

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: P507644

Luminaire Tested: **VERD-S-CA1-60-740-U-T4-HSS**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507644  
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-CA1-60-740-U-T4-HSS  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1150mA LED AND TYPE IV OPTIC WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7782 lumens  
Efficiency: N/A  
Efficacy: 122.9 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

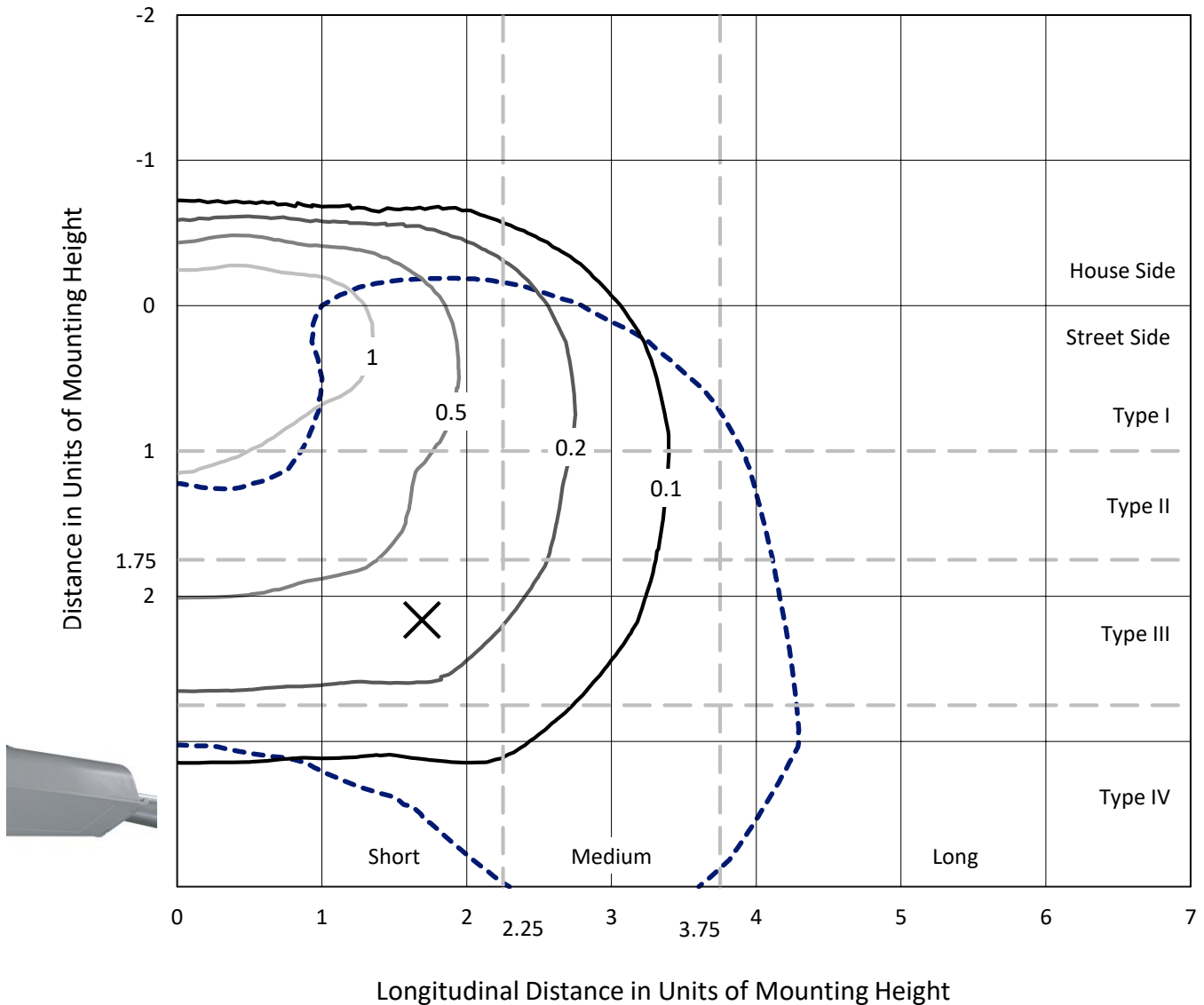
Input Watts (W): 63.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

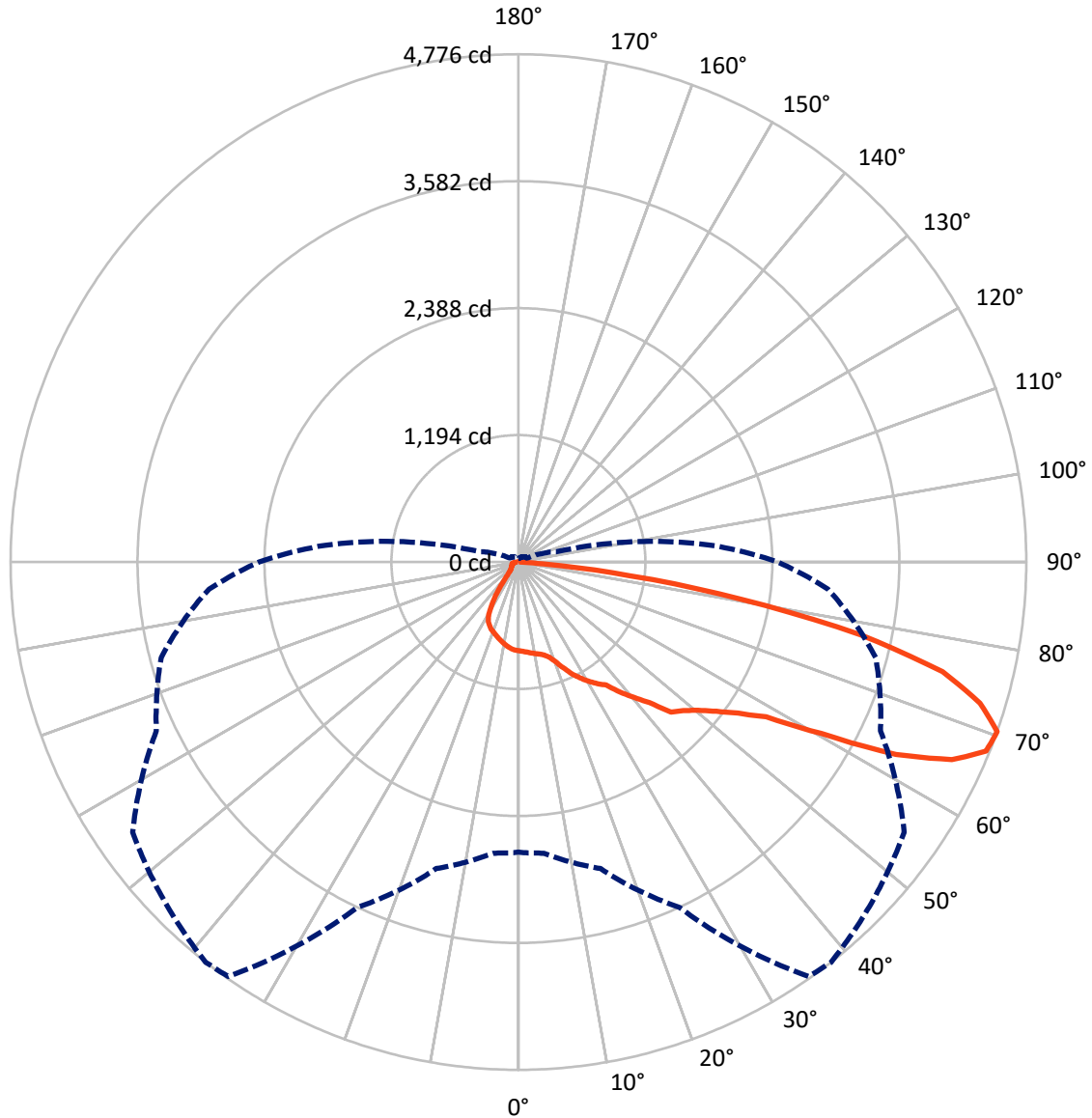
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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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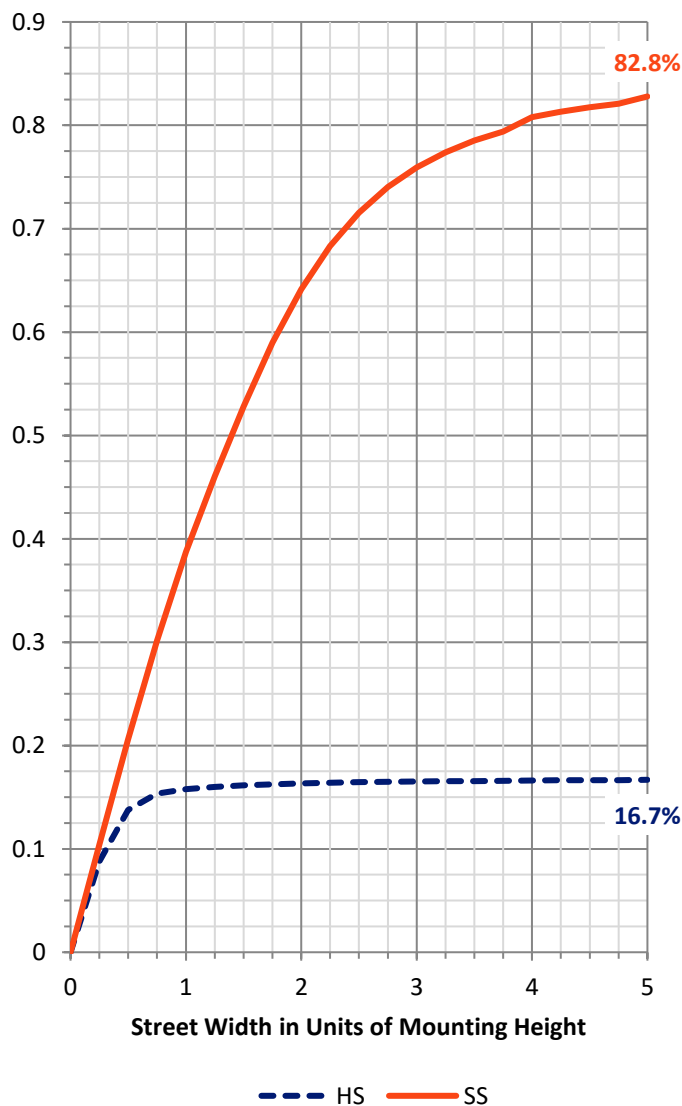
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1316.5	0.0	1316.5
	% Fixture	16.9	0.0	16.9
<b>Street Side</b>	Lumens	6465.5	0.0	6465.5
	% Fixture	83.1	0.0	83.1
<b>Total</b>	Lumens	7782.0	0.0	7782.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.8	1.0
10°-20°	241.7	3.1
20°-30°	444.9	5.7
30°-40°	696.5	9.0
40°-50°	1058.1	13.6
50°-60°	1521.5	19.6
