

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: P507689

Luminaire Tested: **VERD-S-CA1-70-740-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507689  
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-CA1-70-740-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 4000K, 1330mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9886 lumens  
Efficiency: N/A  
Efficacy: 134.5 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): 73.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

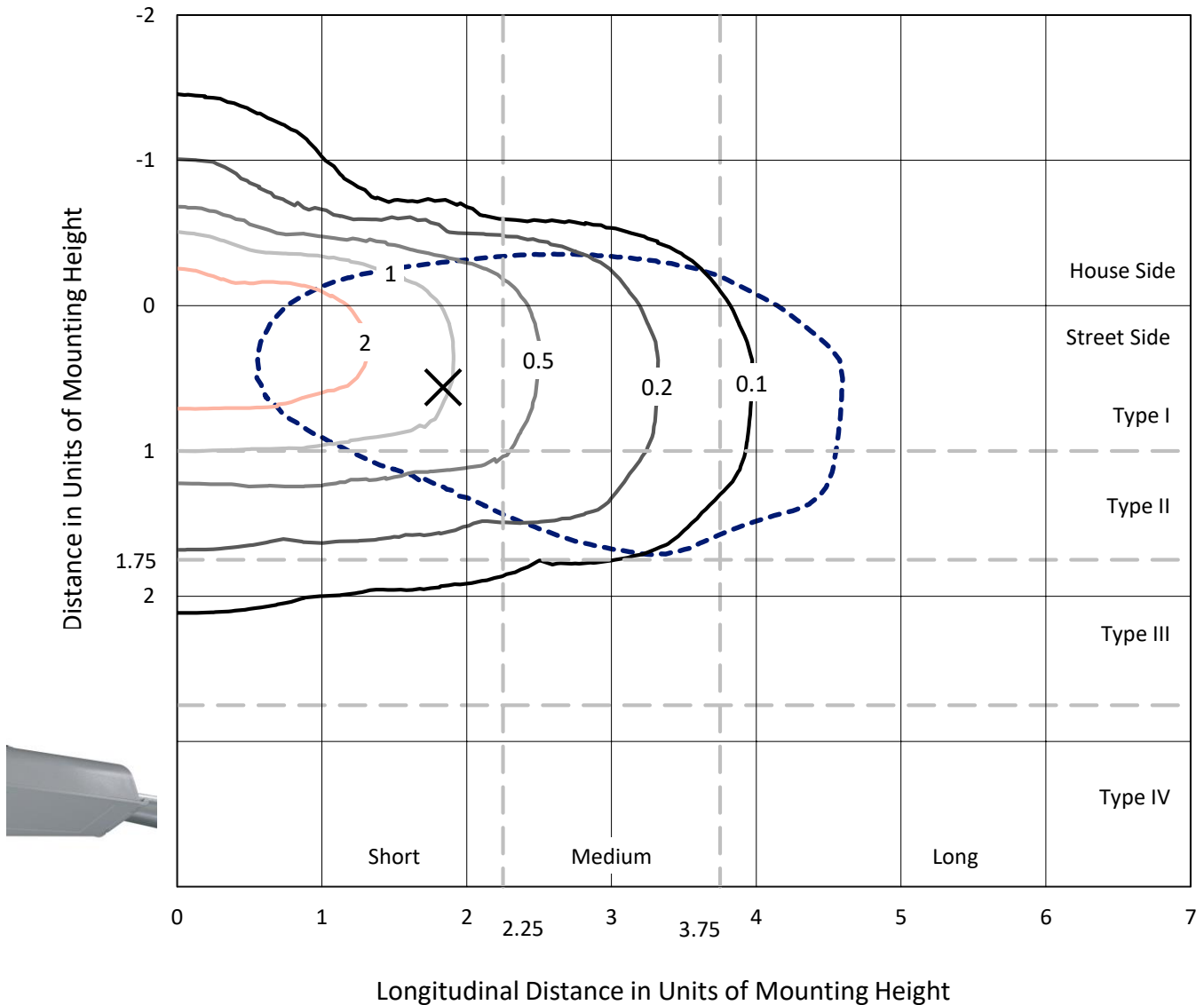


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### Iso-Footcandle Lines of Horizontal Illumination

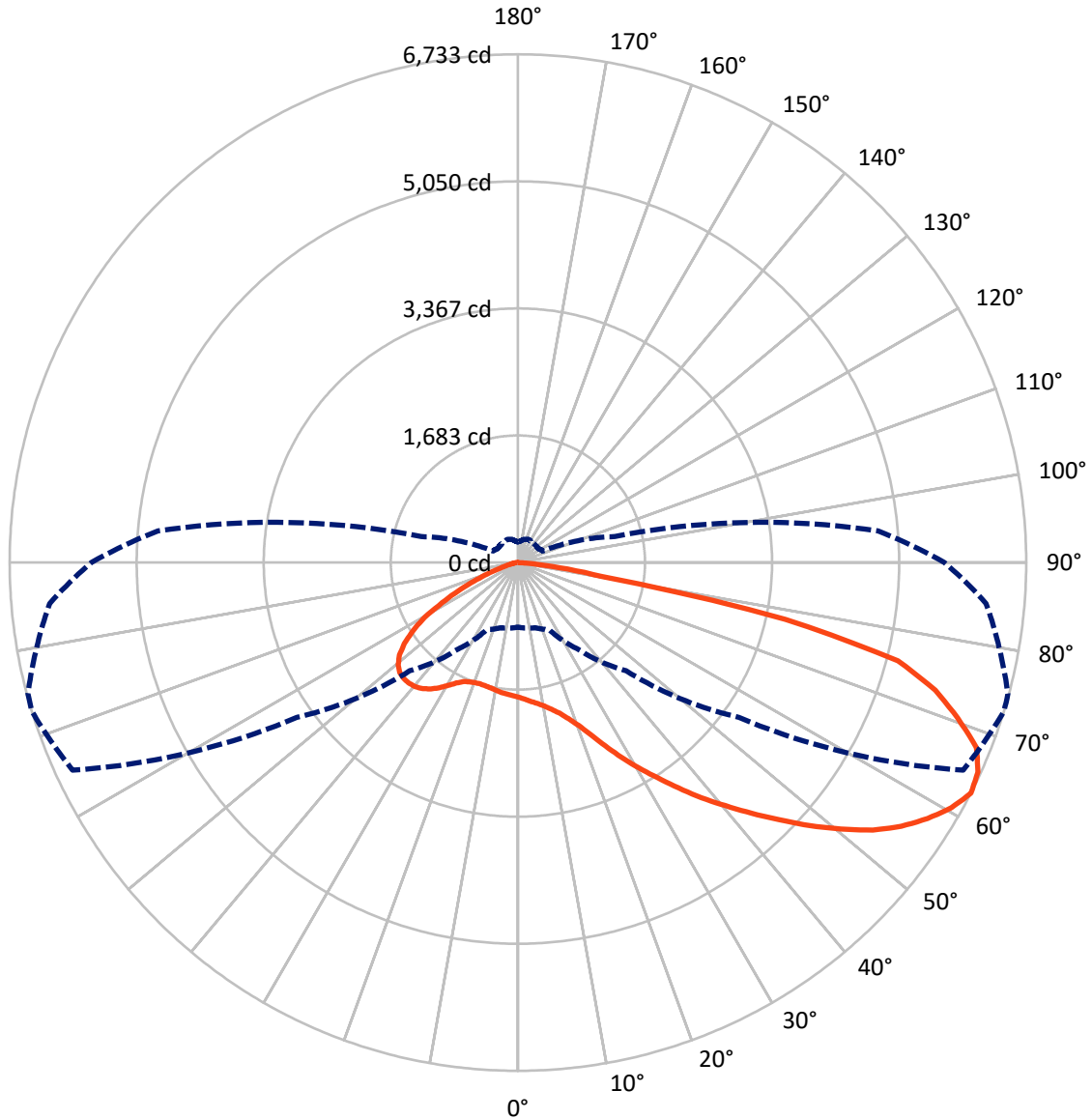
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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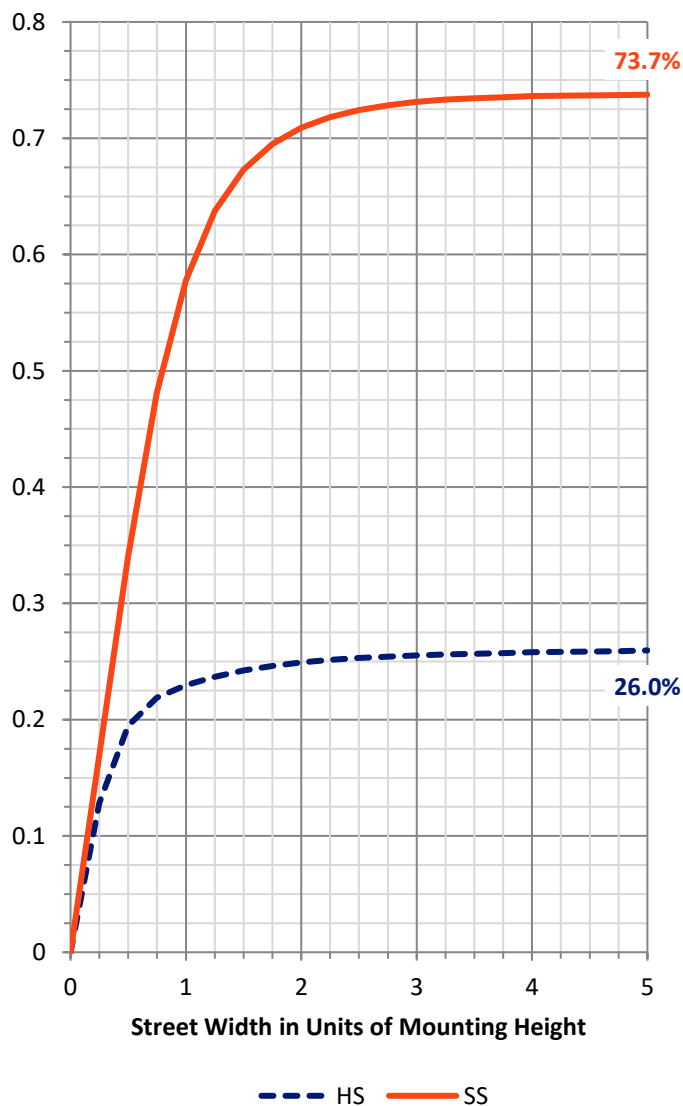
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2604.1	0.0	2604.1
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	7281.9	0.0	7281.9
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	9886.0	0.0	9886.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.6	1.7
10°-20°	527.5	5.3
20°-30°	913.1	9.2
30°-40°	1322.4	13.4
40°-50°	1693.8	17.1
50°-60°	1961.0	19.8
60°-70°	1974.7	20.0
