

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: P507641

Luminaire Tested: **VERD-S-CA1-60-740-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507641  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-S-CA1-60-740-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1150mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8732 lumens  
Efficiency: N/A  
Efficacy: 137.9 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

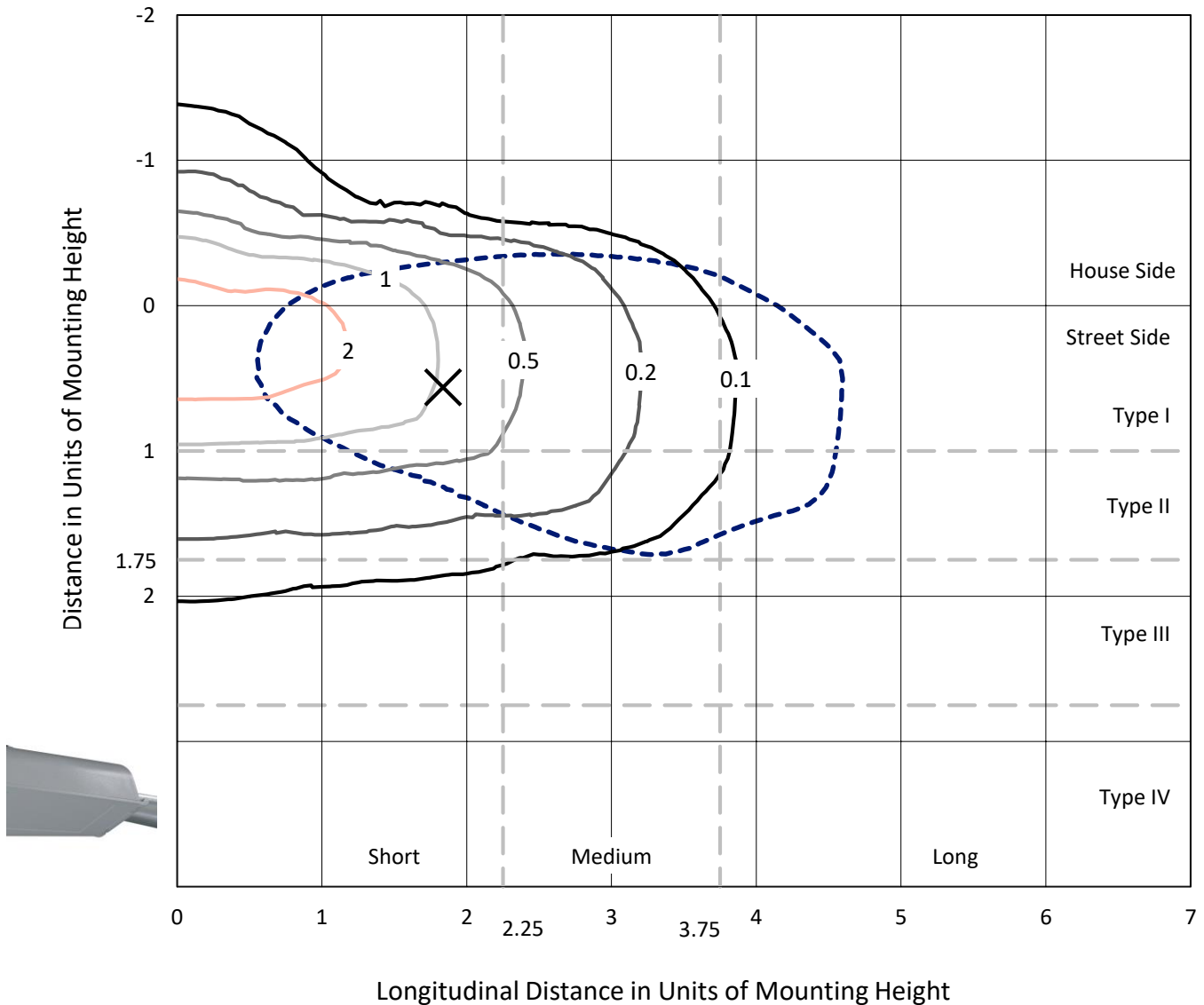
Input Watts (W): 63.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

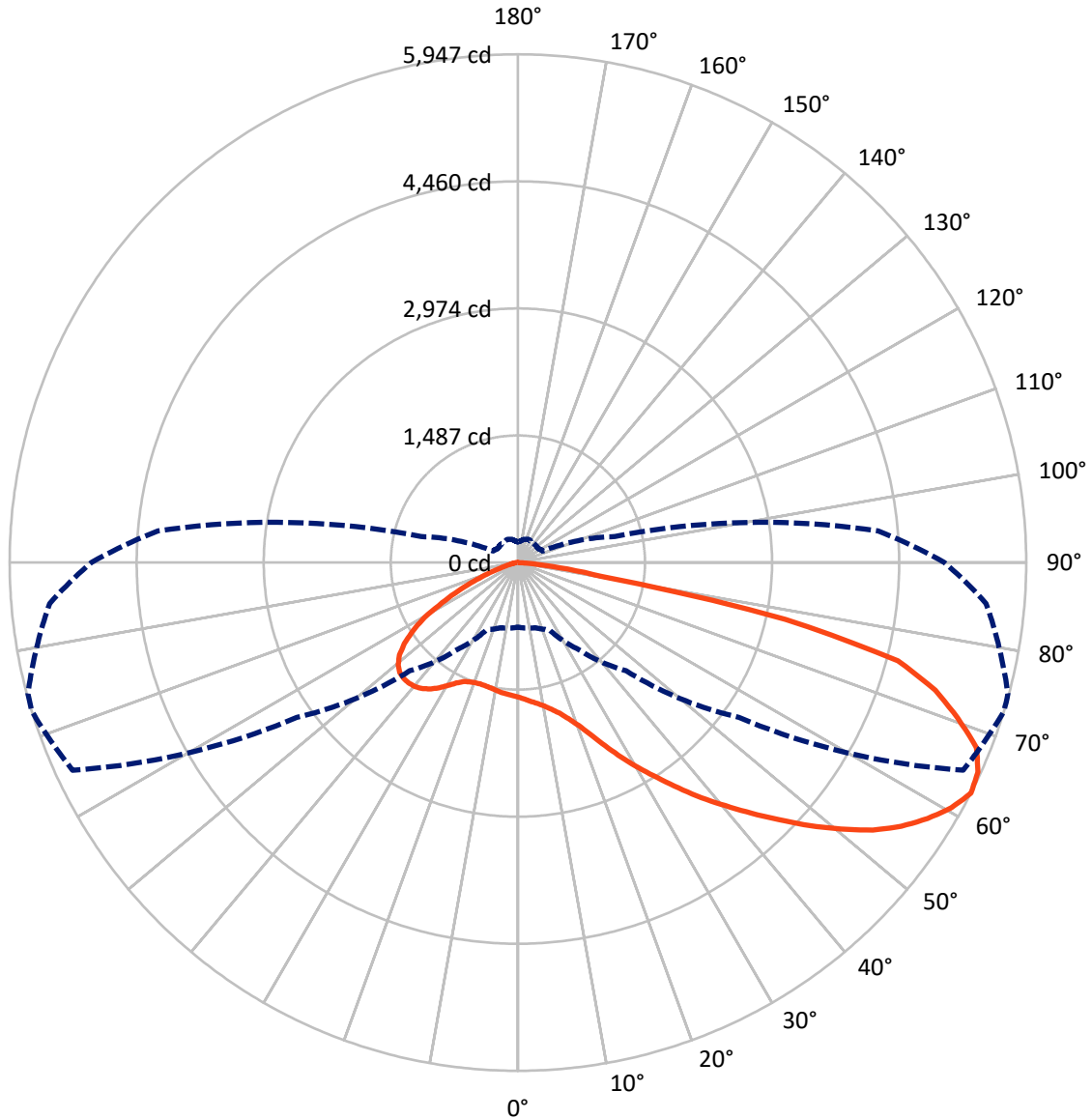
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 73-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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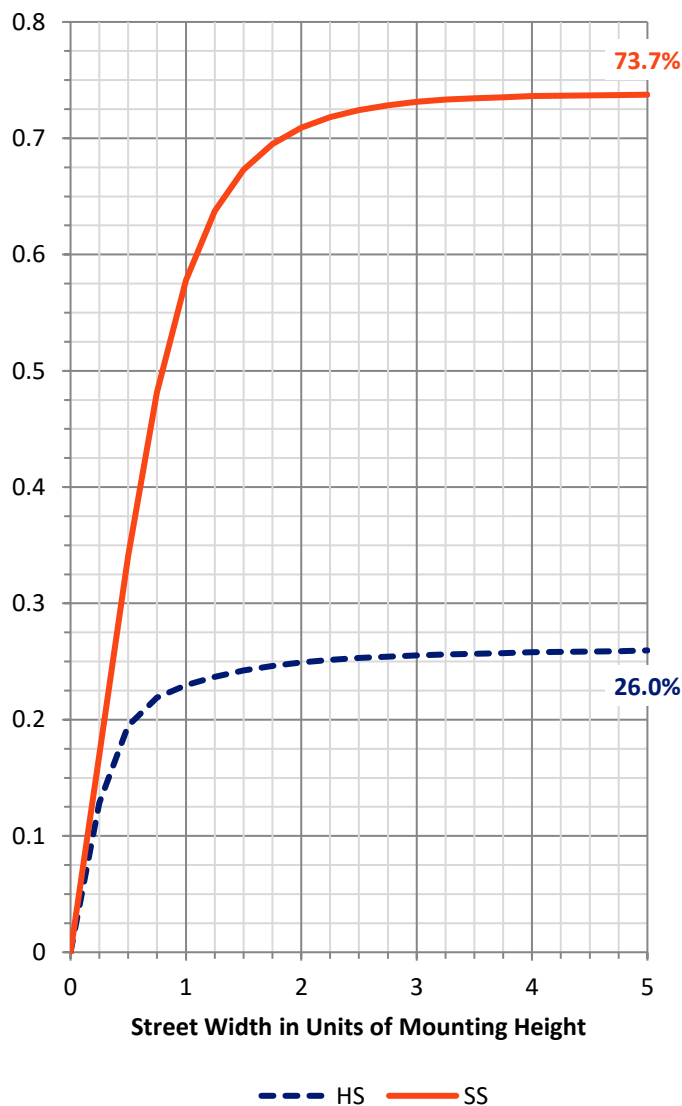
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2300.1	0.0	2300.1
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	6431.9	0.0	6431.9
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	8732.0	0.0	8732.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.4	1.7
10°-20°	465.9	5.3
20°-30°	806.5	9.2
30°-40°	1168.0	13.4
40°-50°	1496.1	17.1
50°-60°	1732.1	19.8
60°-70°	1744.2	20.0
70°-80°	1066.4	12.2
