

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: P321547

Luminaire Tested: **GAN-SA3A-730-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321547  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA3A-730-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9966 lumens  
Efficiency: N/A  
Efficacy: 103.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

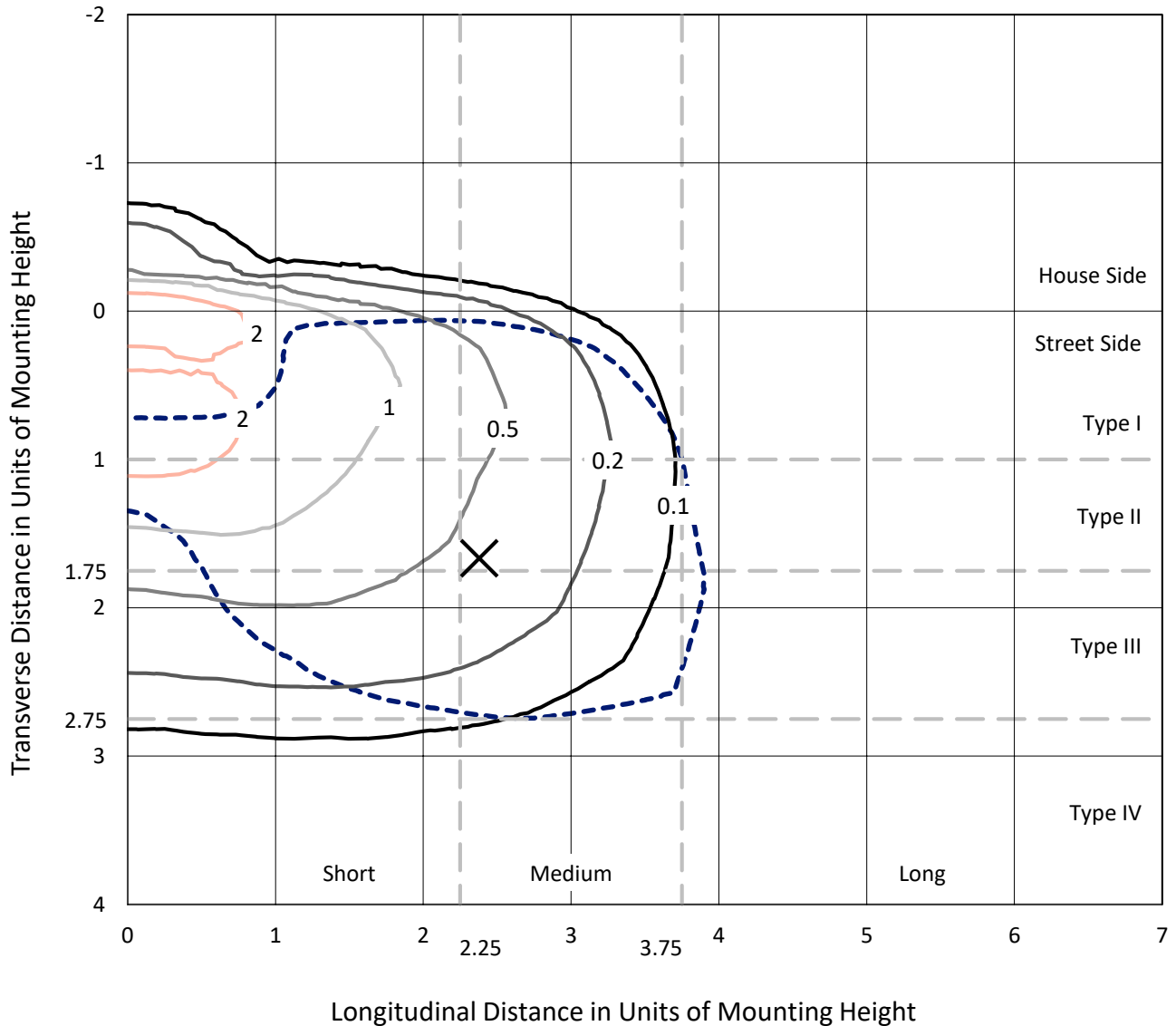
Input Watts (W): 96  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

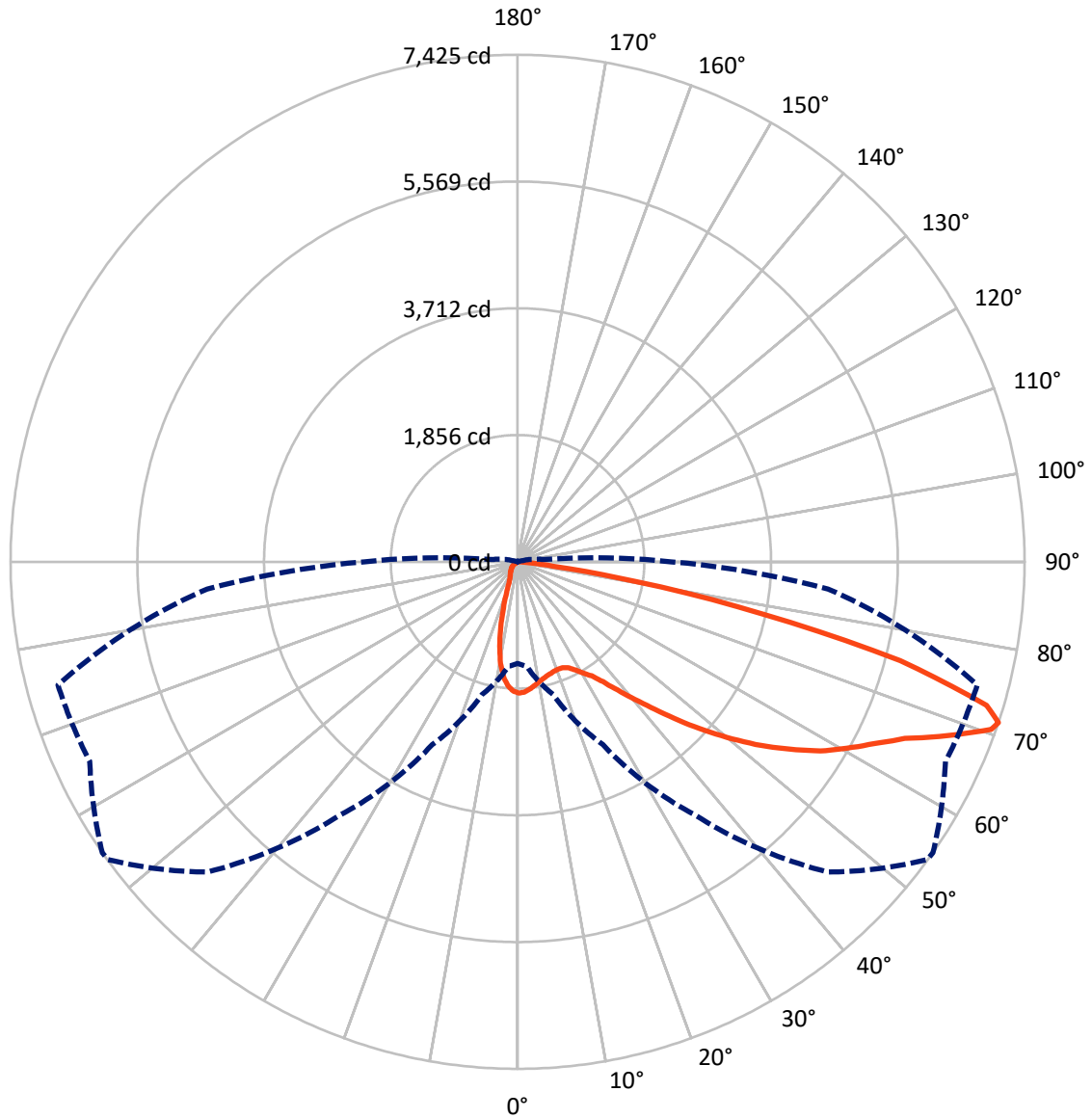
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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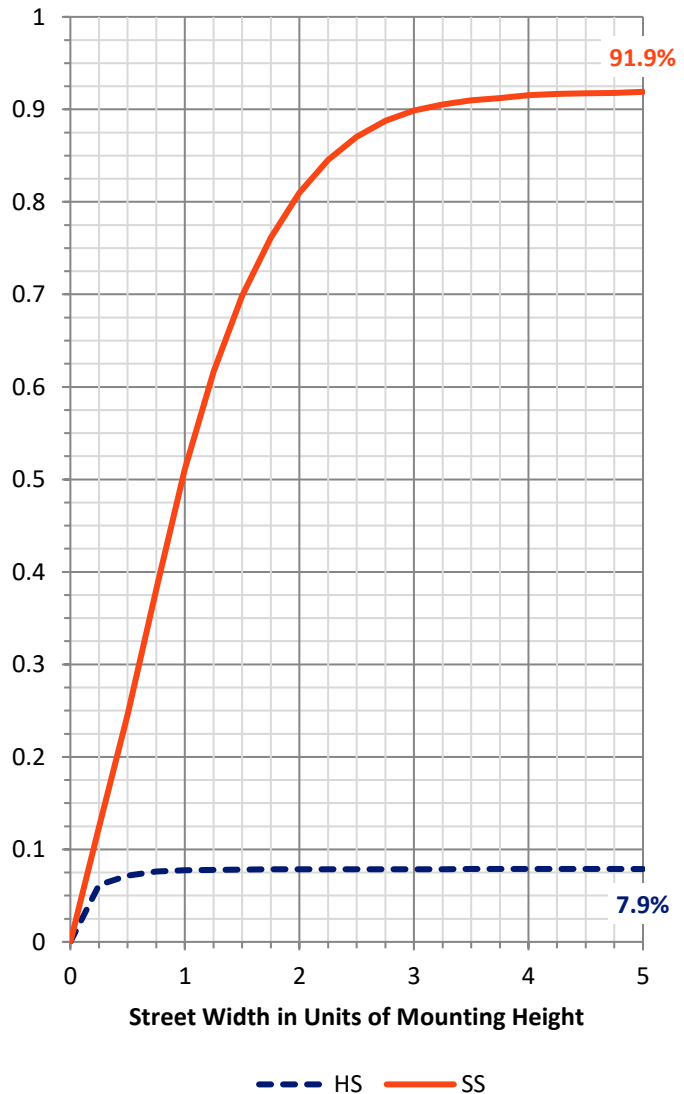
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	789.0	0.0	789.0
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	9177.0	0.0	9177.0
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	9966.0	0.0	9966.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.9	1.6
10°-20°	370.0	3.7
20°-30°	594.5	6.0
30°-40°	1010.1	10.1
40°-50°	1567.9	15.7
50°-60°	2108.0	21.2
60°-70°	2578.7	25.9
70°-80°	1507.7	15.1
80°-90°	65.2	0.7
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°	9966.0	100.0
