

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: P233749

Luminaire Tested: **VERD-C02H6-D-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-33)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H6-D-U-T3-HSS
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10714 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 98
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

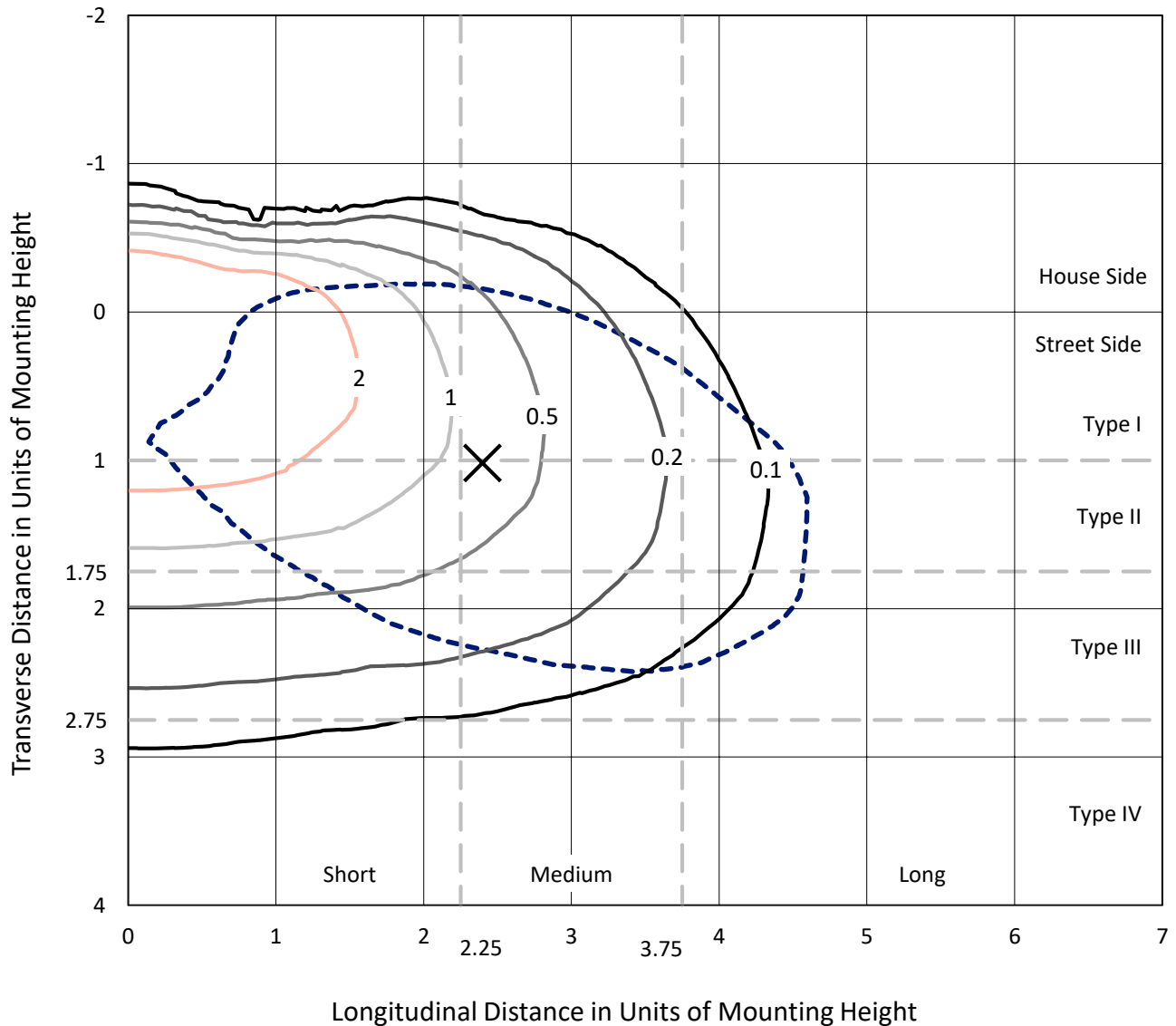


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

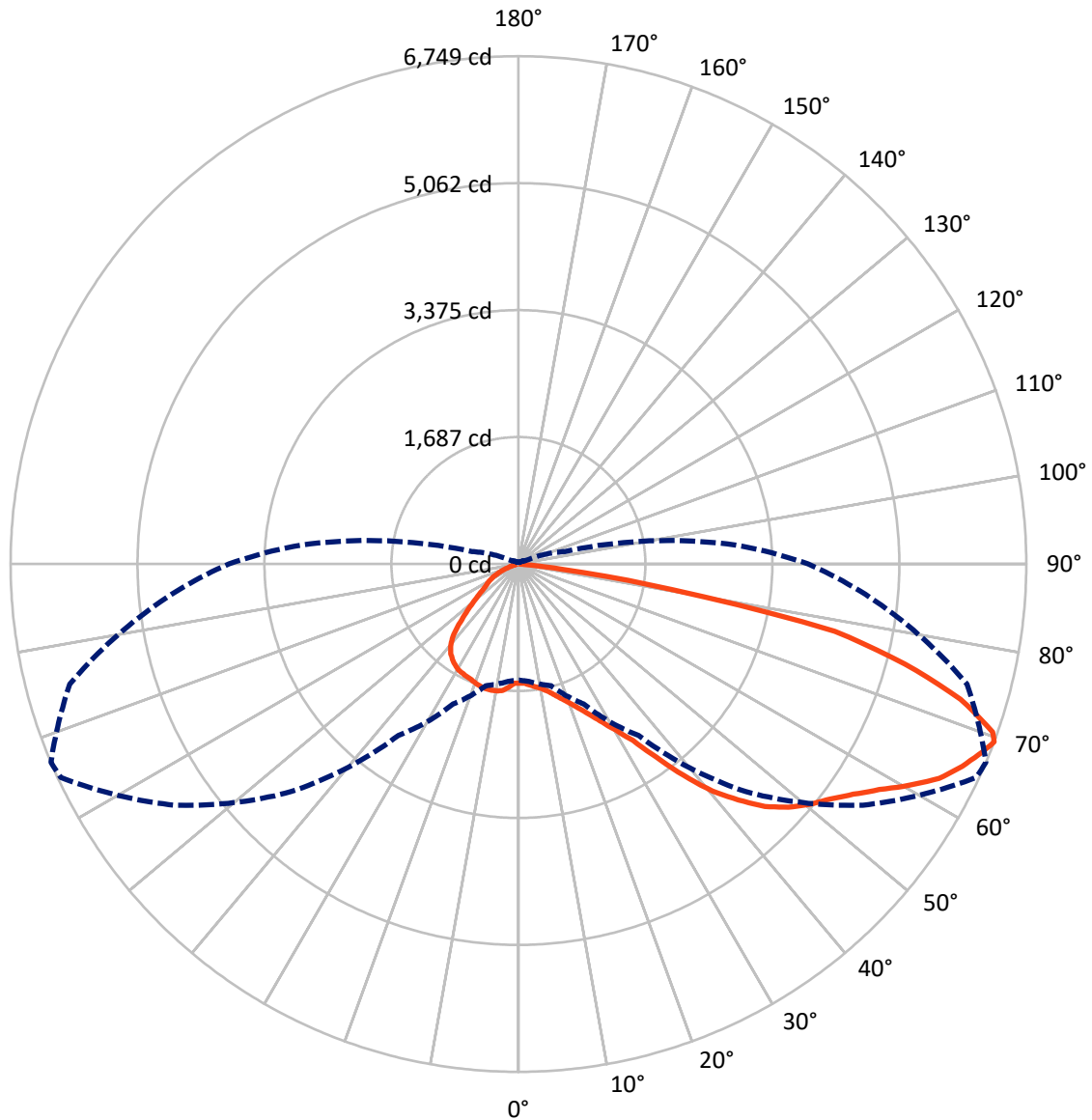


Based on 20 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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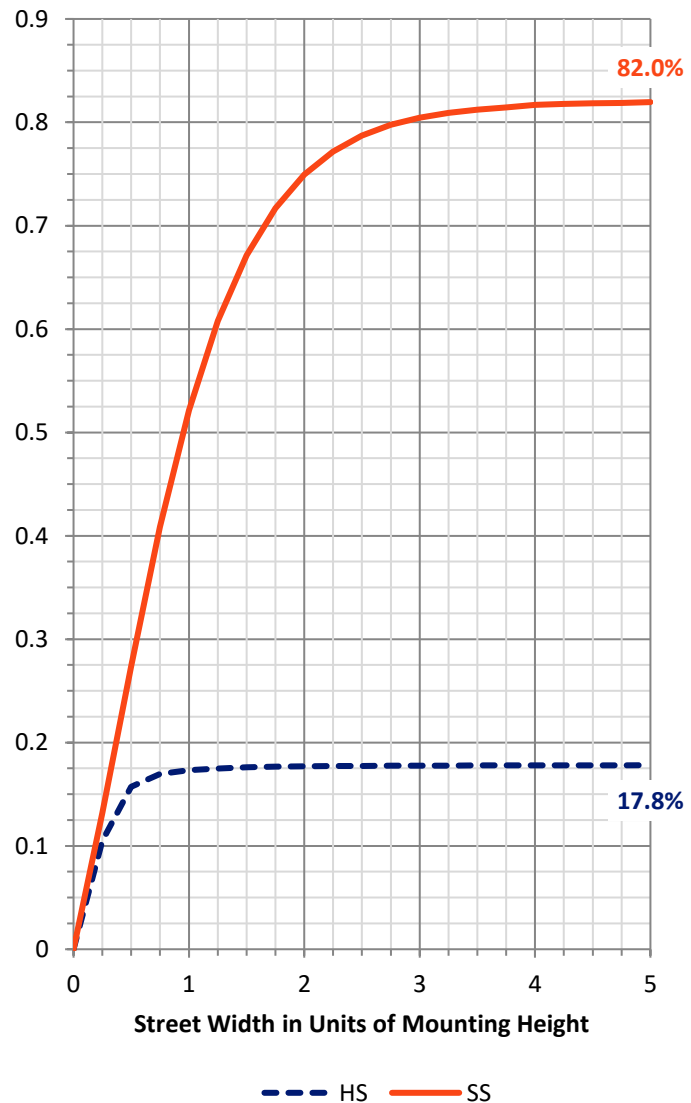
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1931.4	0.0	1931.4
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	8782.6	0.0	8782.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	10714.0	0.0	10714.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	1.5
10°-20°	503.0	4.7
20°-30°	858.5	8.0
30°-40°	1298.0	12.1
40°-50°	1833.8	17.1
50°-60°	2216.2	20.7
60°-70°	2338.4	21.8
70°-80°	1407.7	13.1
80°-90°	98.4	0.9
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°	10714.0	100.0
0°-180°	10714.0	100.0