80°-90°	100.4	1.1
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°	8732.0	100.0
0°-180°	8732.0	100.0

**Coefficient of Utilization**



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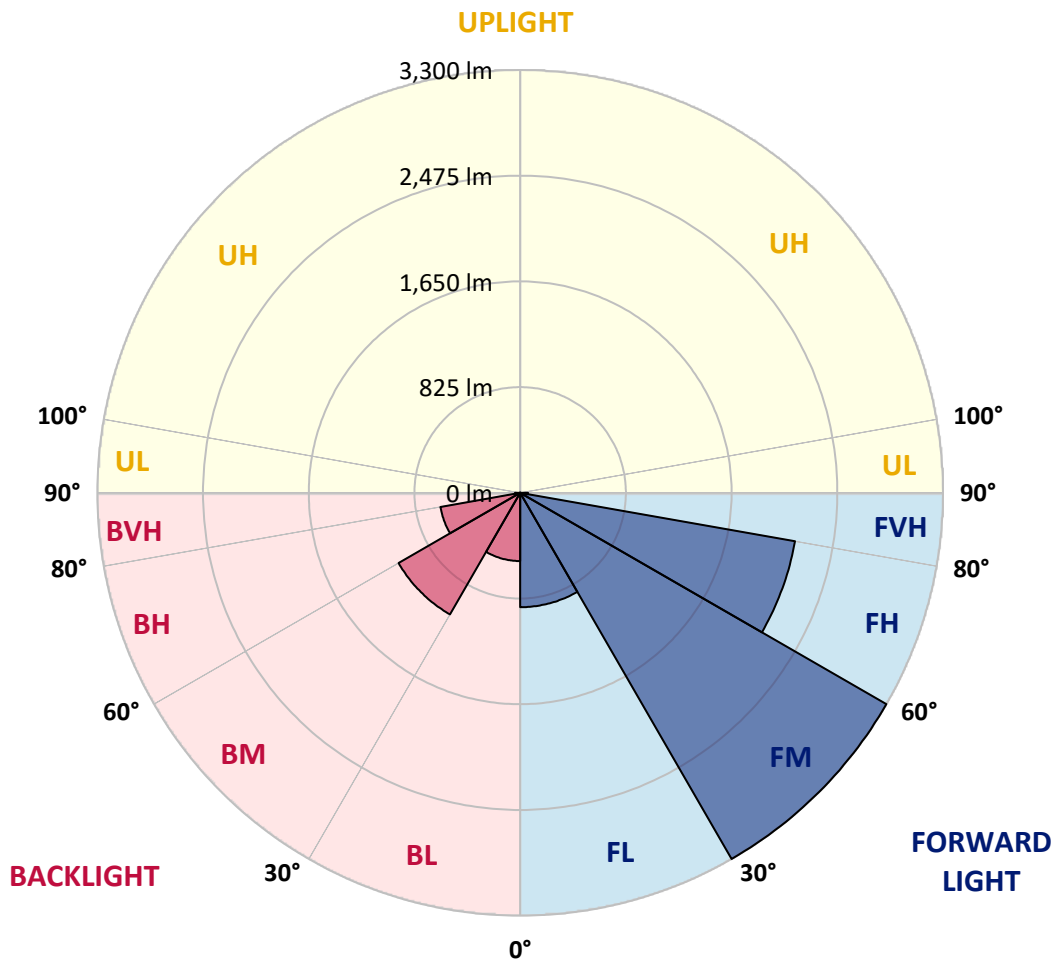
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	892.5	10.2			
FM	(30°-60°)	3300.4	37.8			
FH	(60°-80°)	2178.3	24.9			G2/5000
FVH	(80°-90°)	60.7	0.7			G1/100
BL	(0°-30°)	532.4	6.1	B2/1000		
BM	(30°-60°)	1095.7	12.5	B2/2500		
BH	(60°-80°)	632.2	7.2	B2/1000		G2/1000
BVH	(80°-90°)	39.8	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3
2.5°	1658.5	1656.0	1651.1	1648.6	1643.7	1631.4	1624.0	1611.7	1601.9	1599.4	1584.6
5°	1739.7	1742.1	1739.7	1732.3	1722.4	1705.2	1680.6	1648.6	1633.8	1628.9	1604.3
7.5°	1815.9	1815.9	1813.5	1803.6	1793.8	1771.6	1737.2	1700.3	1665.8	1656.0	1624.0
10°	1889.7	1889.7	1882.4	1872.5	1857.8	1830.7	1796.2	1749.5	1707.7	1692.9	1638.8
12.5°	1968.5	1966.0	1956.2	1941.4	1921.7	1899.6	1862.7	1811.0	1764.3	1747.0	1670.8
15°	2030.0	2030.0	2022.6	2012.8	1995.6	1968.5	1934.0	1889.7	1828.2	1813.5	1715.0
17.5°	2084.1	2086.6	2081.7	2081.7	2066.9	2047.2	2017.7	1980.8	1921.7	1899.6	1781.5
20°	2128.4	2126.0	2135.8	2143.2	2148.1	2135.8	2118.6	2094.0	2034.9	2012.8	1867.6
