

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: P484901

Luminaire Tested: **IFLD-S-SA2D-827-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484901  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-827-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

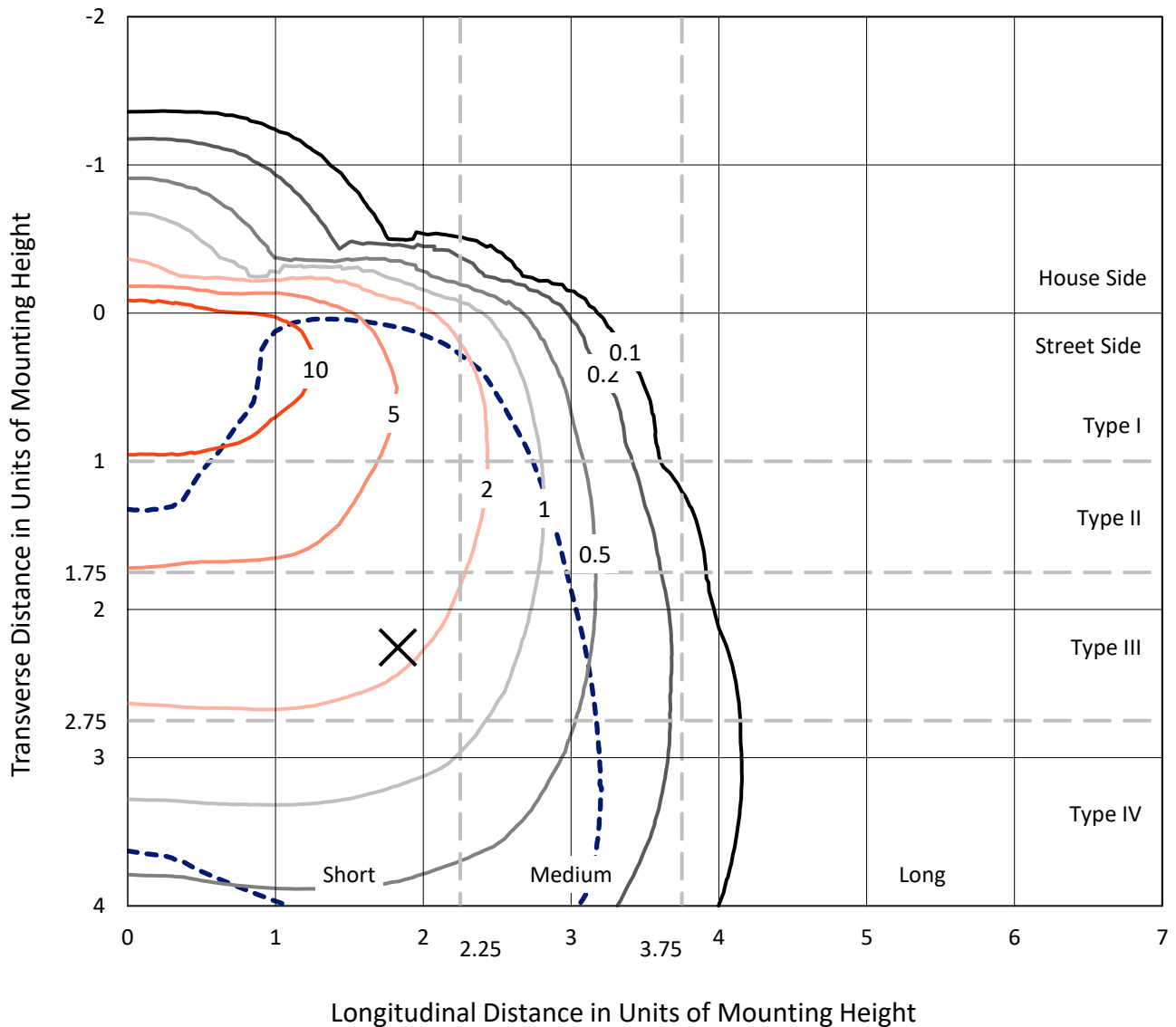
Lumens per Lamp: N/A  
Luminaire Lumens: 9497.5 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9  
Input Voltage (V): 120  
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