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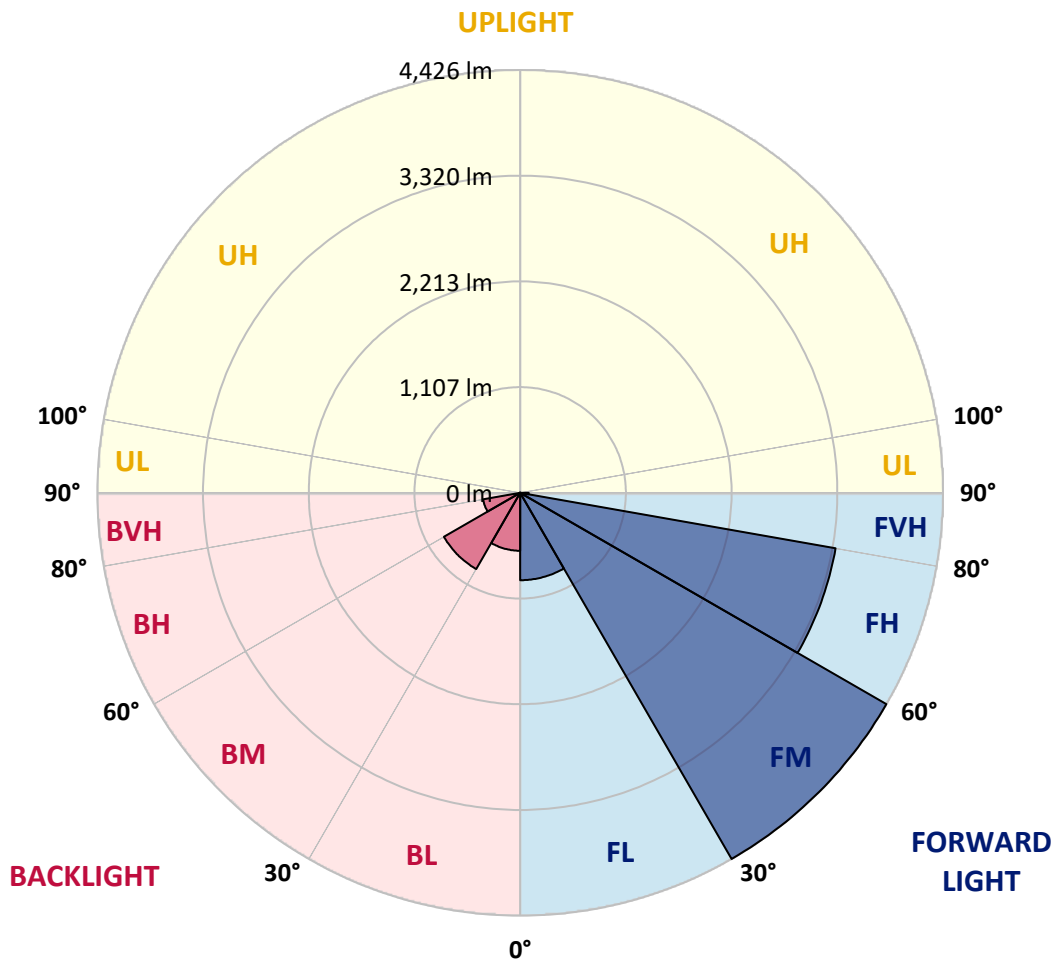
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	914.9	8.5			
FM	(30°-60°)	4426.4	41.3			
FH	(60°-80°)	3352.4	31.3			G2/5000
FVH	(80°-90°)	88.8	0.8			G1/100
BL	(0°-30°)	606.6	5.7	B2/1000		
BM	(30°-60°)	921.5	8.6	B1/1000		
BH	(60°-80°)	393.8	3.7	B1/500		G1/500
BVH	(80°-90°)	9.6	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4
2.5°	1625.4	1622.9	1622.9	1608.3	1594.7	1591.3	1590.4	1586.1	1587.0	1581.0	1575.0
5°	1672.4	1672.4	1670.7	1651.9	1637.4	1628.0	1622.0	1614.3	1615.2	1610.9	1605.8
7.5°	1743.2	1744.1	1740.7	1715.9	1701.4	1678.3	1664.7	1650.2	1649.3	1644.2	1645.9
10°	1830.3	1832.9	1827.7	1796.2	1771.4	1739.8	1710.8	1685.2	1683.5	1677.5	1682.6
12.5°	1928.5	1931.9	1919.1	1886.6	1858.5	1809.0	1774.0	1739.8	1734.7	1733.8	1737.2
15°	2041.2	2042.9	2038.6	1990.8	1956.6	1911.4	1854.2	1810.7	1805.5	1806.4	1802.1
17.5°	2166.7	2170.9	2161.5	2118.8	2073.6	2011.3	1943.0	1889.2	1886.6	1884.1	1865.3
20°	2299.8	2304.1	2298.1	2258.0	2204.2	2125.7	2042.0	1980.5	1979.7	1973.7	1930.2
22.5°	2450.1	2456.1	2452.6	2404.0	2346.8	2261.4	2157.3	2093.2	2091.5	2072.7	2007.0