22.5°	2148.1	2153.0	2182.6	2219.5	2241.6	2244.1	2241.6	2239.2	2187.5	2158.0	1985.7
25°	2158.0	2165.3	2209.6	2273.6	2322.8	2359.7	2399.1	2423.7	2376.9	2354.8	2162.9
27.5°	2167.8	2175.2	2226.9	2305.6	2399.1	2487.7	2566.4	2613.2	2578.7	2551.7	2345.0
30°	2150.6	2158.0	2217.0	2327.7	2460.6	2615.6	2726.4	2792.8	2787.9	2770.6	2554.1
32.5°	2113.7	2121.0	2187.5	2325.3	2524.6	2746.0	2869.1	2979.8	3001.9	2984.7	2763.3
35°	2047.2	2057.1	2133.3	2295.7	2554.1	2854.3	3019.2	3181.6	3238.2	3240.6	2992.1
37.5°	1956.2	1961.1	2054.6	2239.2	2564.0	2930.6	3144.7	3376.0	3491.6	3494.1	3225.9
40°	1833.2	1845.5	1961.1	2167.8	2541.8	2984.7	3270.1	3587.6	3740.1	3722.9	3479.3
42.5°	1692.9	1702.7	1815.9	2054.6	2490.1	3016.7	3385.8	3809.0	4010.8	4001.0	3718.0
45°	1567.4	1582.2	1668.3	1897.1	2391.7	3024.1	3486.7	4030.5	4291.3	4279.0	3961.6
47.5°	1400.1	1437.0	1552.6	1756.9	2244.1	2992.1	3577.7	4330.7	4601.3	4584.1	4217.5
50°	1077.7	1090.0	1333.7	1638.8	2076.8	2913.4	3656.5	4608.7	4901.5	4889.2	4485.7
52.5°	971.9	981.8	1060.5	1503.4	1909.4	2773.1	3703.2	4965.5	5201.7	5167.3	4726.8
55°	912.9	922.7	967.0	1200.8	1764.3	2561.5	3713.1	5268.2	5445.3	5413.3	4953.2
57.5°	858.8	866.1	908.0	1028.5	1596.9	2268.7	3661.4	5511.8	5652.0	5620.0	5157.4