REPORT NUMBER: P484901  
 CATALOG NUMBER: IFLD-S-SA2D-827-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

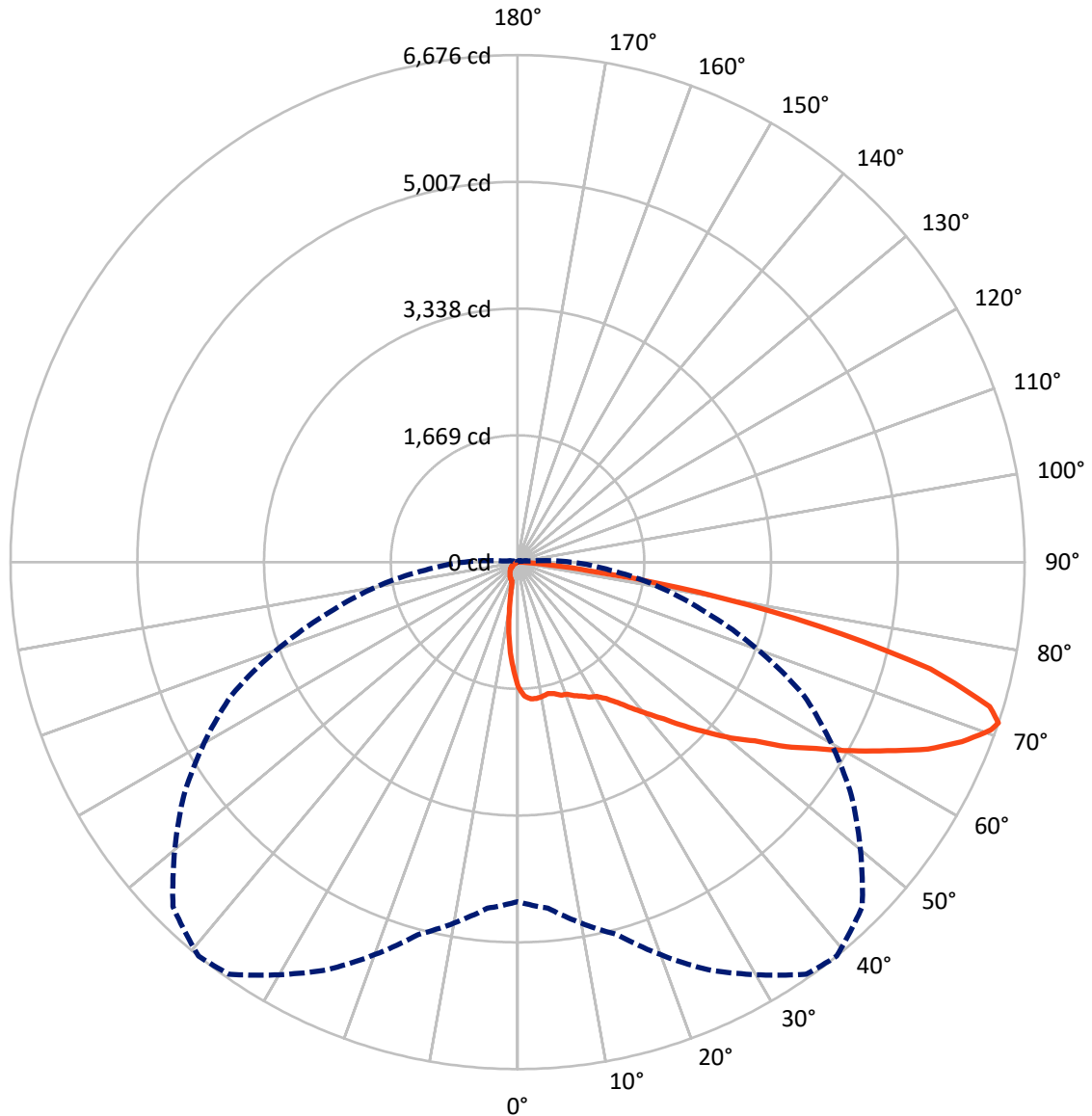
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484901  
CATALOG NUMBER: IFLD-S-SA2D-827-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484901  
 CATALOG NUMBER: IFLD-S-SA2D-827-U-SL4-HSS