70°-80°	1207.3	12.2
80°-90°	113.7	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°	9886.0	100.0
0°-180°	9886.0	100.0

**Coefficient of Utilization**



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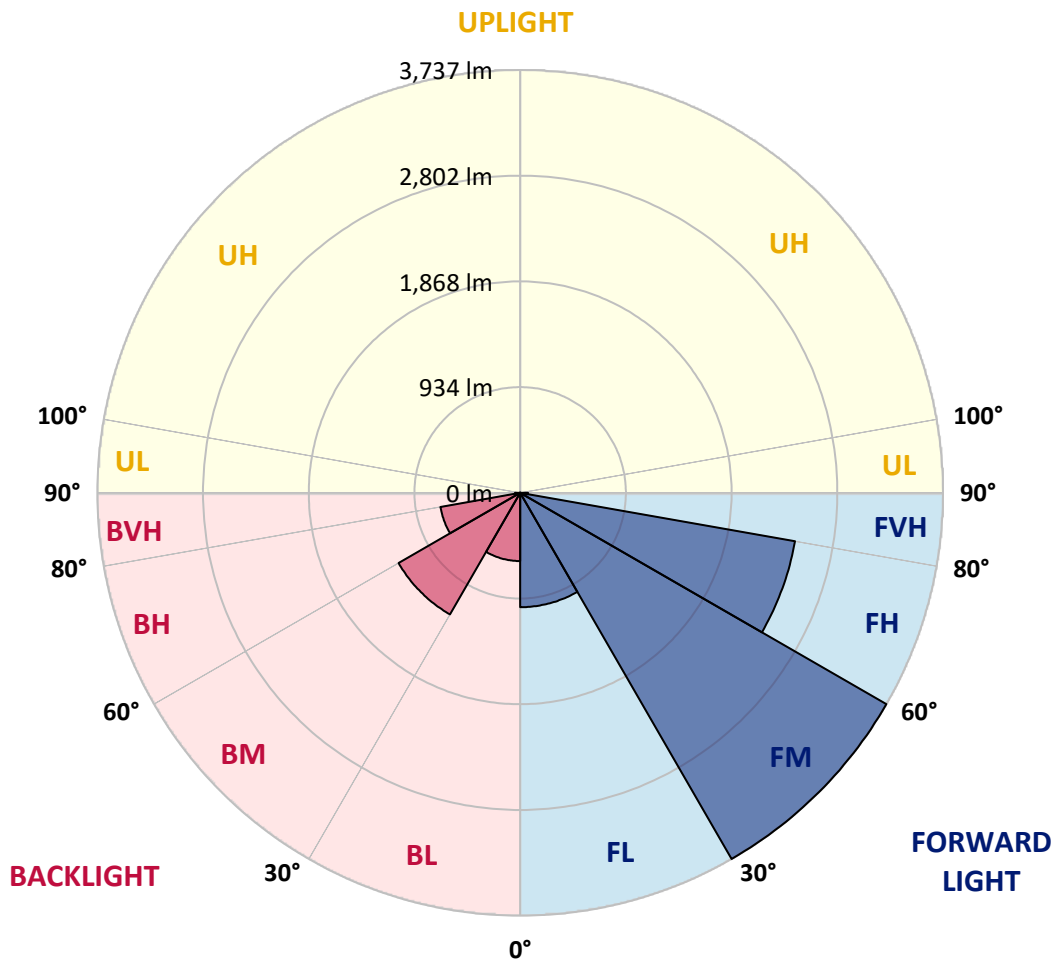
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1010.4	10.2			
FM (30°-60°)	3736.6	37.8			
FH (60°-80°)	2466.2	24.9			G2/5000
FVH (80°-90°)	68.7	0.7			G1/100
BL (0°-30°)	602.8	6.1	B2/1000		
BM (30°-60°)	1240.5	12.5	B2/2500		
BH (60°-80°)	715.8	7.2	B2/1000		G2/1000
BVH (80°-90°)	45.0	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°	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7
2.5°	1877.6	1874.8	1869.3	1866.5	1860.9	1847.0	1838.6	1824.7	1813.6	1810.8	1794.1
5°	1969.6	1972.3	1969.6	1961.2	1950.1	1930.6	1902.7	1866.5	1849.8	1844.2	1816.3
7.5°	2055.9	2055.9	2053.1	2042.0	2030.8	2005.8	1966.8	1925.0	1886.0	1874.8	1838.6
10°	2139.5	2139.5	2131.1	2120.0	2103.3	2072.6	2033.6	1980.7	1933.3	1916.6	1855.3
12.5°	2228.6	2225.9	2214.7	2198.0	2175.7	2150.6	2108.8	2050.3	1997.4	1977.9	1891.6
15°	2298.3	2298.3	2289.9	2278.8	2259.3	2228.6	2189.6	2139.5	2069.8	2053.1	1941.7
17.5°	2359.6	2362.4	2356.8	2356.8	2340.1	2317.8	2284.4	2242.6	2175.7	2150.6	2016.9