60°	802.2	809.5	853.8	935.0	1390.2	2000.5	3491.6	5701.2	5826.7	5794.7	5342.0
62.5°	755.4	767.7	789.9	866.1	1242.6	1791.3	3159.4	5748.0	5947.3	5935.0	5499.5
65°	698.8	703.7	738.2	799.7	1097.4	1646.1	2802.6	5612.6	5915.3	5937.4	5593.0
67.5°	634.8	637.3	669.3	713.6	917.8	1503.4	2485.2	5430.6	5787.4	5824.3	5524.1
70°	548.7	551.2	580.7	627.5	760.3	1304.1	2158.0	5162.4	5460.1	5494.5	5258.3
72.5°	457.7	457.7	482.3	534.0	627.5	1080.2	1727.3	4574.3	5108.2	5164.8	4825.3
75°	199.3	206.7	248.5	297.7	406.0	794.8	1178.6	3540.8	4591.5	4630.9	4229.8
77.5°	54.1	54.1	64.0	83.7	118.1	354.3	374.0	1557.6	3198.8	3299.7	3127.4
80°	44.3	44.3	49.2	64.0	81.2	174.7	125.5	502.0	989.2	1304.1	1621.5
82.5°	24.6	24.6	29.5	36.9	44.3	44.3	44.3	255.9	487.2	519.2	679.1
85°	12.3	14.8	14.8	17.2	17.2	14.8	14.8	51.7	93.5	105.8	162.4
87.5°	4.9	4.9	4.9	4.9	2.5	2.5	4.9	7.4	7.4	9.8	12.3
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°	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3	1577.3
2.5°	1579.7	1572.3	1562.5	1555.1	1540.3	1525.6	1515.7	1508.4	1505.9	1503.4	1503.4
5°	1589.6	1577.3	1550.2	1523.1	1501.0	1481.3	1464.1	1451.8	1446.8	1444.4	1444.4
7.5°	1604.3	1587.1	1542.8	1503.4	1464.1	1434.5	1407.5	1390.2	1380.4	1382.9	1390.2