25°	2613.1	2611.4	2614.8	2562.8	2509.0	2419.3	2290.4	2223.8	2223.8	2200.8	2103.5
27.5°	2771.1	2770.2	2776.2	2739.5	2683.1	2598.6	2443.2	2375.8	2381.8	2348.5	2219.6
30°	2924.7	2924.7	2939.2	2915.3	2873.5	2784.7	2632.8	2561.9	2569.6	2534.6	2366.4
32.5°	3068.1	3075.0	3099.7	3085.2	3053.6	2973.4	2843.6	2778.7	2796.7	2811.2	2639.6
35°	3174.0	3180.8	3238.0	3243.1	3235.5	3181.7	3085.2	3127.0	3148.4	3262.8	3071.6
37.5°	3267.1	3275.6	3343.9	3386.6	3411.3	3378.0	3384.0	3524.0	3564.1	3699.0	3440.3
40°	3335.3	3354.1	3421.6	3480.5	3567.5	3606.8	3704.1	3903.0	3967.9	4021.7	3693.9
42.5°	3288.4	3301.2	3419.9	3577.8	3705.0	3843.3	4001.2	4237.7	4286.4	4269.3	3917.6
45°	3219.2	3234.6	3359.2	3603.4	3814.3	4090.0	4282.9	4539.0	4594.5	4499.8	4110.5
47.5°	3141.6	3162.9	3297.8	3569.3	3905.6	4317.1	4538.2	4797.7	4830.1	4705.5	4272.7
50°	3063.0	3086.9	3239.7	3541.1	3976.5	4506.6	4724.3	5008.6	5018.0	4876.2	4418.7
52.5°	2957.2	2981.9	3149.2	3482.2	4026.0	4631.2	4887.3	5181.9	5187.8	5060.6	4557.0
55°	2823.1	2854.7	3031.4	3395.1	4037.9	4703.8	4990.6	5362.0	5402.1	5260.4	4670.5
57.5°	2665.2	2694.2	2888.9	3269.6	3978.2	4728.6	5134.9	5600.2	5655.7	5462.7	4764.4
60°	2483.4	2516.7	2712.2	3107.4	3857.8	4797.7	5373.9	5936.5	5969.8	5674.4	4847.2
