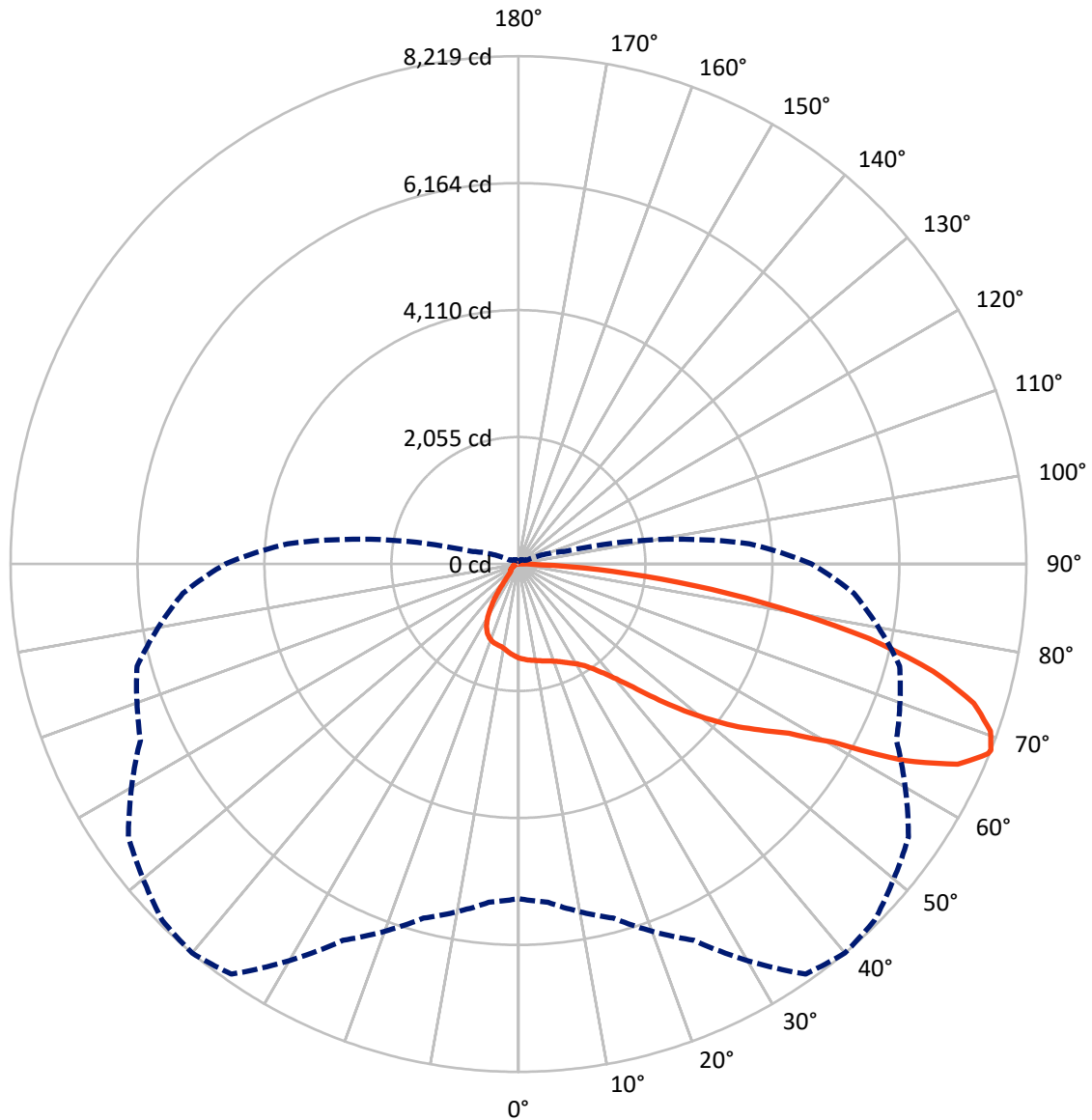


Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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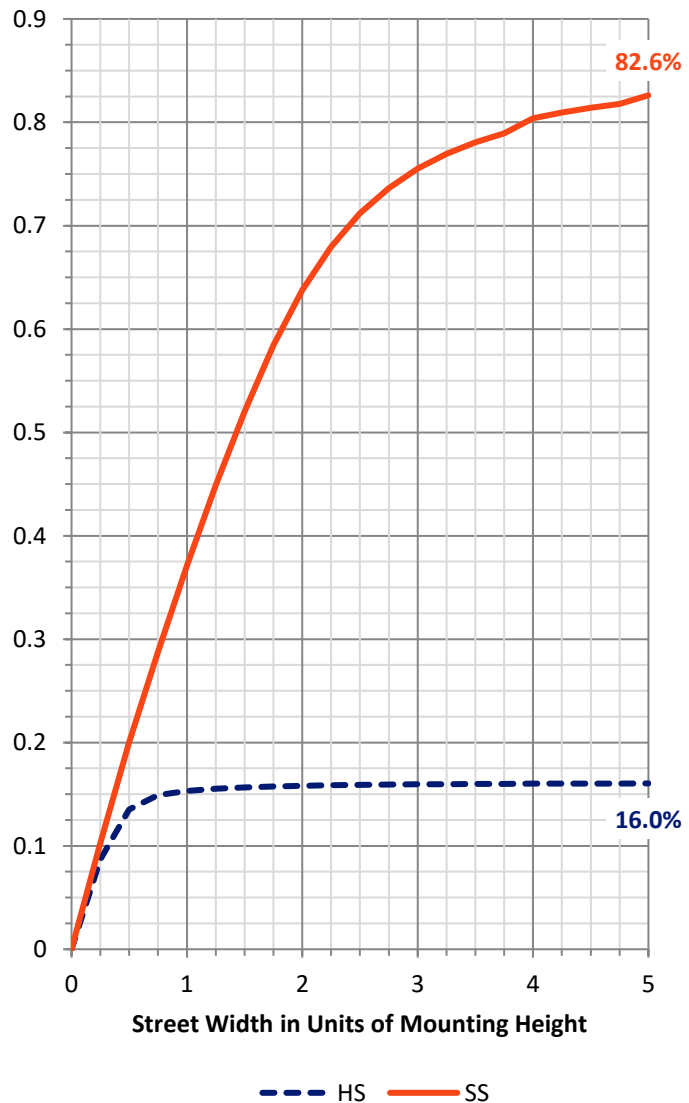
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2223.2	0.0	2223.2
	% Fixture	16.2	0.0	16.2
Street Side	Lumens	11481.8	0.0	11481.8
	% Fixture	83.8	0.0	83.8
Total	Lumens	13705.0	0.0	13705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.5	1.1
10°-20°	432.7	3.2
20°-30°	726.3	5.3
30°-40°	1075.6	7.8
40°-50°	1819.6	13.3
50°-60°	2777.1	20.3
60°-70°	3636.3	26.5
70°-80°	2614.3	19.1
80°-90°	478.6	3.5
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°	13705.0	100.0
0°-180°	13705.0	100.0

Coefficient of Utilization



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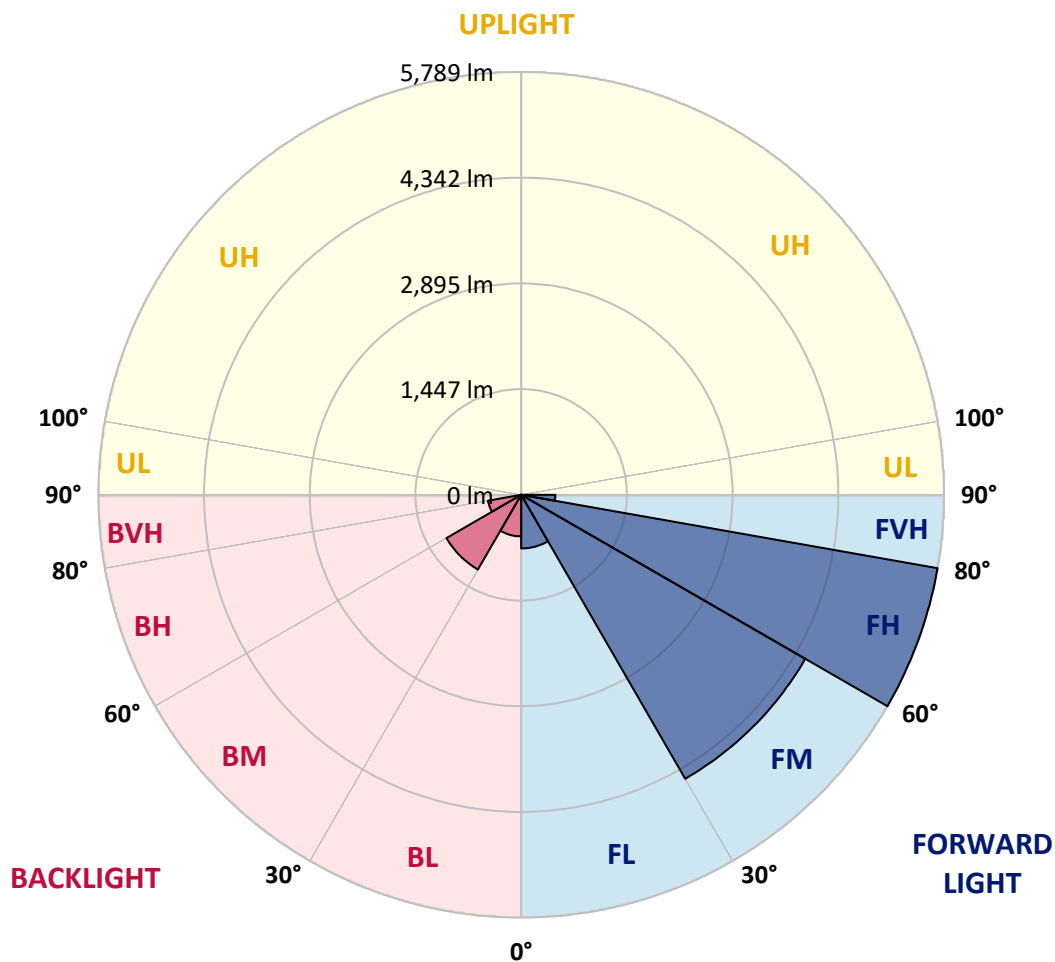
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	734.7	5.4			
FM	(30°-60°)	4490.7	32.8			
FH	(60°-80°)	5789.2	42.2			G3/7500
FVH	(80°-90°)	467.2	3.4			G3/500
BL	(0°-30°)	568.8	4.2	B2/1000		
BM	(30°-60°)	1181.7	8.6	B2/2500		
BH	(60°-80°)	461.4	3.4	B1/500		G1/500
BVH	(80°-90°)	11.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9
2.5°	1571.1	1574.5	1569.9	1558.5	1545.8	1539.0	1537.8	1536.7	1530.9	1522.9	1511.4
5°	1587.2	1588.3	1583.7	1574.5	1563.1	1560.8	1557.3	1558.5	1555.0	1547.0	1534.4
7.5°	1594.0	1596.3	1590.6	1581.4	1572.2	1572.2	1571.1	1574.5	1572.2	1568.8	1553.9
