

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: P507729

Luminaire Tested: **VERD-S-CA1-80-730-U-T2**

Issue Date: 3/30/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P507729  
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-CA1-80-730-U-T2  
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 3000K, 1500mA LED AND TYPE II OPTIC  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10684 lumens  
Efficiency: N/A  
Efficacy: 128.6 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): 83.1  
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

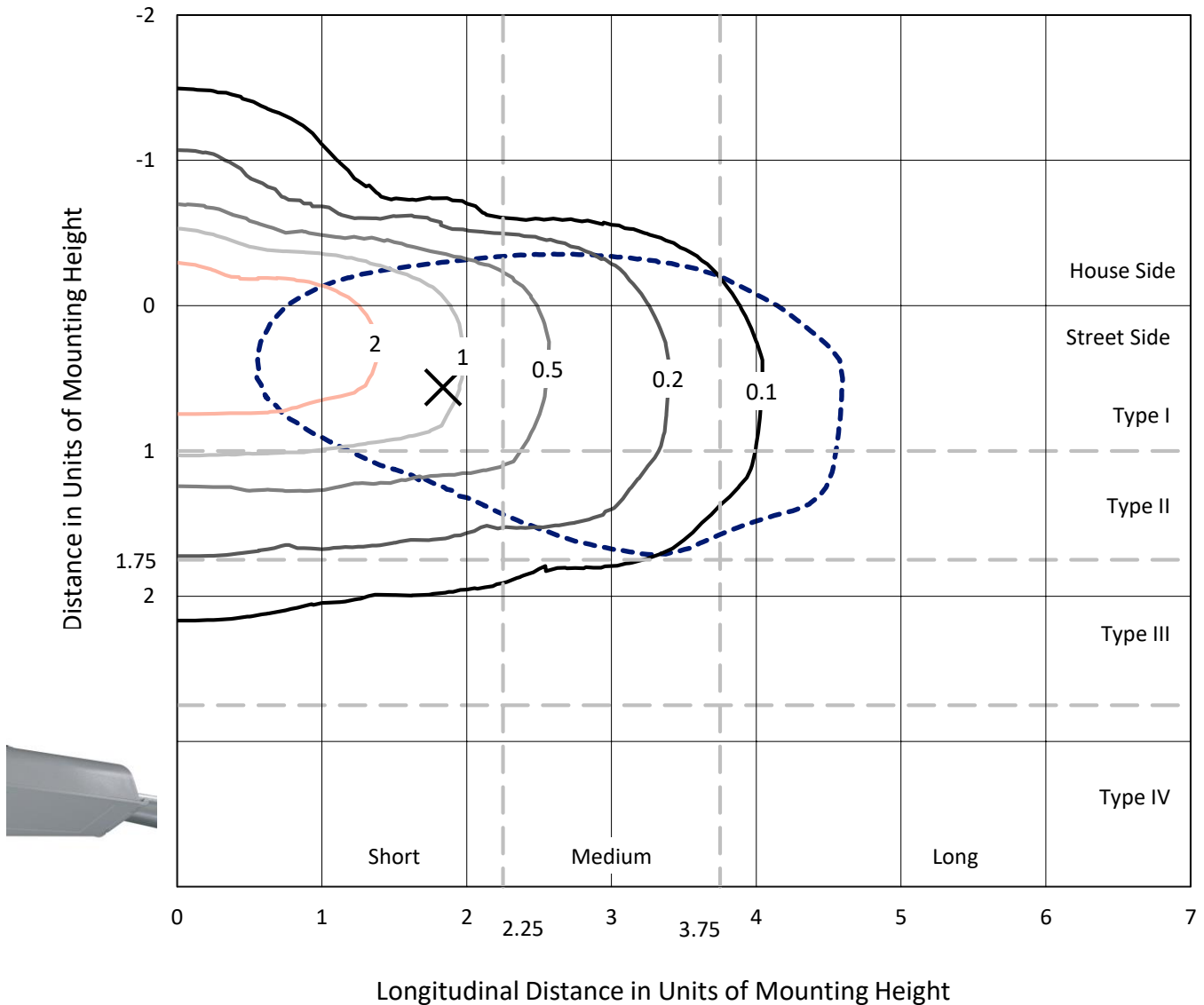


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

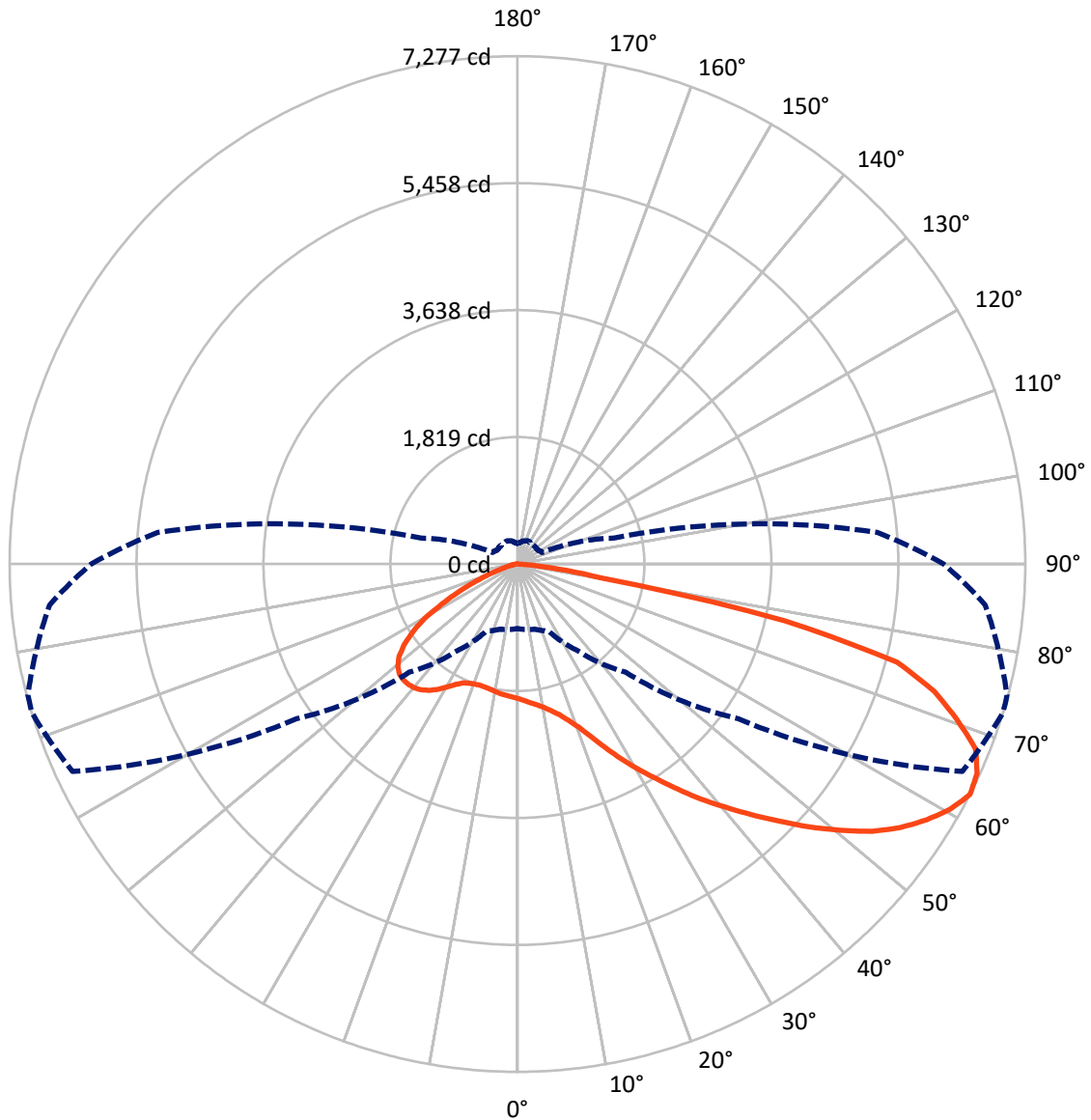


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type II - Short - N/A

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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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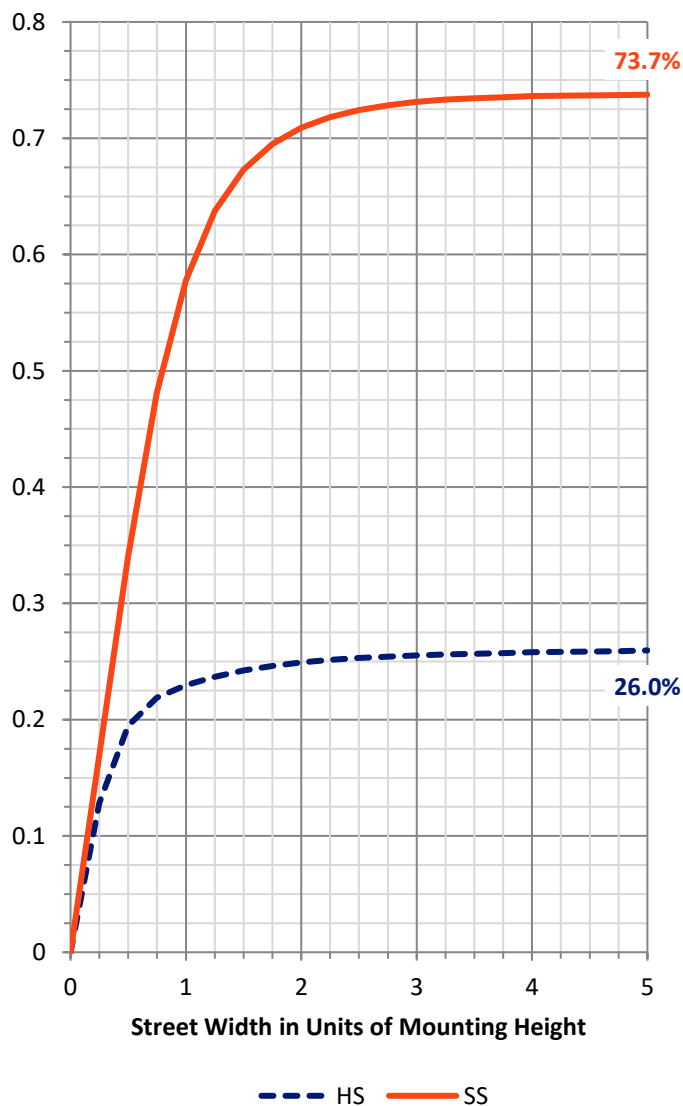
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2814.3	0.0	2814.3
	% Fixture	26.3	0.0	26.3
<b>Street Side</b>	Lumens	7869.7	0.0	7869.7
	% Fixture	73.7	0.0	73.7
<b>Total</b>	Lumens	10684.0	0.0	10684.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.5	1.7
