

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: P484628

Luminaire Tested: **IFLD-S-SA2D-722-U-SL4-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484628
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

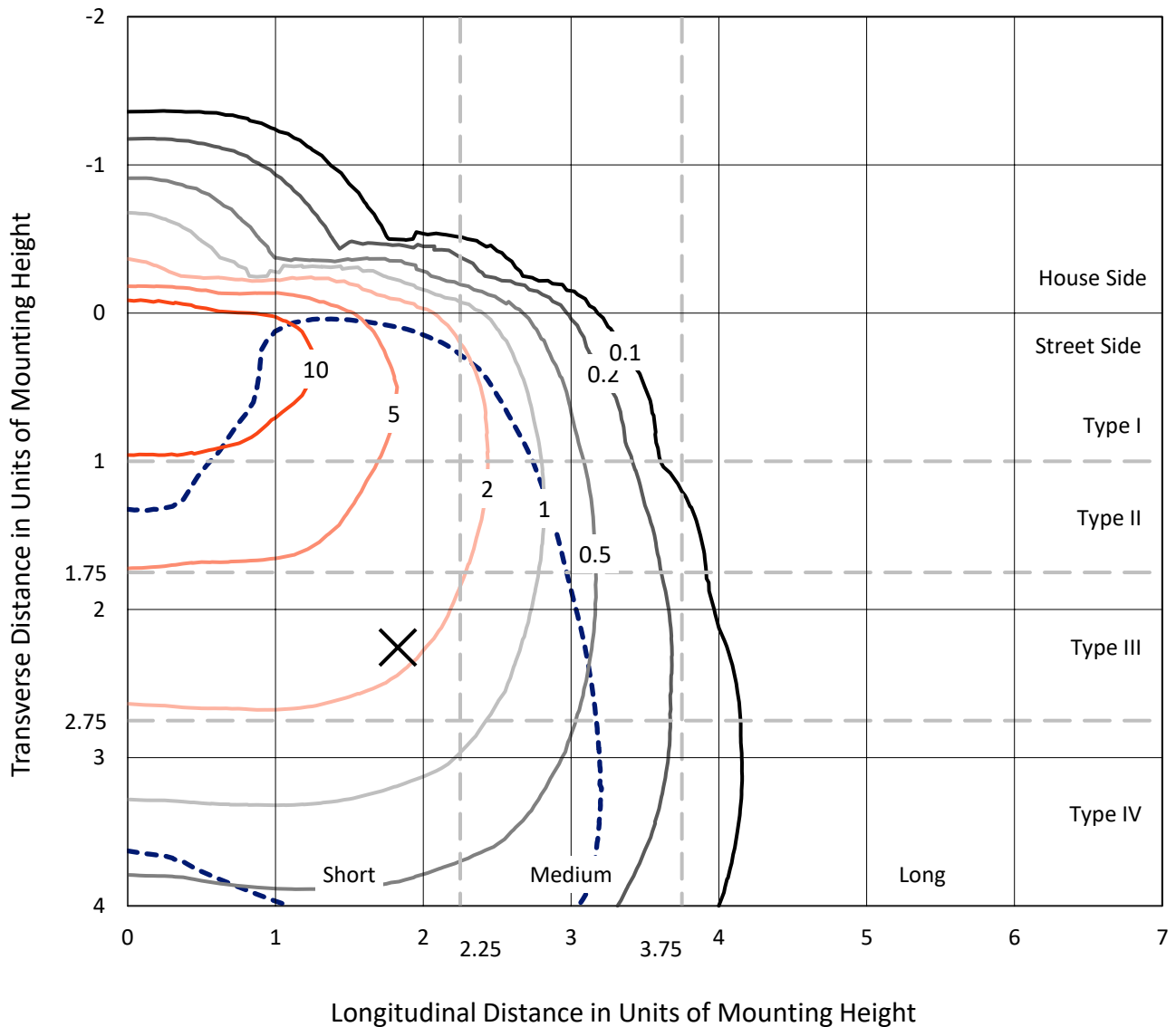
Lumens per Lamp: N/A
Luminaire Lumens: 9516.9 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