10°	1591.7	1595.2	1591.7	1588.3	1584.9	1588.3	1586.0	1594.0	1595.2	1595.2	1578.0
12.5°	1588.3	1592.9	1594.0	1597.5	1603.2	1606.7	1611.3	1628.5	1636.5	1642.2	1628.5
15°	1591.7	1594.0	1603.2	1609.0	1620.4	1628.5	1638.8	1667.5	1681.3	1697.3	1690.4
17.5°	1606.7	1612.4	1626.2	1631.9	1643.4	1649.1	1661.8	1697.3	1724.9	1753.6	1758.2
20°	1638.8	1642.2	1665.2	1667.5	1673.2	1679.0	1692.7	1731.8	1773.1	1814.4	1825.9
22.5°	1674.4	1682.4	1704.2	1700.8	1712.2	1714.5	1727.2	1769.6	1827.0	1877.5	1902.8
25°	1711.1	1718.0	1739.8	1742.1	1755.9	1765.0	1780.0	1821.3	1894.7	1959.0	2003.7
27.5°	1742.1	1755.9	1776.5	1778.8	1805.2	1816.7	1838.5	1885.5	1973.9	2053.1	2126.5
30°	1799.5	1802.9	1822.4	1829.3	1864.9	1875.2	1900.5	1960.1	2068.0	2166.7	2281.5
32.5°	1870.6	1869.5	1887.8	1899.3	1942.9	1961.3	1993.4	2062.3	2181.6	2304.4	2467.4
35°	2001.4	1990.0	2001.4	2012.9	2063.4	2082.9	2117.4	2220.6	2360.7	2569.5	2770.4
37.5°	2302.1	2284.9	2260.8	2203.4	2216.1	2241.3	2291.8	2431.8	2638.4	3026.3	3220.2
40°	2823.1	2785.3	2684.3	2532.8	2443.3	2445.6	2492.6	2676.2	2979.2	3549.6	3695.3
42.5°	3294.8	3268.4	3146.8	2939.1	2732.5	2721.0	2737.1	2951.7	3351.0	4035.0	4110.8
45°	3738.9	3751.6	3574.8	3411.9	3165.1	3089.4	3069.9	3245.5	3763.0	4467.7	4474.6
47.5°	4149.8	4170.4	3957.0	3803.2	3559.9	3494.5	3433.7	3554.2	4152.1	4836.1	4779.8