10°-20°	570.1	5.3
20°-30°	986.8	9.2
30°-40°	1429.1	13.4
40°-50°	1830.5	17.1
50°-60°	2119.3	19.8
60°-70°	2134.1	20.0
70°-80°	1304.7	12.2
80°-90°	122.9	1.2
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°	10684.0	100.0
0°-180°	10684.0	100.0

**Coefficient of Utilization**



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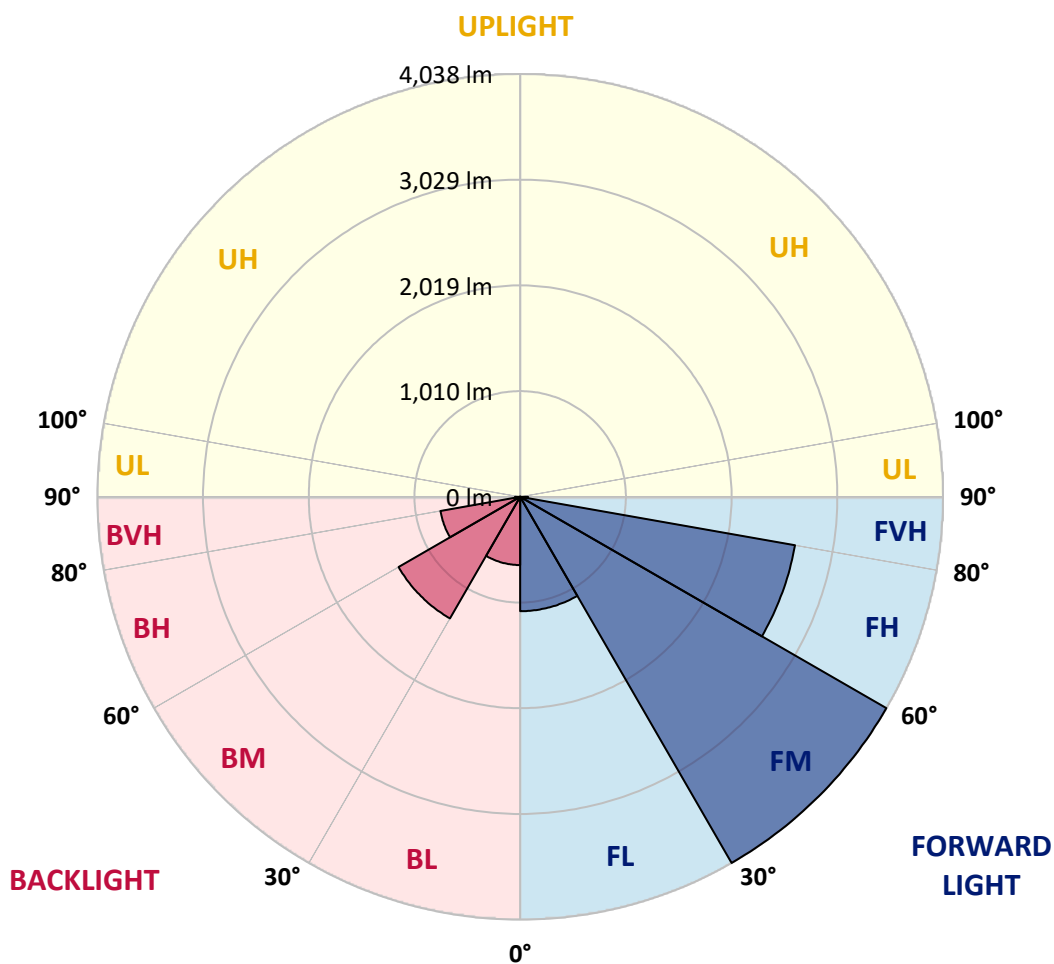
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.0	10.2			
FM (30°-60°)	4038.2	37.8			
FH (60°-80°)	2665.3	24.9			G2/5000
FVH (80°-90°)	74.2	0.7			G1/100
BL (0°-30°)	651.5	6.1	B2/1000		
BM (30°-60°)	1340.7	12.5	B2/2500		
BH (60°-80°)	773.6	7.2	B2/1000		G2/1000
BVH (80°-90°)	48.6	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°	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8
2.5°	2029.2	2026.2	2020.2	2017.1	2011.1	1996.1	1987.0	1972.0	1959.9	1956.9	1938.9
5°	2128.5	2131.6	2128.5	2119.5	2107.5	2086.4	2056.3	2017.1	1999.1	1993.1	1963.0
7.5°	2221.9	2221.9	2218.9	2206.8	2194.8	2167.7	2125.5	2080.4	2038.2	2026.2	1987.0
10°	2312.2	2312.2	2303.2	2291.1	2273.1	2239.9	2197.8	2140.6	2089.4	2071.3	2005.1
12.5°	2408.5	2405.5	2393.5	2375.4	2351.3	2324.2	2279.1	2215.9	2158.6	2137.6	2044.2
15°	2483.8	2483.8	2474.8	2462.7	2441.7	2408.5	2366.4	2312.2	2236.9	2218.9	2098.4