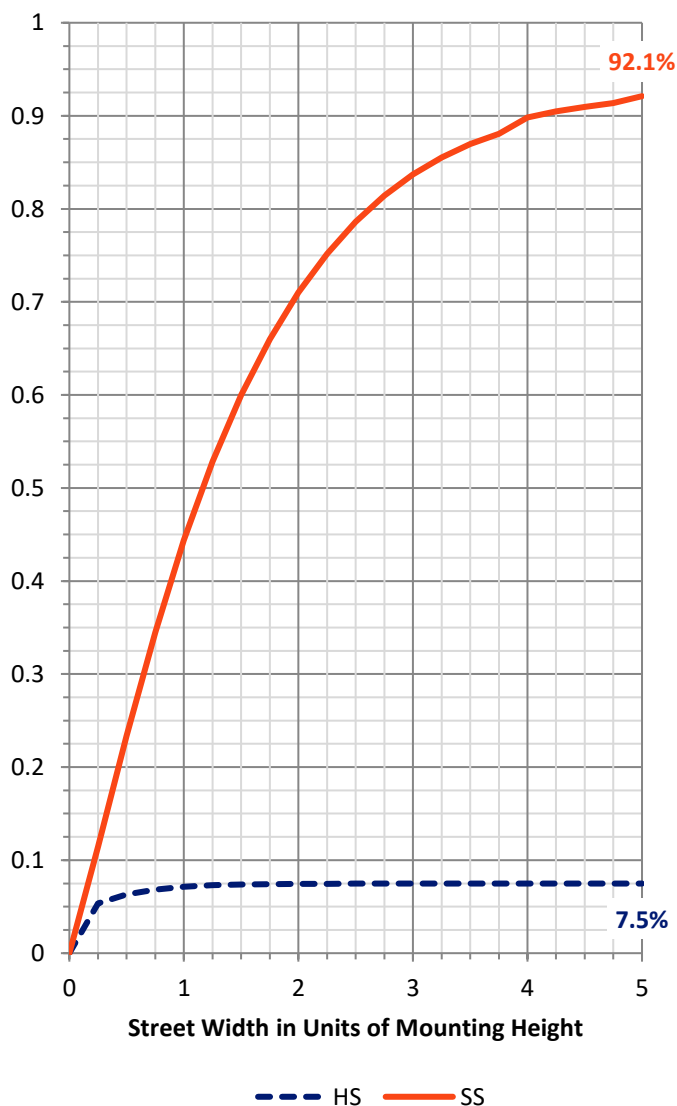
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	715.0	0.0	715.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	8782.5	0.0	8782.5
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	9497.5	0.0	9497.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	1.5
10°-20°	340.2	3.6
20°-30°	546.1	5.7
30°-40°	836.0	8.8
40°-50°	1341.9	14.1
50°-60°	1971.0	20.8
60°-70°	2482.4	26.1
70°-80°	1656.7	17.4
80°-90°	185.1	1.9
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°	9497.5	100.0
0°-180°	9497.5	100.0