50°	4591.6	4607.7	4311.6	4185.4	3981.1	3920.3	3874.4	3927.2	4550.3	5178.1	5051.8
52.5°	5202.2	5112.6	4740.8	4531.9	4350.6	4346.0	4310.5	4343.7	5003.6	5485.6	5258.4
55°	5922.9	5688.7	5294.0	4960.0	4727.0	4739.7	4697.2	4752.3	5452.3	5749.6	5450.0
57.5°	6177.6	6171.9	5988.3	5668.1	5195.3	5166.6	5093.1	5155.1	5840.2	5996.3	5585.5
60°	6531.1	6562.1	6582.7	6389.9	6116.8	5856.3	5610.7	5605.0	6201.7	6221.2	5652.0
62.5°	6759.5	6788.2	6948.8	6923.6	7092.3	7006.2	6726.2	6105.3	6478.3	6367.0	5677.3
65°	6332.6	6403.7	6808.8	7117.5	7692.5	7813.0	7772.8	6874.2	6666.5	6409.5	5630.2
67.5°	5560.2	5653.2	6097.3	6819.2	8064.3	8198.6	8125.1	7648.9	6748.0	6391.1	5500.5
68°	5415.6	5495.9	5932.0	6719.3	8102.2	8219.2	8152.7	7706.3	6751.4	6388.8	5451.2
70°	4720.2	4785.6	5211.3	6207.5	7996.6	8105.6	8096.5	7760.2	6721.6	6317.6	5119.5
72.5°	3662.1	3727.5	4105.0	5148.2	7508.9	7708.6	7700.5	7544.4	6666.5	5955.0	4292.1
75°	2647.6	2719.9	3064.1	3955.8	6497.8	6937.4	7025.7	7174.9	6093.9	5011.7	3053.8
77.5°	1911.9	1964.7	2262.0	2988.4	5307.7	5810.4	5989.4	6139.8	4987.6	3652.9	1452.9
80°	1275.0	1312.9	1599.8	2221.8	3998.3	4294.4	4487.2	4235.9	2838.1	1320.9	157.2
82.5°	785.0	809.1	1035.2	1558.5	2765.8	2858.7	2859.9	2259.7	914.7	126.2	84.9
85°	421.2	429.2	562.3	850.4	1460.9	1530.9	1503.4	949.1	184.8	67.7	45.9
87.5°	67.7	73.4	176.7	319.0	451.0	347.7	222.6	70.0	18.4	10.3	6.9