60°-70°	2044.0	26.3
70°-80°	1514.4	19.5
80°-90°	181.1	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°	7782.0	100.0
0°-180°	7782.0	100.0

**Coefficient of Utilization**



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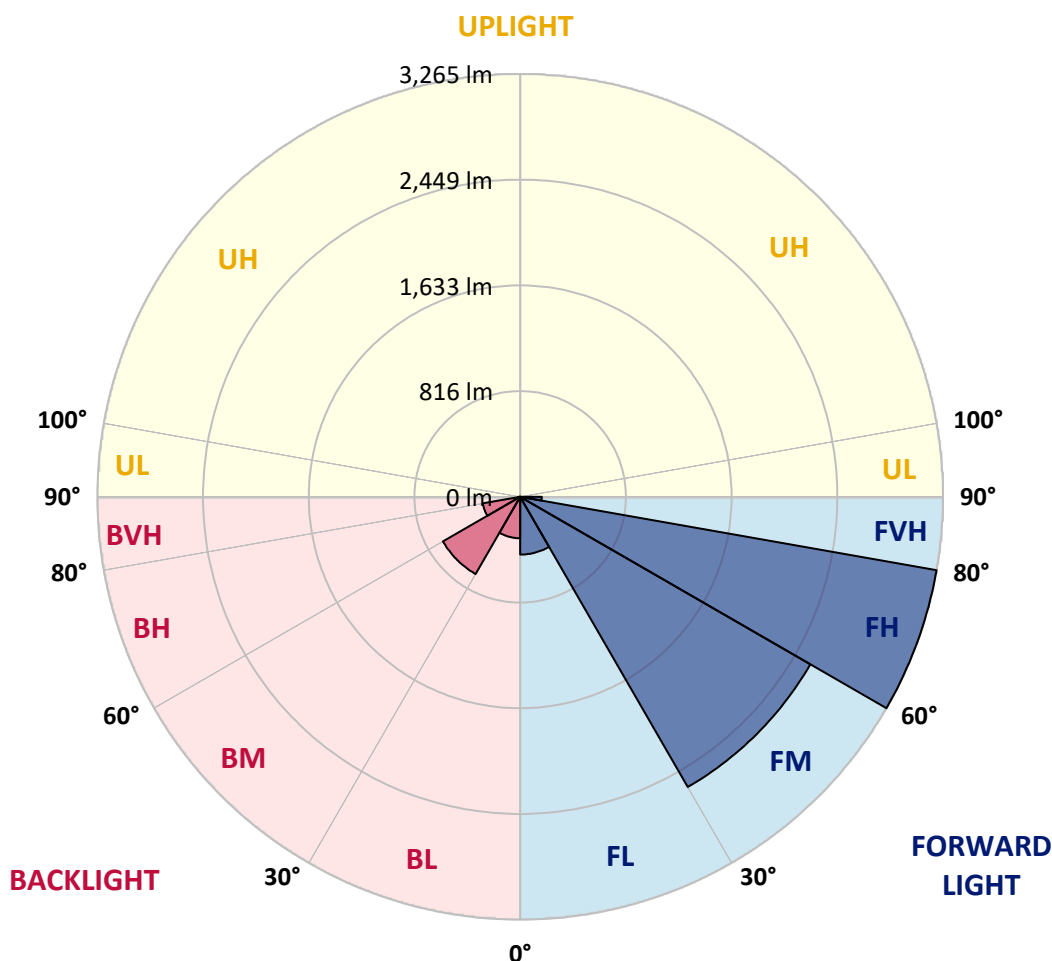
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	446.1	5.7			
FM	(30°-60°)	2587.5	33.2			
FH	(60°-80°)	3265.3	42.0			G2/5000
FVH	(80°-90°)	166.6	2.1			G2/225
BL	(0°-30°)	320.2	4.1	B1/500		
BM	(30°-60°)	688.7	8.8	B1/1000		
BH	(60°-80°)	293.1	3.8	B1/500		G1/500
BVH	(80°-90°)	14.5	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°	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1
2.5°	846.4	846.4	846.4	844.0	844.0	841.5	841.5	839.0	839.0	836.6	834.1
5°	858.7	858.7	856.3	853.8	851.3	851.3	851.3	848.9	844.0	844.0	839.0
7.5°	863.6	863.6	863.6	863.6	863.6	863.6	863.6	861.2	858.7	856.3	851.3
10°	866.1	866.1	868.6	868.6	873.5	875.9	875.9	878.4	875.9	871.0	866.1
12.5°	873.5	875.9	875.9	878.4	885.8	888.2	890.7	898.1	898.1	893.2	888.2
15°	888.2	888.2	890.7	895.6	905.5	907.9	915.3	922.7	927.6	922.7	917.8
17.5°	932.5	932.5	932.5	932.5	937.5	939.9	949.8	962.1	967.0	967.0	964.5