17.5°	2550.0	2553.0	2547.0	2547.0	2529.0	2504.9	2468.7	2423.6	2351.3	2324.2	2179.7
20°	2604.2	2601.2	2613.3	2622.3	2628.3	2613.3	2592.2	2562.1	2489.8	2462.7	2285.1
22.5°	2628.3	2634.3	2670.5	2715.6	2742.7	2745.7	2742.7	2739.7	2676.5	2640.4	2429.6
25°	2640.4	2649.4	2703.6	2781.9	2842.1	2887.2	2935.4	2965.5	2908.3	2881.2	2646.4
27.5°	2652.4	2661.4	2724.7	2821.0	2935.4	3043.8	3140.1	3197.3	3155.2	3122.1	2869.2
30°	2631.3	2640.4	2712.6	2848.1	3010.7	3200.3	3335.8	3417.1	3411.1	3390.0	3125.1
32.5°	2586.2	2595.2	2676.5	2845.1	3088.9	3359.9	3510.4	3645.9	3673.0	3651.9	3381.0
35°	2504.9	2516.9	2610.2	2809.0	3125.1	3492.4	3694.1	3892.8	3962.0	3965.0	3661.0
37.5°	2393.5	2399.5	2513.9	2739.7	3137.1	3585.7	3847.6	4130.6	4272.1	4275.1	3947.0
40°	2242.9	2258.0	2399.5	2652.4	3110.0	3651.9	4001.2	4389.6	4576.2	4555.1	4257.1
42.5°	2071.3	2083.4	2221.9	2513.9	3046.8	3691.1	4142.7	4660.5	4907.4	4895.3	4549.1
45°	1917.8	1935.9	2041.2	2321.2	2926.4	3700.1	4266.1	4931.5	5250.6	5235.6	4847.2
47.5°	1713.1	1758.2	1899.7	2149.6	2745.7	3661.0	4377.5	5298.8	5629.9	5608.9	5160.3
50°	1318.7	1333.7	1631.8	2005.1	2541.0	3564.6	4473.9	5639.0	5997.2	5982.2	5488.4
52.5°	1189.2	1201.3	1297.6	1839.5	2336.3	3393.0	4531.1	6075.5	6364.6	6322.4	5783.5
55°	1117.0	1129.0	1183.2	1469.2	2158.6	3134.1	4543.1	6445.8	6662.6	6623.5	6060.5