62.5°	2297.3	2321.2	2498.7	2879.5	3670.0	4839.5	5585.7	6252.4	6274.6	5878.5	4896.7
65°	2032.6	2062.5	2235.8	2618.3	3399.4	4759.3	5666.8	6468.4	6482.0	6049.2	4872.8
67.5°	1744.9	1768.8	1895.2	2303.2	3044.2	4504.9	5633.5	6612.6	6656.2	6182.4	4764.4
69°	1540.9	1564.8	1674.1	2051.4	2780.5	4279.5	5586.5	6710.8	6749.2	6173.0	4626.1
70°	1382.1	1406.0	1509.3	1863.6	2573.9	4089.2	5512.2	6661.3	6686.1	6068.0	4491.2
72.5°	988.6	1012.5	1097.0	1310.4	1949.8	3361.0	5052.1	6111.5	6144.8	5563.5	4014.0
75°	517.3	574.5	726.5	846.9	1155.0	2366.4	4200.1	5256.1	5304.8	4882.2	3301.2
77.5°	66.6	70.0	204.9	344.0	477.2	998.0	2983.6	4220.6	4297.4	3907.3	2282.8
80°	53.8	54.6	70.9	171.6	237.3	404.6	1058.6	1975.4	2068.5	1736.4	839.2
82.5°	37.6	39.3	55.5	90.5	77.7	147.7	367.9	558.3	575.4	497.7	334.6
85°	21.3	21.3	26.5	35.0	24.8	55.5	76.0	81.1	72.6	71.7	53.8
87.5°	6.0	6.8	7.7	6.0	2.6	2.6	3.4	3.4	3.4	2.6	2.6
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°	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4	1584.4
2.5°	1584.4	1582.7	1583.6	1587.0	1592.1	1610.9	1623.7	1625.4	1631.4	1653.6	1651.0
5°	1611.8	1622.0	1628.0	1645.9	1657.9	1683.5	1698.8	1700.5	1709.1	1732.1	1733.0