20°	1021.1	1021.1	1016.2	1006.3	1001.4	1001.4	999.0	1003.9	1013.7	1021.1	1023.6
22.5°	1122.0	1119.5	1117.1	1102.3	1085.1	1080.2	1075.2	1070.3	1075.2	1087.5	1092.5
25°	1200.7	1203.2	1200.7	1181.0	1166.3	1163.8	1156.4	1158.9	1158.9	1161.4	1168.7
27.5°	1264.7	1269.6	1259.8	1249.9	1240.1	1232.7	1237.6	1245.0	1257.3	1252.4	1267.2
30°	1336.1	1333.6	1323.8	1311.5	1304.1	1301.6	1299.1	1326.2	1360.7	1375.4	1392.6
32.5°	1464.0	1461.5	1441.9	1380.3	1363.1	1363.1	1368.0	1402.5	1456.6	1503.4	1547.7
35°	1582.1	1582.1	1557.5	1515.7	1441.9	1419.7	1432.0	1473.8	1552.6	1646.1	1717.4
37.5°	1722.4	1724.8	1697.8	1633.8	1574.7	1552.6	1493.5	1552.6	1648.5	1828.2	1916.7
40°	1884.8	1879.8	1835.5	1766.6	1690.4	1673.1	1623.9	1636.2	1771.6	2042.2	2128.3
42.5°	1975.8	1970.9	1941.3	1887.2	1825.7	1806.0	1761.7	1749.4	1936.4	2278.4	2335.0
45°	2064.4	2069.3	2066.8	2039.8	2025.0	2012.7	1988.1	1990.6	2140.6	2512.2	2514.6
47.5°	2116.0	2125.9	2086.5	2084.1	2086.5	2086.5	2121.0	2189.9	2335.0	2711.5	2672.1
50°	2268.6	2258.7	2138.2	2143.1	2175.1	2189.9	2253.8	2354.7	2605.7	2883.7	2807.4
52.5°	2576.2	2507.3	2354.7	2280.9	2293.2	2330.1	2406.4	2551.5	2876.3	3053.5	2928.0
55°	2920.6	2891.1	2733.6	2544.2	2460.5	2507.3	2588.5	2741.0	3090.4	3198.7	3028.9