20°	2409.7	2406.9	2418.1	2426.4	2432.0	2418.1	2398.6	2370.7	2303.9	2278.8	2114.4
22.5°	2432.0	2437.6	2471.0	2512.8	2537.9	2540.6	2537.9	2535.1	2476.6	2443.1	2248.1
25°	2443.1	2451.5	2501.6	2574.1	2629.8	2671.6	2716.2	2744.0	2691.1	2666.0	2448.7
27.5°	2454.3	2462.6	2521.1	2610.3	2716.2	2816.4	2905.6	2958.5	2919.5	2888.9	2654.9
30°	2434.8	2443.1	2510.0	2635.4	2785.8	2961.3	3086.7	3161.9	3156.3	3136.8	2891.7
32.5°	2393.0	2401.4	2476.6	2632.6	2858.2	3108.9	3248.2	3373.6	3398.7	3379.2	3128.5
35°	2317.8	2328.9	2415.3	2599.1	2891.7	3231.5	3418.2	3602.0	3666.1	3668.9	3387.5
37.5°	2214.7	2220.3	2326.1	2535.1	2902.8	3317.9	3560.2	3822.1	3953.0	3955.8	3652.2
40°	2075.4	2089.3	2220.3	2454.3	2877.7	3379.2	3702.3	4061.7	4234.4	4214.9	3939.1
42.5°	1916.6	1927.8	2055.9	2326.1	2819.2	3415.4	3833.3	4312.4	4540.8	4529.7	4209.3
45°	1774.6	1791.3	1888.8	2147.8	2707.8	3423.7	3947.5	4563.1	4858.4	4844.5	4485.1
47.5°	1585.1	1626.9	1757.8	1989.1	2540.6	3387.5	4050.5	4903.0	5209.4	5189.9	4774.9
50°	1220.2	1234.1	1509.9	1855.3	2351.2	3298.4	4139.7	5217.8	5549.3	5535.4	5078.5
52.5°	1100.4	1111.5	1200.7	1702.1	2161.8	3139.6	4192.6	5621.7	5889.2	5850.2	5351.5
55°	1033.5	1044.7	1094.8	1359.5	1997.4	2900.0	4203.8	5964.4	6165.0	6128.8	5607.8