10°	1611.7	1584.6	1525.6	1486.2	1434.5	1387.8	1355.8	1336.1	1328.7	1328.7	1326.3
12.5°	1631.4	1592.0	1513.3	1451.8	1407.5	1343.5	1306.6	1289.4	1279.5	1264.8	1259.8
15°	1660.9	1611.7	1508.4	1427.2	1358.3	1301.7	1252.4	1227.8	1220.5	1200.8	1200.8
17.5°	1715.0	1646.1	1508.4	1400.1	1311.5	1257.4	1193.4	1158.9	1154.0	1141.7	1139.3
20°	1779.0	1692.9	1520.7	1373.0	1262.3	1190.9	1119.6	1085.1	1072.8	1060.5	1060.5
22.5°	1879.9	1764.3	1542.8	1353.3	1210.6	1122.0	1043.3	994.1	974.4	971.9	967.0
25°	2034.9	1877.4	1577.3	1333.7	1158.9	1045.8	967.0	903.0	871.1	866.1	863.7
27.5°	2204.7	2032.5	1646.1	1316.4	1102.4	959.6	866.1	797.2	757.9	752.9	750.5
30°	2386.8	2192.4	1737.2	1301.7	1031.0	861.2	755.4	689.0	652.1	642.2	644.7
32.5°	2586.1	2364.6	1835.6	1289.4	954.7	733.3	634.8	590.5	551.2	534.0	536.4
35°	2780.5	2517.2	1921.7	1279.5	853.8	617.6	541.3	494.6	455.2	433.1	433.1
37.5°	2999.5	2696.8	1993.1	1259.8	745.6	538.9	465.1	418.3	388.8	369.1	369.1
40°	3213.6	2876.5	2049.7	1222.9	625.0	474.9	383.9	356.8	337.1	324.8	319.9
42.5°	3422.7	3056.1	2086.6	1161.4	524.1	398.6	319.9	317.4	319.9	307.6	305.1
45°	3639.2	3233.2	2113.7	1063.0	452.8	329.7	285.4	302.7	319.9	315.0	315.0
47.5°	3875.5	3405.5	2135.8	903.0	383.9	290.4	283.0	300.2	322.3	324.8	324.8