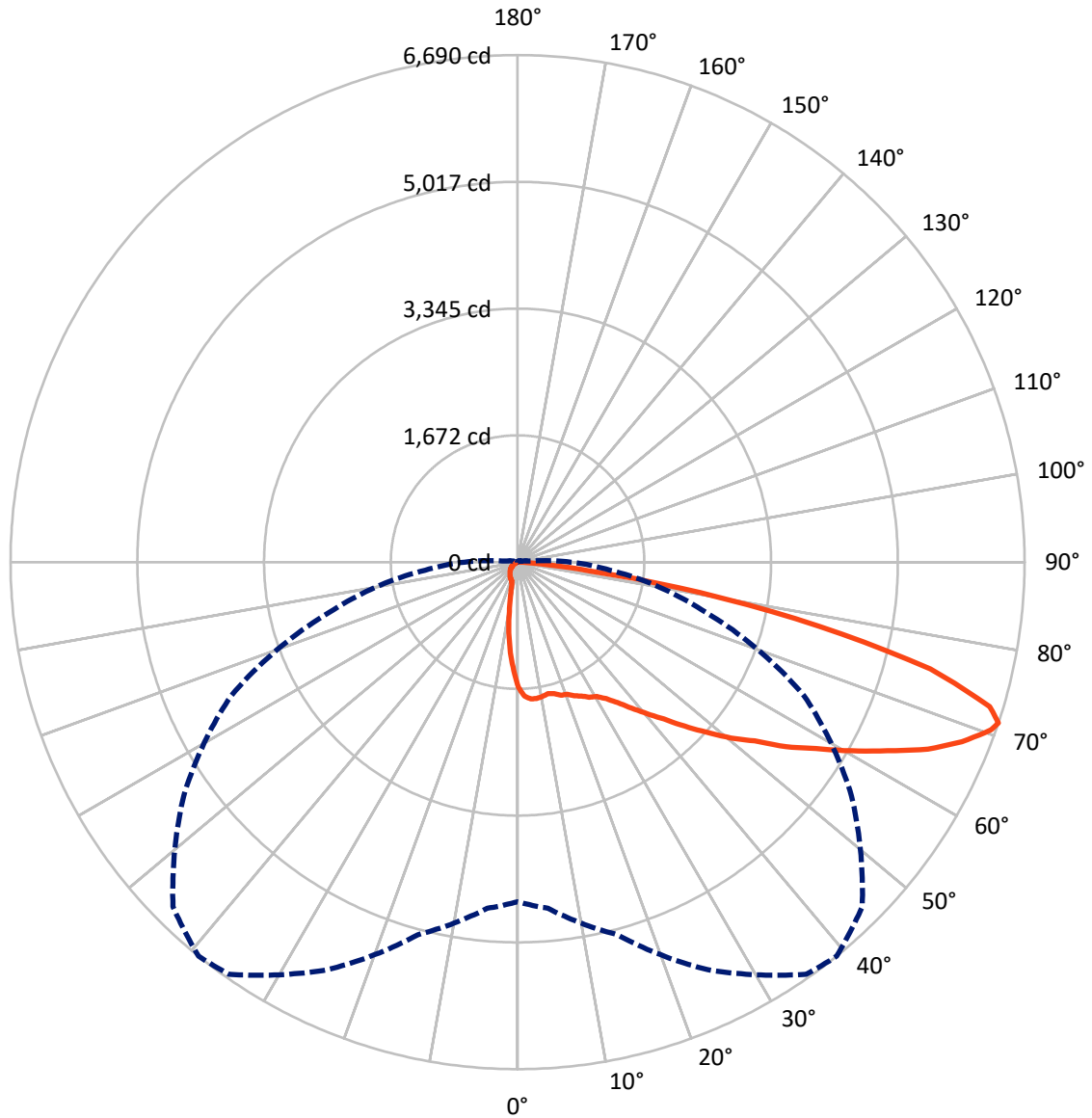
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	716.5	0.0	716.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8800.5	0.0	8800.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	9516.9	0.0	9516.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	1.5
10°-20°	340.9	3.6
20°-30°	547.2	5.8
30°-40°	837.7	8.8
40°-50°	1344.6	14.1
50°-60°	1975.0	20.8
60°-70°	2487.5	26.1
70°-80°	1660.1	17.4
80°-90°	185.5	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°	9516.9	100.0
0°-180°	9516.9	100.0