7.5°	1650.2	1667.2	1675.8	1696.3	1700.5	1712.5	1716.8	1712.5	1713.3	1733.8	1735.5
10°	1683.5	1704.8	1704.8	1709.9	1702.2	1703.1	1689.4	1676.6	1669.8	1687.7	1692.0
12.5°	1734.7	1740.7	1727.0	1711.6	1688.6	1668.1	1645.1	1624.6	1608.3	1618.6	1612.6
15°	1787.6	1778.2	1744.9	1704.8	1663.8	1628.8	1581.0	1551.1	1523.0	1528.9	1523.8
17.5°	1840.5	1809.8	1757.7	1691.1	1631.4	1564.8	1498.2	1451.3	1400.0	1395.8	1388.1
20°	1891.8	1847.4	1761.2	1663.0	1579.3	1485.4	1382.1	1301.9	1225.9	1206.3	1193.5
22.5°	1953.2	1889.2	1765.4	1635.7	1523.0	1394.9	1238.7	1114.1	1032.1	1004.8	992.0
25°	2031.8	1947.3	1777.4	1615.2	1465.8	1283.1	1068.8	926.2	837.5	790.5	786.2
27.5°	2124.8	2017.3	1797.9	1588.7	1384.7	1133.7	893.0	744.4	649.7	601.8	586.5
30°	2246.9	2104.3	1816.6	1568.2	1270.3	970.6	708.6	542.9	430.3	399.5	383.3
32.5°	2478.2	2246.0	1840.5	1520.4	1135.4	792.2	502.0	334.6	257.8	237.3	237.3
35°	2854.7	2557.6	1900.3	1454.7	973.2	577.1	301.4	187.8	153.7	141.7	135.7
37.5°	3194.5	2871.8	2049.7	1353.1	776.0	341.5	172.4	116.1	105.0	106.7	106.7
40°	3434.4	3086.9	2214.5	1215.6	526.7	182.7	109.3	93.1	94.8	95.6	95.6
42.5°	3640.1	3270.5	2304.9	1052.6	286.8	118.7	93.9	84.5	87.1	86.2	85.4
45°	3812.6	3419.9	2334.8	828.1	139.2	105.0	85.4	77.7	77.7	76.8	76.8