57.5°	1050.7	1059.8	1110.9	1258.5	1953.9	2775.8	4479.9	6743.9	6915.5	6876.4	6310.4
60°	981.5	990.5	1044.7	1144.1	1701.0	2447.7	4272.1	6975.7	7129.3	7090.1	6536.2
62.5°	924.3	939.3	966.4	1059.8	1520.4	2191.8	3865.7	7032.9	7276.8	7261.7	6728.8
65°	855.0	861.1	903.2	978.5	1342.8	2014.1	3429.1	6867.3	7237.6	7264.7	6843.2
67.5°	776.8	779.8	818.9	873.1	1123.0	1839.5	3040.8	6644.5	7081.1	7126.2	6758.9
70°	671.4	674.4	710.5	767.7	930.3	1595.7	2640.4	6316.4	6680.7	6722.8	6433.8
72.5°	560.0	560.0	590.1	653.3	767.7	1321.7	2113.5	5596.8	6250.1	6319.4	5903.9
75°	243.9	252.9	304.1	364.3	496.8	972.4	1442.1	4332.4	5617.9	5666.1	5175.3
77.5°	66.2	66.2	78.3	102.4	144.5	433.5	457.6	1905.8	3913.9	4037.3	3826.6
80°	54.2	54.2	60.2	78.3	99.4	213.8	153.5	614.2	1210.3	1595.7	1984.0
82.5°	30.1	30.1	36.1	45.2	54.2	54.2	54.2	313.1	596.1	635.3	830.9
85°	15.1	18.1	18.1	21.1	21.1	18.1	18.1	63.2	114.4	129.5	198.7
87.5°	6.0	6.0	6.0	6.0	3.0	3.0	6.0	9.0	9.0	12.0	15.1
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°	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8	1929.8
2.5°	1932.8	1923.8	1911.8	1902.7	1884.7	1866.6	1854.6	1845.5	1842.5	1839.5	1839.5
5°	1944.9	1929.8	1896.7	1863.6	1836.5	1812.4	1791.3	1776.3	1770.3	1767.3	1767.3