0°-180°	9966.0	100.0

**Coefficient of Utilization**

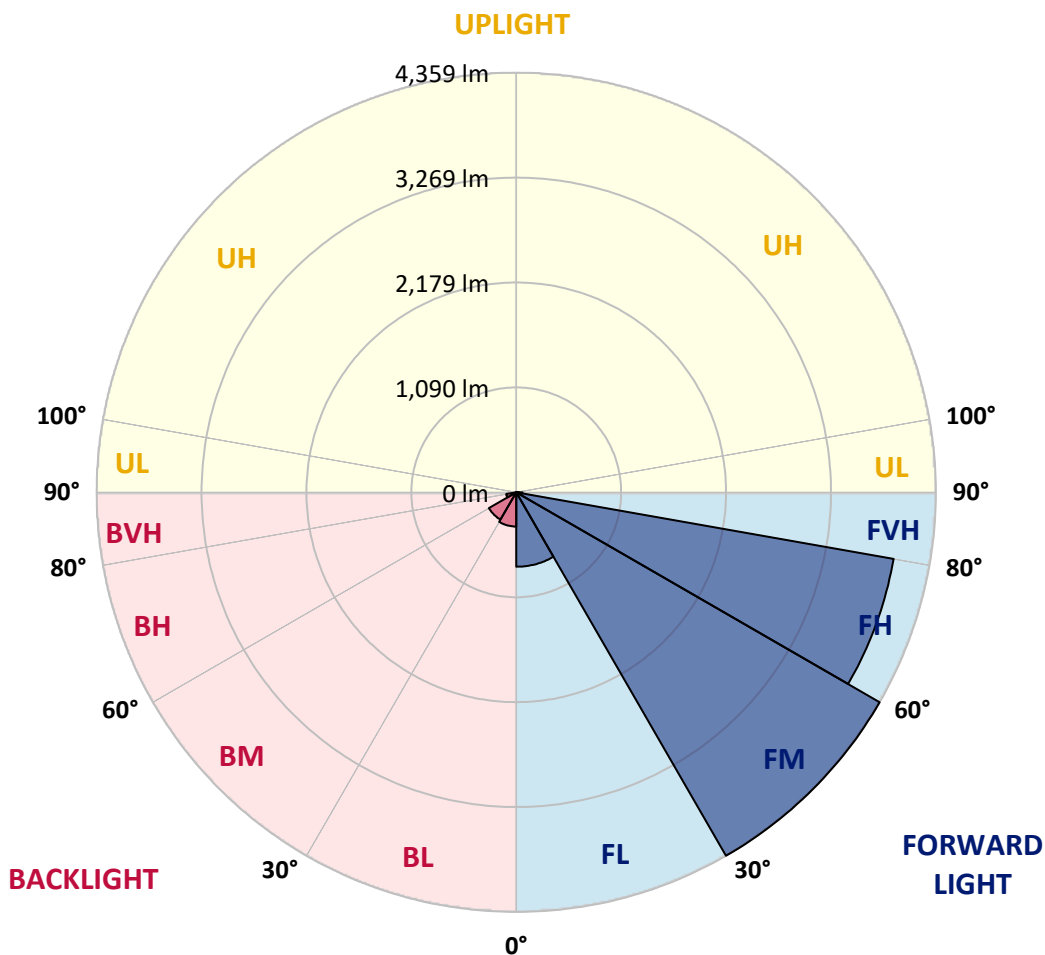


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.2	7.8			
FM (30°-60°)	4358.8	43.7			
FH (60°-80°)	3980.8	39.9			G2/5000
FVH (80°-90°)	64.1	0.6			G1/100
BL (0°-30°)	355.1	3.6	B1/500		
BM (30°-60°)	327.2	3.3	B1/1000		
BH (60°-80°)	105.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0
2.5°	1865.6	1867.8	1875.9	1879.5	1888.0	1902.3	1909.4	1909.9	1921.5	1926.0	1929.6
5°	1733.6	1747.0	1760.4	1774.8	1800.7	1835.2	1869.2	1872.3	1909.9	1937.6	1952.4
7.5°	1619.9	1632.0	1648.1	1670.9	1707.6	1761.8	1818.6	1825.3	1896.5	1959.6	1992.7
10°	1503.1	1513.0	1536.2	1569.8	1620.4	1692.9	1769.4	1780.6	1884.4	1989.1	2047.3
12.5°	1378.3	1384.1	1412.3	1460.6	1534.9	1627.1	1727.8	1742.5	1876.8	2023.1	2111.7
15°	1283.4	1286.1	1312.9	1363.1	1448.1	1568.0	1695.5	1713.4	1878.6	2063.8	2182.0
17.5°	1259.2	1260.6	1274.9	1309.4	1384.5	1515.2	1670.0	1692.0	1883.9	2103.7	2252.7
20°	1357.2	1347.8	1333.1	1327.7	1359.9	1483.4	1654.8	1679.4	1891.1	2139.0	2316.2
22.5°	1626.2	1598.4	1537.1	1455.2	1405.6	1485.7	1658.9	1683.5	1913.9	2182.4	2389.6