57.5°	3159.3	3171.6	3176.5	3024.0	2731.2	2745.9	2797.6	2930.5	3282.3	3346.3	3105.2
60°	3390.6	3407.8	3501.3	3479.2	3383.2	3274.9	3073.2	3117.5	3447.2	3452.1	3164.2
62.5°	3575.1	3585.0	3735.1	3803.9	3976.2	3983.6	3656.3	3375.8	3614.5	3528.4	3186.4
65°	3481.6	3508.7	3727.7	3936.8	4426.5	4480.6	4352.6	3705.5	3742.4	3562.8	3171.6
67.5°	3166.7	3211.0	3417.6	3897.4	4707.0	4743.9	4630.7	4303.4	3789.2	3550.5	3090.4
70°	2728.7	2748.4	2984.6	3582.5	4758.6	4775.9	4635.6	4428.9	3757.2	3479.2	2920.6
72.5°	2219.4	2241.5	2445.7	3080.6	4524.9	4539.6	4502.7	4330.5	3680.9	3346.3	2576.2
75°	1665.8	1700.2	1894.6	2406.4	3995.9	4121.4	4197.6	4123.8	3469.3	2905.9	1961.0
77.5°	1099.8	1102.3	1299.1	1818.3	3166.7	3292.2	3304.5	3243.0	2463.0	1823.2	871.0
80°	472.4	516.7	760.3	1220.4	2103.7	2125.9	2150.5	1988.1	1262.2	563.5	96.0
82.5°	157.5	174.7	319.9	644.7	1035.9	1060.5	1016.2	880.9	354.3	76.3	54.1
85°	66.4	73.8	98.4	177.2	251.0	228.8	214.1	174.7	49.2	44.3	34.4
87.5°	2.5	2.5	2.5	2.5	4.9	2.5	4.9	4.9	7.4	7.4	9.8
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°	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1	834.1
2.5°	834.1	834.1	834.1	831.7	831.7	829.2	829.2	826.7	826.7	826.7	826.7