**Coefficient of Utilization**



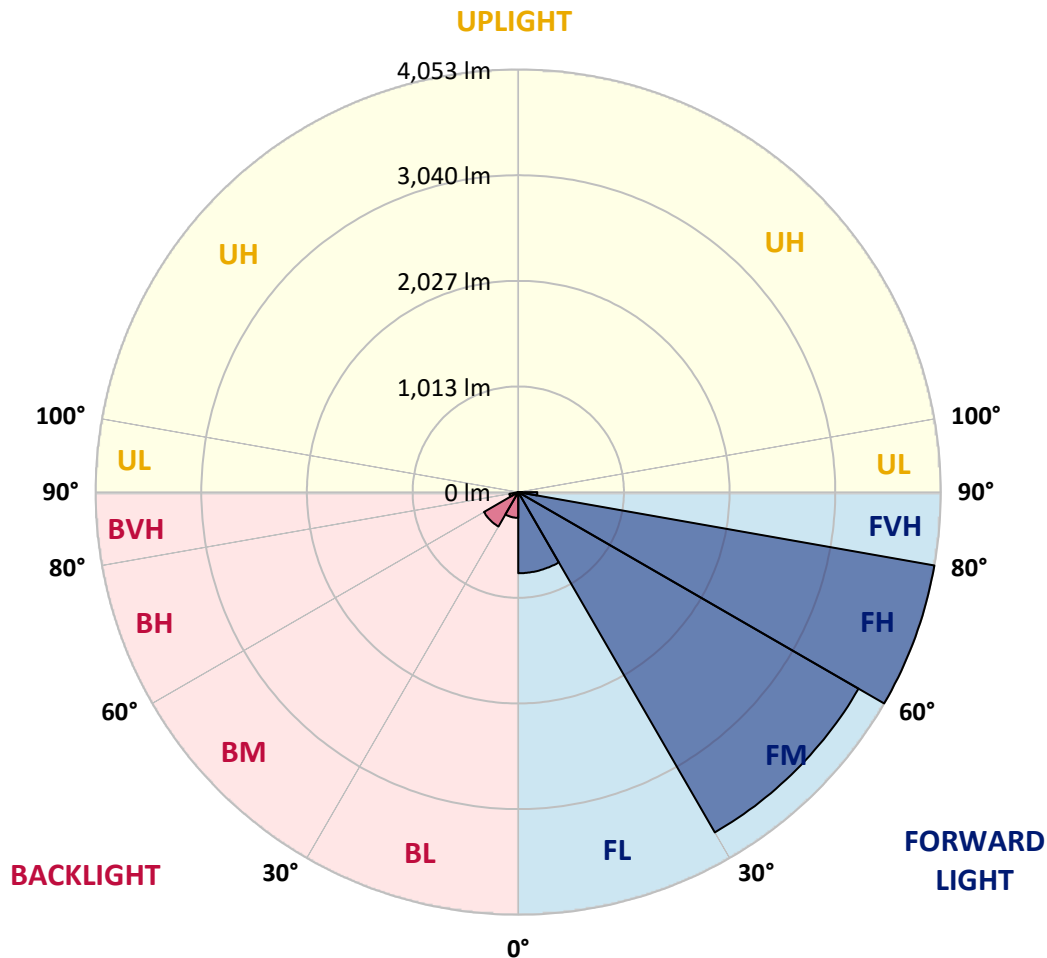
REPORT NUMBER: P484901  
 CATALOG NUMBER: IFLD-S-SA2D-827-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	777.7	8.2			
FM (30°-60°)	3768.8	39.7			
FH (60°-80°)	4053.0	42.7			G2/5000
FVH (80°-90°)	183.1	1.9			G2/225
BL (0°-30°)	246.9	2.6	B1/500		
BM (30°-60°)	380.1	4.0	B1/1000		
BH (60°-80°)	86.1	0.9	B0/110		G0/110
BVH (80°-90°)	2.0	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 IV Short