25°	2025.3	1986.9	1882.6	1721.5	1566.7	1550.1	1692.4	1717.5	1958.2	2234.3	2459.9
27.5°	2479.6	2441.5	2314.0	2084.0	1820.0	1677.6	1769.4	1792.7	2024.0	2280.4	2513.6
30°	2914.5	2903.8	2753.4	2492.1	2138.6	1884.4	1868.7	1888.4	2072.8	2308.2	2556.1
32.5°	3283.3	3266.2	3145.4	2891.2	2503.3	2132.7	1985.5	1991.3	2109.5	2344.0	2611.6
35°	3625.1	3604.1	3498.0	3257.7	2877.4	2436.1	2165.4	2156.9	2189.6	2416.0	2692.1
37.5°	3923.6	3942.9	3825.2	3596.5	3213.0	2751.6	2408.0	2382.4	2314.9	2533.3	2808.9
40°	4173.3	4173.3	4112.0	3921.4	3575.5	3077.9	2682.3	2648.7	2503.3	2714.0	2957.0
42.5°	4263.3	4282.5	4305.3	4197.5	3899.9	3417.1	2987.9	2953.0	2768.6	2970.5	3144.1
45°	4268.6	4299.1	4415.9	4415.4	4193.0	3754.0	3332.5	3315.9	3108.7	3299.8	3375.9
47.5°	4193.0	4231.0	4423.5	4532.6	4425.3	4067.7	3709.3	3688.7	3508.3	3703.4	3618.4
50°	4076.2	4118.3	4342.0	4578.7	4583.2	4340.7	4106.2	4075.3	3948.2	4164.8	3869.0
52.5°	3867.2	3948.7	4269.1	4589.5	4687.0	4576.5	4483.9	4470.4	4440.5	4609.2	4068.6
55°	3420.2	3510.6	4086.1	4593.1	4783.2	4785.5	4837.8	4841.4	4901.8	5024.4	4217.2
57.5°	3209.0	3260.0	3766.5	4610.1	4926.0	5022.7	5198.5	5226.3	5319.8	5418.7	4386.8
60°	3076.1	3136.5	3609.0	4586.8	5150.2	5333.7	5532.8	5542.2	5642.4	5825.5	4616.3