57.5°	972.2	980.6	1028.0	1164.5	1808.0	2568.5	4145.3	6240.2	6399.0	6362.8	5839.0
60°	908.2	916.5	966.7	1058.6	1574.0	2264.9	3953.0	6454.7	6596.8	6560.6	6048.0
62.5°	855.2	869.2	894.2	980.6	1406.8	2028.1	3577.0	6507.6	6733.3	6719.3	6226.3
65°	791.2	796.7	835.7	905.4	1242.5	1863.7	3173.0	6354.4	6697.1	6722.1	6332.1
67.5°	718.7	721.5	757.7	807.9	1039.1	1702.1	2813.7	6148.3	6552.2	6594.0	6254.1
70°	621.2	624.0	657.4	710.4	860.8	1476.5	2443.1	5844.6	6181.7	6220.7	5953.2
72.5°	518.2	518.2	546.0	604.5	710.4	1223.0	1955.6	5178.8	5783.3	5847.4	5462.9
75°	225.6	234.0	281.4	337.1	459.7	899.8	1334.4	4008.8	5198.3	5242.9	4788.8
77.5°	61.3	61.3	72.4	94.7	133.7	401.2	423.4	1763.4	3621.5	3735.8	3540.7
80°	50.1	50.1	55.7	72.4	91.9	197.8	142.1	568.3	1119.9	1476.5	1835.8
82.5°	27.9	27.9	33.4	41.8	50.1	50.1	50.1	289.7	551.6	587.8	768.9
85°	13.9	16.7	16.7	19.5	19.5	16.7	16.7	58.5	105.9	119.8	183.9
87.5°	5.6	5.6	5.6	5.6	2.8	2.8	5.6	8.4	8.4	11.1	13.9
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°	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7	1785.7
2.5°	1788.5	1780.1	1769.0	1760.6	1743.9	1727.2	1716.1	1707.7	1704.9	1702.1	1702.1
5°	1799.6	1785.7	1755.1	1724.4	1699.3	1677.0	1657.5	1643.6	1638.0	1635.3	1635.3
7.5°	1816.3	1796.8	1746.7	1702.1	1657.5	1624.1	1593.5	1574.0	1562.8	1565.6	1574.0