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°	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9	1522.9
2.5°	1517.2	1513.7	1504.5	1499.9	1488.5	1491.9	1491.9	1482.7	1487.3	1505.7	1503.4
5°	1530.9	1532.1	1510.3	1498.8	1473.5	1466.7	1456.3	1442.6	1441.4	1454.0	1455.2
7.5°	1542.4	1548.1	1517.2	1494.2	1459.8	1435.7	1415.0	1390.9	1385.2	1393.2	1393.2
10°	1560.8	1566.5	1527.5	1495.3	1444.9	1405.8	1370.3	1339.3	1326.6	1326.6	1327.8
12.5°	1609.0	1605.5	1560.8	1511.4	1451.7	1389.8	1333.5	1292.2	1262.4	1261.2	1256.6
15°	1675.5	1662.9	1619.3	1544.7	1467.8	1388.6	1310.6	1246.3	1194.7	1180.9	1175.2
17.5°	1746.7	1730.6	1677.8	1587.2	1493.1	1387.5	1284.2	1194.7	1108.6	1075.3	1065.0
20°	1823.6	1804.1	1750.1	1636.5	1518.3	1379.4	1245.2	1120.1	1003.0	939.9	923.8
22.5°	1908.5	1892.4	1827.0	1687.0	1535.5	1362.2	1184.3	1026.0	876.8	786.1	779.2
25°	2018.7	2003.7	1907.3	1731.8	1536.7	1330.1	1104.0	905.5	718.4	611.7	589.9
27.5°	2150.6	2124.2	1971.6	1759.3	1518.3	1273.9	999.6	744.8	533.6	444.1	441.8
30°	2294.1	2245.9	2023.3	1766.2	1477.0	1184.3	856.1	547.4	378.7	317.9	317.9
32.5°	2462.8	2374.4	2076.0	1754.7	1409.3	1060.4	655.3	379.9	260.5	231.8	231.8
35°	2709.5	2573.0	2143.8	1726.0	1314.0	889.4	465.9	251.3	205.4	202.0	202.0
37.5°	3099.7	2872.5	2235.6	1677.8	1183.2	678.2	303.0	193.9	196.2	196.2	195.1
40°	3515.2	3219.1	2361.8	1600.9	1019.1	468.2	198.5	183.6	187.1	189.4	188.2