62.5°	2970.0	3029.5	3509.7	4497.3	5402.1	5707.8	5859.5	5860.4	5935.5	6310.1	4877.2
65°	2708.2	2758.3	3308.8	4396.6	5568.6	6077.8	6238.9	6233.1	6294.4	6821.1	5180.2
67.5°	2329.6	2368.1	2898.4	4014.9	5505.9	6414.4	6811.7	6792.5	6718.2	7262.8	5299.2
70°	1801.2	1815.0	2284.4	3345.9	4918.8	6543.7	7365.3	7355.4	6978.2	7183.6	4862.9
71°	1488.8	1534.5	2013.3	2953.0	4525.5	6424.2	7419.0	7424.8	6912.9	6967.9	4562.6
72.5°	864.6	903.5	1459.3	2267.9	3842.2	5925.7	7140.6	7182.7	6607.7	6337.8	3897.2
75°	185.3	198.2	541.0	1097.7	2113.5	4153.2	5636.2	5786.1	5385.6	4311.6	2348.9
77.5°	128.9	139.2	231.8	498.1	698.5	2052.2	3501.2	3670.3	3217.5	1620.4	751.8
80°	102.0	113.7	180.8	246.1	188.8	661.8	1640.1	1743.4	1073.1	361.6	126.6
82.5°	56.8	67.6	141.0	132.9	72.5	125.7	459.1	519.1	214.8	72.9	30.0
85°	16.6	20.1	90.8	96.7	30.9	24.2	78.3	97.1	40.7	19.2	13.4
87.5°	0.0	0.0	43.9	37.1	8.9	3.6	7.2	8.1	8.1	8.1	8.9
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°	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0	1922.0
2.5°	1929.6	1932.7	1921.5	1906.8	1891.1	1871.9	1851.7	1836.1	1835.6	1828.0	1820.4