7.5°	1963.0	1941.9	1887.7	1839.5	1791.3	1755.2	1722.1	1701.0	1689.0	1692.0	1701.0
10°	1972.0	1938.9	1866.6	1818.4	1755.2	1698.0	1658.9	1634.8	1625.8	1625.8	1622.7
12.5°	1996.1	1947.9	1851.6	1776.3	1722.1	1643.8	1598.7	1577.6	1565.5	1547.5	1541.5
15°	2032.2	1972.0	1845.5	1746.2	1661.9	1592.6	1532.4	1502.3	1493.3	1469.2	1469.2
17.5°	2098.4	2014.1	1845.5	1713.1	1604.7	1538.5	1460.2	1418.0	1412.0	1396.9	1393.9
20°	2176.7	2071.3	1860.6	1680.0	1544.5	1457.2	1369.9	1327.7	1312.7	1297.6	1297.6
22.5°	2300.1	2158.6	1887.7	1655.9	1481.2	1372.9	1276.5	1216.3	1192.2	1189.2	1183.2
25°	2489.8	2297.1	1929.8	1631.8	1418.0	1279.5	1183.2	1104.9	1065.8	1059.8	1056.7
27.5°	2697.6	2486.8	2014.1	1610.7	1348.8	1174.2	1059.8	975.5	927.3	921.3	918.3
30°	2920.3	2682.5	2125.5	1592.6	1261.5	1053.7	924.3	843.0	797.8	785.8	788.8
32.5°	3164.2	2893.3	2246.0	1577.6	1168.1	897.2	776.8	722.6	674.4	653.3	656.3
35°	3402.1	3079.9	2351.3	1565.5	1044.7	755.7	662.3	605.1	557.0	529.9	529.9
37.5°	3670.0	3299.7	2438.6	1541.5	912.2	659.3	569.0	511.8	475.7	451.6	451.6
40°	3931.9	3519.5	2507.9	1496.3	764.7	581.1	469.7	436.5	412.5	397.4	391.4
42.5°	4187.8	3739.2	2553.0	1421.0	641.3	487.7	391.4	388.4	391.4	376.3	373.3
45°	4452.8	3956.0	2586.2	1300.6	554.0	403.4	349.2	370.3	391.4	385.4	385.4