REPORT NUMBER: P484901

CATALOG NUMBER: IFLD-S-SA2D-827-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1
2.5°	1781.4	1798.9	1781.4	1773.9	1766.5	1767.7	1747.8	1751.5	1727.9	1696.7	1671.8
5°	1837.5	1861.2	1842.5	1833.7	1832.5	1808.8	1798.9	1775.2	1746.5	1698.0	1668.1
7.5°	1832.5	1827.5	1836.2	1828.8	1812.6	1812.6	1801.4	1767.7	1739.1	1684.3	1633.2
10°	1795.1	1810.1	1802.6	1793.9	1797.6	1798.9	1777.7	1754.0	1745.3	1690.5	1607.0
12.5°	1791.4	1766.5	1793.9	1795.1	1778.9	1777.7	1775.2	1769.0	1741.6	1691.7	1613.2
15°	1778.9	1769.0	1796.4	1797.6	1801.4	1797.6	1801.4	1796.4	1769.0	1740.3	1640.7
17.5°	1788.9	1777.7	1816.3	1835.0	1826.3	1843.7	1837.5	1815.1	1791.4	1757.8	1666.8
20°	1791.4	1807.6	1849.9	1857.4	1884.8	1856.2	1854.9	1831.3	1816.3	1780.2	1683.0
22.5°	1837.5	1845.0	1897.3	1913.5	1914.7	1911.0	1879.8	1852.4	1846.2	1801.4	1686.7
25°	1907.2	1933.4	1957.1	1967.0	1970.8	1953.3	1920.9	1886.1	1871.1	1842.5	1725.4
27.5°	2030.6	2014.4	2035.6	2050.5	2008.1	2014.4	1973.3	1943.4	1922.2	1897.3	1770.2
30°	2140.2	2125.2	2126.5	2124.0	2087.9	2054.2	2043.0	1990.7	1964.5	1974.5	1840.0
32.5°	2238.6	2206.2	2233.6	2221.2	2153.9	2143.9	2135.2	2069.2	2074.2	2120.3	1944.6
35°	2329.6	2318.3	2340.8	2318.3	2273.5	2271.0	2262.3	2205.0	2232.4	2298.4	2124.0
37.5°	2413.0	2416.8	2444.2	2432.9	2436.7	2439.2	2434.2	2373.2	2451.6	2599.9	2333.3
40°	2490.3	2485.3	2552.5	2587.4	2594.9	2622.3	2622.3	2607.4	2728.2	2895.1	2623.5
42.5°	2572.5	2584.9	2672.1	2730.7	2801.7	2825.4	2857.7	2865.2	3052.1	3242.7	2920.0
45°	2707.0	2685.8	2796.7	2935.0	2997.3	3080.7	3130.6	3172.9	3398.4	3660.0	3216.5
47.5°	2877.7	2835.3	2932.5	3133.1	3277.6	3346.1	3435.8	3491.8	3712.3	3982.7	3496.8
50°	3067.0	3023.4	3070.8	3347.3	3515.5	3640.1	3754.7	3825.7	4092.3	4343.9	3701.1
52.5°	3281.3	3241.4	3248.9	3570.3	3818.2	3909.2	4059.9	4165.8	4431.1	4561.9	3773.4
55°	3509.3	3499.3	3475.6	3788.3	4083.6	4287.9	4378.8	4505.9	4778.7	4680.3	3851.9
57.5°	3738.5	3707.4	3741.0	4077.3	4509.6	4631.7	4757.5	4833.5	4971.8	4783.7	3822.0
60°	3954.0	3956.5	4003.8	4391.3	4872.1	5045.3	5158.6	5112.6	5169.9	4828.5	3753.4
62.5°	4135.9	4130.9	4250.5	4743.8	5351.7	5468.8	5553.6	5348.0	5262.0	4872.1	3633.9
65°	4299.1	4355.1	4543.2	5163.6	5802.7	5937.2	5886.2	5571.0	5351.7	4743.8	3297.5
67.5°	4422.4	4505.9	4832.3	5558.5	6216.3	6311.0	6240.0	5740.4	5245.9	4240.5	2685.8
70°	4494.7	4579.4	5039.1	5887.4	6546.4	6614.9	6448.0	5609.6	4628.0	3070.8	1675.5
71°	4472.2	4575.6	5078.9	5922.3	6624.9	6676.0	6416.9	5367.9	4162.0	2571.2	1222.1
72.5°	4269.2	4366.4	4913.2	5897.4	6530.2	6499.1	6173.9	4787.4	3276.3	1639.4	631.6
75°	3136.8	3241.4	4216.9	5101.3	5828.9	5614.6	4996.7	3359.8	1709.2	502.0	184.4
77.5°	1562.2	1579.6	2617.3	3703.6	4275.4	4062.4	3348.6	1873.6	639.1	148.2	92.2
80°	720.0	725.0	981.7	1918.5	2584.9	2432.9	1876.1	924.3	289.0	78.5	72.3
82.5°	490.8	498.3	591.7	794.8	1122.4	946.8	759.9	591.7	165.7	47.3	71.0
85°	89.7	82.2	331.4	421.1	433.5	294.0	262.9	512.0	62.3	27.4	62.3
87.5°	0.0	1.2	46.1	171.9	154.5	68.5	89.7	124.6	6.2	8.7	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484901