5°	839.0	839.0	834.1	831.7	826.7	821.8	816.9	812.0	807.0	807.0	807.0
7.5°	848.9	846.4	839.0	829.2	819.4	807.0	799.7	789.8	784.9	780.0	782.4
10°	863.6	858.7	848.9	834.1	814.4	794.7	777.5	762.8	755.4	748.0	745.5
12.5°	883.3	878.4	863.6	841.5	812.0	782.4	755.4	733.2	718.5	711.1	708.6
15°	912.8	905.5	885.8	853.8	812.0	767.7	730.8	698.8	674.2	659.4	659.4
17.5°	959.6	952.2	925.2	880.9	821.8	760.3	703.7	649.6	617.6	600.4	597.9
20°	1021.1	1011.3	979.3	915.3	839.0	757.8	674.2	605.3	551.2	521.6	519.2
22.5°	1092.5	1085.1	1035.9	952.2	856.3	752.9	652.0	561.0	484.7	430.6	418.3
25°	1176.1	1163.8	1090.0	981.7	861.2	740.6	620.0	514.2	408.4	342.0	329.7
27.5°	1274.5	1247.5	1139.2	1003.9	858.7	716.0	583.1	447.8	310.0	260.8	253.4
30°	1380.3	1333.6	1188.4	1018.7	844.0	676.6	519.2	334.6	223.9	194.4	187.0
32.5°	1500.9	1427.1	1232.7	1021.1	812.0	622.5	410.9	228.8	159.9	142.7	140.2
35°	1646.1	1545.2	1279.5	1011.3	765.2	533.9	285.4	155.0	118.1	113.2	113.2
37.5°	1835.5	1695.3	1331.1	981.7	693.9	413.4	189.5	105.8	103.3	105.8	105.8
40°	2034.8	1867.5	1395.1	937.5	602.8	297.7	120.6	98.4	98.4	100.9	100.9
42.5°	2224.3	2032.4	1476.3	878.4	499.5	191.9	98.4	93.5	91.0	93.5	96.0