47.5°	4741.8	4166.8	2613.3	1104.9	469.7	355.3	346.2	367.3	394.4	397.4	397.4
50°	5018.8	4380.5	2604.2	855.0	412.5	352.2	349.2	355.3	391.4	400.4	394.4
52.5°	5277.7	4564.2	2532.0	623.2	385.4	358.3	358.3	352.2	382.4	388.4	391.4
55°	5539.6	4735.8	2369.4	493.7	370.3	358.3	373.3	358.3	367.3	370.3	376.3
57.5°	5777.5	4910.4	2128.5	442.6	367.3	358.3	373.3	364.3	364.3	352.2	349.2
60°	5961.1	5054.9	1836.5	421.5	358.3	361.3	367.3	367.3	358.3	331.2	322.1
62.5°	6105.6	5175.3	1436.1	394.4	352.2	355.3	352.2	364.3	343.2	304.1	295.0
65°	6186.9	5196.4	1098.9	364.3	337.2	349.2	340.2	337.2	319.1	277.0	258.9
67.5°	6096.6	5048.9	767.7	334.2	319.1	340.2	325.2	313.1	292.0	252.9	228.8
70°	5747.4	4621.4	505.8	295.0	295.0	319.1	307.1	289.0	261.9	231.8	204.7
72.5°	5091.0	3983.1	304.1	243.9	261.9	292.0	286.0	261.9	183.7	141.5	123.4
75°	4305.3	3272.6	195.7	183.7	213.8	261.9	264.9	234.8	156.6	126.4	126.4
77.5°	3128.1	2149.6	114.4	102.4	141.5	210.7	225.8	171.6	168.6	234.8	171.6
80°	1604.7	1041.7	87.3	63.2	75.3	156.6	126.4	129.5	255.9	189.7	120.4
82.5°	695.5	412.5	54.2	45.2	48.2	78.3	81.3	213.8	198.7	111.4	75.3
85°	147.5	78.3	30.1	30.1	30.1	36.1	45.2	231.8	123.4	57.2	24.1
87.5°	15.1	15.1	15.1	15.1	15.1	15.1	12.0	12.0	12.0	9.0	9.0
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)