50°	4101.8	3580.2	2128.4	698.8	337.1	287.9	285.4	290.4	319.9	327.3	322.3
52.5°	4313.4	3730.3	2069.4	509.3	315.0	292.8	292.8	287.9	312.5	317.4	319.9
55°	4527.5	3870.5	1936.5	403.5	302.7	292.8	305.1	292.8	300.2	302.7	307.6
57.5°	4721.9	4013.3	1739.7	361.7	300.2	292.8	305.1	297.7	297.7	287.9	285.4
60°	4872.0	4131.4	1501.0	344.5	292.8	295.3	300.2	300.2	292.8	270.7	263.3
62.5°	4990.1	4229.8	1173.7	322.3	287.9	290.4	287.9	297.7	280.5	248.5	241.1
65°	5056.6	4247.0	898.1	297.7	275.6	285.4	278.0	275.6	260.8	226.4	211.6
67.5°	4982.7	4126.4	627.5	273.1	260.8	278.0	265.7	255.9	238.7	206.7	187.0
70°	4697.3	3777.0	413.4	241.1	241.1	260.8	251.0	236.2	214.1	189.5	167.3
72.5°	4160.9	3255.4	248.5	199.3	214.1	238.7	233.8	214.1	150.1	115.6	100.9
75°	3518.7	2674.7	159.9	150.1	174.7	214.1	216.5	191.9	128.0	103.3	103.3
77.5°	2556.6	1756.9	93.5	83.7	115.6	172.2	184.5	140.3	137.8	191.9	140.3
80°	1311.5	851.4	71.4	51.7	61.5	128.0	103.3	105.8	209.2	155.0	98.4
82.5°	568.4	337.1	44.3	36.9	39.4	64.0	66.4	174.7	162.4	91.0	61.5
85°	120.6	64.0	24.6	24.6	24.6	29.5	36.9	189.5	100.9	46.8	19.7
87.5°	12.3	12.3	12.3	12.3	12.3	12.3	9.8	9.8	9.8	7.4	7.4
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)