45°	2384.2	2187.4	1555.0	814.4	381.4	123.0	96.0	88.6	83.7	86.1	86.1
47.5°	2526.9	2305.5	1599.3	738.2	268.2	96.0	96.0	81.2	76.3	76.3	78.7
50°	2647.5	2399.0	1623.9	649.6	169.8	93.5	86.1	76.3	71.4	71.4	68.9
52.5°	2748.4	2467.9	1621.5	551.2	110.7	91.0	81.2	71.4	64.0	66.4	66.4
55°	2824.7	2522.0	1584.6	423.2	93.5	86.1	78.7	66.4	61.5	66.4	66.4
57.5°	2883.7	2546.6	1515.7	295.3	91.0	78.7	73.8	61.5	56.6	59.1	59.1
60°	2913.2	2534.3	1407.4	184.5	88.6	76.3	68.9	56.6	51.7	49.2	51.7
62.5°	2903.4	2490.0	1252.4	123.0	83.7	71.4	64.0	54.1	46.7	41.8	41.8
65°	2844.4	2391.6	1067.9	103.3	81.2	71.4	61.5	51.7	41.8	39.4	39.4
67.5°	2711.5	2187.4	792.3	96.0	81.2	68.9	59.1	49.2	41.8	36.9	36.9
70°	2438.4	1820.8	381.4	88.6	81.2	71.4	59.1	46.7	39.4	34.4	34.4
72.5°	1973.3	1286.8	98.4	76.3	78.7	71.4	61.5	46.7	36.9	32.0	32.0
75°	1286.8	617.6	83.7	61.5	71.4	66.4	59.1	46.7	36.9	29.5	29.5
77.5°	418.3	86.1	76.3	54.1	64.0	64.0	59.1	46.7	36.9	27.1	27.1
80°	66.4	61.5	66.4	41.8	46.7	54.1	46.7	44.3	34.4	24.6	24.6
82.5°	46.7	56.6	49.2	34.4	41.8	44.3	36.9	29.5	24.6	22.1	22.1
85°	34.4	36.9	29.5	27.1	32.0	36.9	29.5	22.1	19.7	19.7	19.7
87.5°	12.3	14.8	14.8	19.7	24.6	27.1	17.2	12.3	14.8	14.8	14.8
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)