10°	1824.7	1794.1	1727.2	1682.6	1624.1	1571.2	1535.0	1512.7	1504.3	1504.3	1501.5
12.5°	1847.0	1802.4	1713.3	1643.6	1593.5	1521.0	1479.3	1459.8	1448.6	1431.9	1426.3
15°	1880.4	1824.7	1707.7	1615.8	1537.8	1473.7	1418.0	1390.1	1381.8	1359.5	1359.5
17.5°	1941.7	1863.7	1707.7	1585.1	1484.8	1423.5	1351.1	1312.1	1306.5	1292.6	1289.8
20°	2014.1	1916.6	1721.6	1554.5	1429.1	1348.3	1267.5	1228.5	1214.6	1200.7	1200.7
22.5°	2128.3	1997.4	1746.7	1532.2	1370.6	1270.3	1181.2	1125.5	1103.2	1100.4	1094.8
25°	2303.9	2125.6	1785.7	1509.9	1312.1	1184.0	1094.8	1022.4	986.2	980.6	977.8
27.5°	2496.1	2301.1	1863.7	1490.4	1248.0	1086.5	980.6	902.6	858.0	852.5	849.7
30°	2702.2	2482.1	1966.8	1473.7	1167.2	975.0	855.2	780.0	738.2	727.1	729.9
32.5°	2927.9	2677.2	2078.2	1459.8	1080.9	830.2	718.7	668.6	624.0	604.5	607.3
35°	3148.0	2849.9	2175.7	1448.6	966.7	699.2	612.9	559.9	515.4	490.3	490.3
37.5°	3395.9	3053.2	2256.5	1426.3	844.1	610.1	526.5	473.6	440.2	417.9	417.9
40°	3638.3	3256.6	2320.6	1384.5	707.6	537.7	434.6	403.9	381.7	367.7	362.2
42.5°	3875.0	3460.0	2362.4	1314.9	593.4	451.3	362.2	359.4	362.2	348.2	345.4
45°	4120.2	3660.5	2393.0	1203.5	512.6	373.3	323.2	342.7	362.2	356.6	356.6
47.5°	4387.6	3855.5	2418.1	1022.4	434.6	328.7	320.4	339.9	364.9	367.7	367.7