47.5°	3960.2	3552.2	2279.3	615.5	112.7	96.5	81.1	71.7	70.9	75.1	75.1
50°	4095.1	3654.6	2141.0	466.1	109.3	88.8	76.8	66.6	67.4	73.4	73.4
52.5°	4207.8	3715.2	1936.2	349.2	101.6	82.0	70.9	62.3	62.3	68.3	68.3
55°	4291.5	3715.2	1779.9	261.2	97.3	75.1	65.7	59.8	56.3	58.1	58.9
57.5°	4333.3	3645.2	1654.4	211.7	92.2	68.3	60.6	52.1	46.1	47.8	47.0
60°	4322.2	3605.1	1510.2	188.7	86.2	63.2	53.8	44.4	38.4	36.7	36.7
62.5°	4301.7	3559.9	1330.0	163.9	80.2	58.9	44.4	35.9	32.4	30.7	31.6
65°	4224.0	3413.0	1102.1	136.6	74.3	57.2	37.6	31.6	28.2	26.5	26.5
67.5°	4036.2	3148.4	833.2	115.2	69.1	46.1	32.4	27.3	23.9	22.2	22.2
69°	3850.1	2895.7	639.4	105.0	65.7	41.8	29.9	24.8	22.2	19.6	19.6
70°	3689.6	2700.2	501.1	98.2	63.2	40.1	29.0	23.9	21.3	18.8	18.8
72.5°	3141.6	2141.9	254.4	85.4	52.9	35.0	25.6	21.3	17.9	15.4	15.4
75°	2437.3	1476.0	168.2	67.4	41.0	31.6	23.0	18.8	15.4	12.8	12.0
77.5°	1466.6	577.1	120.4	43.5	26.5	24.8	18.8	15.4	12.8	10.2	10.2
80°	404.6	247.6	81.1	29.0	15.4	16.2	13.7	11.1	9.4	7.7	7.7
82.5°	243.3	160.5	53.8	18.8	10.2	10.2	7.7	7.7	6.0	6.0	6.0
85°	41.8	32.4	12.8	7.7	6.0	6.0	4.3	2.6	2.6	2.6	2.6
87.5°	2.6	2.6	2.6	3.4	3.4	2.6	1.7	0.9	0.0	0.0	0.0
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)