CATALOG NUMBER: IFLD-S-SA2D-827-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1	1653.1
2.5°	1650.6	1636.9	1590.8	1539.7	1493.7	1457.5	1411.4	1390.3	1356.6	1337.9	1336.7
5°	1626.9	1589.6	1509.8	1423.9	1328.0	1248.2	1159.8	1110.0	1052.7	1035.2	1031.5
7.5°	1587.1	1533.5	1416.4	1295.6	1148.6	1007.8	899.4	783.6	712.6	682.7	671.5
10°	1562.2	1497.4	1337.9	1157.3	951.8	753.7	601.7	478.4	413.6	382.4	375.0
12.5°	1562.2	1492.4	1274.4	1025.3	752.4	515.7	372.5	301.5	280.3	272.8	272.8
15°	1558.4	1482.4	1213.4	889.5	556.9	346.3	277.8	262.9	260.4	259.1	257.9
17.5°	1577.1	1465.0	1151.1	743.7	393.7	272.8	255.4	252.9	250.4	250.4	247.9
20°	1590.8	1455.0	1076.3	589.2	294.0	252.9	245.4	241.7	240.4	239.2	241.7
22.5°	1579.6	1440.1	984.1	441.0	256.6	240.4	235.4	231.7	229.2	229.2	230.5
25°	1600.8	1426.4	892.0	332.6	240.4	229.2	224.2	221.7	220.5	219.3	216.8
27.5°	1629.4	1432.6	782.3	267.8	226.7	218.0	213.0	210.5	209.3	206.8	209.3
30°	1664.3	1431.4	661.5	234.2	214.3	205.5	200.6	199.3	196.8	195.6	196.8
32.5°	1724.1	1463.8	536.9	216.8	200.6	193.1	188.1	186.9	185.6	184.4	183.1
35°	1852.4	1503.6	419.8	203.1	188.1	179.4	175.7	173.2	171.9	170.7	169.4
37.5°	2010.6	1592.1	320.2	190.6	175.7	166.9	163.2	161.9	157.0	155.7	154.5
40°	2208.7	1686.7	246.7	176.9	164.4	155.7	152.0	148.2	142.0	139.5	137.0
42.5°	2455.4	1778.9	203.1	164.4	152.0	145.8	139.5	133.3	128.3	123.3	120.8
45°	2702.0	1886.1	178.1	153.2	142.0	134.5	129.6	120.8	112.1	104.6	103.4
47.5°	2907.6	1924.7	163.2	140.8	132.0	125.8	118.3	107.1	94.7	87.2	86.0
50°	3060.8	1902.3	148.2	128.3	120.8	114.6	104.6	90.9	78.5	71.0	68.5
52.5°	3090.7	1803.8	134.5	118.3	109.6	102.2	90.9	76.0	62.3	54.8	53.6
55°	3069.5	1640.7	123.3	109.6	99.7	88.4	76.0	61.0	48.6	41.1	39.9
57.5°	3025.9	1447.6	110.9	98.4	87.2	76.0	62.3	49.8	36.1	28.7	28.7
60°	2877.7	1184.7	98.4	86.0	74.7	64.8	51.1	36.1	24.9	18.7	17.4
62.5°	2670.9	910.6	86.0	73.5	64.8	53.6	39.9	26.2	14.9	10.0	10.0
65°	2293.4	637.8	72.3	61.0	53.6	43.6	29.9	16.2	8.7	3.7	3.7
67.5°	1742.8	394.9	59.8	51.1	46.1	34.9	21.2	10.0	3.7	1.2	0.0
70°	1000.3	205.5	47.3	41.1	36.1	26.2	14.9	5.0	2.5	0.0	0.0
71°	698.9	152.0	42.4	36.1	32.4	23.7	12.5	3.7	1.2	0.0	0.0
72.5°	350.1	100.9	36.1	29.9	26.2	18.7	10.0	3.7	1.2	0.0	0.0
75°	124.6	64.8	24.9	19.9	18.7	13.7	6.2	2.5	1.2	0.0	0.0
77.5°	86.0	52.3	17.4	12.5	12.5	8.7	3.7	1.2	1.2	0.0	0.0
80°	78.5	28.7	11.2	7.5	6.2	5.0	2.5	1.2	0.0	0.0	0.0
82.5°	78.5	21.2	6.2	5.0	3.7	2.5	1.2	0.0	0.0	0.0	0.0
85°	54.8	11.2	3.7	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	8.7	3.7	2.5	1.2	1.2	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)