50°	4643.9	4053.3	2409.7	791.2	381.7	325.9	323.2	328.7	362.2	370.5	364.9
52.5°	4883.5	4223.3	2342.9	576.7	356.6	331.5	331.5	325.9	353.8	359.4	362.2
55°	5125.9	4382.1	2192.4	456.9	342.7	331.5	345.4	331.5	339.9	342.7	348.2
57.5°	5345.9	4543.6	1969.6	409.5	339.9	331.5	345.4	337.1	337.1	325.9	323.2
60°	5515.9	4677.4	1699.3	390.0	331.5	334.3	339.9	339.9	331.5	306.4	298.1
62.5°	5649.6	4788.8	1328.8	364.9	325.9	328.7	325.9	337.1	317.6	281.4	273.0
65°	5724.8	4808.3	1016.8	337.1	312.0	323.2	314.8	312.0	295.3	256.3	239.6
67.5°	5641.2	4671.8	710.4	309.2	295.3	314.8	300.9	289.7	270.2	234.0	211.7
70°	5318.1	4276.2	468.0	273.0	273.0	295.3	284.2	267.4	242.4	214.5	189.4
72.5°	4710.8	3685.6	281.4	225.6	242.4	270.2	264.7	242.4	169.9	130.9	114.2
75°	3983.7	3028.2	181.1	169.9	197.8	242.4	245.2	217.3	144.9	117.0	117.0
77.5°	2894.4	1989.1	105.9	94.7	130.9	195.0	208.9	158.8	156.0	217.3	158.8
80°	1484.8	963.9	80.8	58.5	69.6	144.9	117.0	119.8	236.8	175.5	111.4
82.5°	643.5	381.7	50.1	41.8	44.6	72.4	75.2	197.8	183.9	103.1	69.6
85°	136.5	72.4	27.9	27.9	27.9	33.4	41.8	214.5	114.2	52.9	22.3
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	11.1	11.1	11.1	8.4	8.4
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)