5°	1953.3	1951.5	1920.6	1873.6	1818.2	1760.4	1705.4	1643.2	1622.6	1597.1	1588.6
7.5°	1997.2	1984.6	1919.3	1816.4	1694.7	1573.8	1449.0	1323.2	1269.5	1221.2	1212.7
10°	2052.2	2028.5	1910.8	1730.5	1507.2	1284.3	1095.9	925.0	849.8	792.1	789.4
12.5°	2109.5	2073.2	1887.1	1600.7	1261.5	948.2	731.2	562.9	500.3	460.0	463.6
15°	2169.4	2115.3	1836.1	1425.7	981.8	643.5	449.3	350.4	325.3	315.0	317.7
17.5°	2230.7	2144.4	1764.9	1214.9	705.7	415.3	311.0	283.3	283.3	285.5	286.4
20°	2284.0	2160.0	1660.2	978.7	478.4	302.5	272.1	268.0	270.3	273.9	274.3
22.5°	2336.8	2160.9	1523.7	739.3	334.7	264.9	259.1	257.3	258.7	262.7	263.1
25°	2379.8	2150.2	1352.8	525.8	267.2	249.7	247.0	246.1	247.0	251.9	251.9
27.5°	2397.2	2111.3	1144.2	369.6	239.4	232.7	231.8	232.7	234.0	237.6	238.1
30°	2399.0	2043.2	916.9	267.6	217.0	209.9	211.7	214.8	213.5	212.6	213.5
32.5°	2403.5	1964.5	695.4	220.2	198.2	187.1	184.8	184.8	179.4	176.3	174.5
35°	2418.2	1871.9	504.3	197.8	179.0	166.0	157.5	147.7	137.4	132.0	130.7
37.5°	2441.5	1774.8	361.1	183.0	162.0	147.2	131.1	113.7	98.9	94.9	94.9
40°	2484.0	1674.5	267.2	171.4	148.6	130.2	106.1	83.2	69.8	67.6	67.6
42.5°	2551.2	1568.9	213.0	161.1	136.9	112.8	81.0	60.4	50.6	49.2	48.8