42.5°	3890.4	3548.4	2499.5	1497.6	825.1	294.9	181.3	176.7	174.4	176.7	177.9
45°	4215.2	3834.2	2638.4	1363.4	609.4	192.8	176.7	166.4	159.5	160.7	161.8
47.5°	4492.9	4059.1	2732.5	1222.2	404.0	171.0	171.0	152.6	145.7	145.7	145.7
50°	4736.2	4258.8	2789.9	1053.5	241.0	168.7	160.7	140.0	133.1	132.0	133.1
52.5°	4913.0	4398.8	2783.0	848.1	161.8	163.0	146.9	128.5	120.5	122.8	123.9
55°	5053.0	4487.2	2722.2	620.9	151.5	152.6	136.6	115.9	110.2	111.3	111.3
57.5°	5141.3	4509.0	2598.2	404.0	148.0	136.6	122.8	103.3	96.4	96.4	96.4
60°	5170.0	4497.5	2429.5	258.2	146.9	122.8	111.3	93.0	86.1	86.1	86.1
62.5°	5145.9	4431.0	2143.8	185.9	136.6	114.8	101.0	82.6	75.7	73.4	73.4
65°	5059.9	4253.1	1652.6	153.8	122.8	105.6	91.8	74.6	65.4	62.0	60.8
67.5°	4808.5	3867.5	961.7	144.6	111.3	96.4	84.9	67.7	57.4	51.6	50.5
68°	4743.1	3752.7	790.7	143.5	111.3	95.3	83.8	65.4	55.1	49.3	48.2
70°	4274.9	3027.4	227.2	136.6	109.0	91.8	76.9	59.7	49.3	42.5	41.3
72.5°	3219.1	1774.2	142.3	121.6	107.9	81.5	74.6	59.7	43.6	36.7	34.4
75°	1797.2	404.0	120.5	90.7	101.0	80.3	73.4	53.9	39.0	29.8	28.7
77.5°	369.5	117.1	103.3	63.1	76.9	70.0	62.0	45.9	35.6	23.0	21.8
80°	104.4	87.2	91.8	45.9	43.6	49.3	45.9	40.2	26.4	17.2	17.2
82.5°	67.7	64.3	82.6	31.0	23.0	23.0	29.8	24.1	23.0	13.8	13.8
85°	41.3	53.9	40.2	13.8	11.5	9.2	10.3	10.3	13.8	9.2	9.2
87.5°	5.7	5.7	5.7	5.7	5.7	4.6	3.4	3.4	3.4	4.6	4.6
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)