45°	2621.0	1452.6	186.2	151.3	124.4	92.6	60.0	44.7	38.9	37.6	37.6
47.5°	2690.8	1328.6	173.2	141.9	112.3	72.0	44.7	35.4	32.7	32.7	33.1
50°	2749.8	1199.3	163.8	131.6	96.7	54.6	35.4	30.0	29.1	30.9	31.3
52.5°	2764.6	1072.2	152.1	118.6	77.4	41.6	29.1	26.4	26.4	26.4	26.4
55°	2755.7	973.7	136.9	102.5	57.3	33.1	25.1	23.3	22.8	22.8	22.8
57.5°	2786.1	915.6	109.6	79.7	41.2	26.8	21.9	20.6	19.7	19.2	19.2
60°	2847.4	877.5	78.3	57.3	30.9	22.4	18.8	17.5	16.1	15.2	15.2
62.5°	2928.8	844.4	58.2	42.5	23.7	17.9	15.7	14.3	12.5	11.6	11.6
65°	2991.5	785.3	44.3	31.8	17.9	14.3	12.1	11.6	8.9	8.1	7.6
67.5°	2895.7	655.6	35.8	23.3	13.4	11.2	9.4	8.9	5.4	4.5	4.5
70°	2483.6	456.4	28.6	17.0	9.8	8.9	7.6	5.8	4.0	3.6	3.6
71°	2252.2	381.3	26.0	14.3	8.5	8.5	7.2	4.9	3.6	3.1	3.1
72.5°	1871.0	270.7	21.9	11.2	7.6	8.9	7.6	4.5	3.6	3.1	2.7
75°	1086.1	113.2	15.2	7.6	5.8	10.7	9.8	4.0	2.7	2.2	2.2
77.5°	326.7	41.6	8.5	4.9	4.5	9.4	11.2	3.6	1.3	0.4	0.4
80°	59.5	17.9	5.4	3.1	3.1	5.8	8.5	1.8	0.0	0.0	0.0
82.5°	21.0	8.9	3.1	1.8	1.3	2.7	4.0	0.0	0.0	0.0	0.0
85°	12.1	6.3	1.8	0.9	0.0	0.4	0.9	0.0	0.0	0.0	0.0
87.5°	8.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	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)