Coefficient of Utilization



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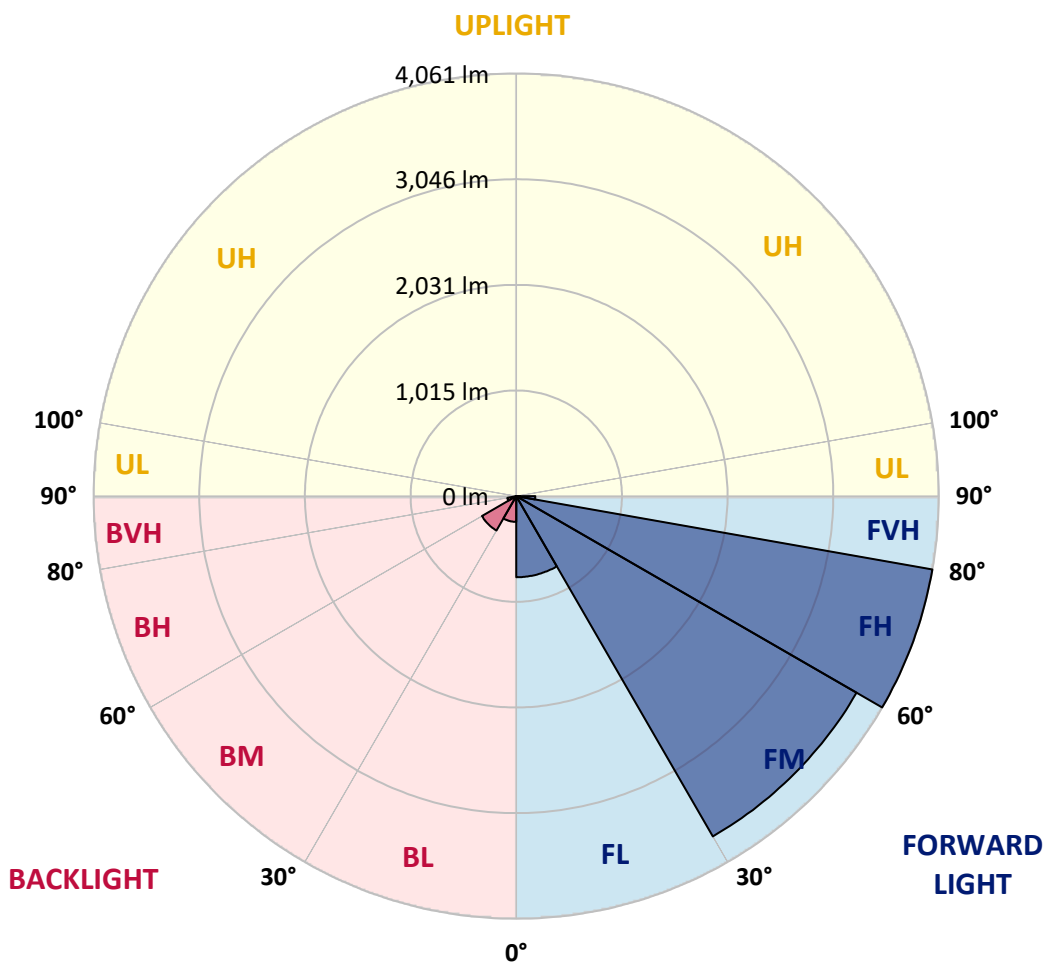
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	779.2	8.2			
FM (30°-60°)	3776.5	39.7			
FH (60°-80°)	4061.3	42.7			G2/5000
FVH (80°-90°)	183.5	1.9			G2/225
BL (0°-30°)	247.4	2.6	B1/500		
BM (30°-60°)	380.8	4.0	B1/1000		
BH (60°-80°)	86.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1785.1	1802.5	1785.1	1777.6	1770.1	1771.3	1751.4	1755.1	1731.4	1700.2	1675.2
5°	1841.2	1864.9	1846.2	1837.5	1836.2	1812.5	1802.5	1778.8	1750.1	1701.4	1671.5
7.5°	1836.2	1831.2	1840.0	1832.5	1816.3	1816.3	1805.0	1771.3	1742.6	1687.7	1636.5
10°	1798.8	1813.8	1806.3	1797.5	1801.3	1802.5	1781.3	1757.6	1748.9	1693.9	1610.3
12.5°	1795.0	1770.1	1797.5	1798.8	1782.6	1781.3	1778.8	1772.6	1745.1	1695.2	1616.5
15°	1782.6	1772.6	1800.0	1801.3	1805.0	1801.3	1805.0	1800.0	1772.6	1743.9	1644.0
17.5°	1792.5	1781.3	1820.0	1838.7	1830.0	1847.5	1841.2	1818.8	1795.0	1761.3	1670.2
20°	1795.0	1811.3	1853.7	1861.2	1888.7	1860.0	1858.7	1835.0	1820.0	1783.8	1686.4
22.5°	1841.2	1848.7	1901.1	1917.4	1918.6	1914.9	1883.7	1856.2	1850.0	1805.0	1690.2
25°	1911.1	1937.3	1961.1	1971.1	1974.8	1957.3	1924.9	1889.9	1874.9	1846.2	1728.9
27.5°	2034.7	2018.5	2039.7	2054.7	2012.2	2018.5	1977.3	1947.3	1926.1	1901.1	1773.8
30°	2144.6	2129.6	2130.8	2128.3	2092.1	2058.4	2047.2	1994.8	1968.6	1978.5	1843.7
32.5°	2243.2	2210.7	2238.2	2225.7	2158.3	2148.3	2139.6	2073.4	2078.4	2124.6	1948.6
35°	2334.3	2323.1	2345.5	2323.1	2278.1	2275.6	2266.9	2209.5	2236.9	2303.1	2128.3
37.5°	2417.9	2421.7	2449.1	2437.9	2441.7	2444.2	2439.2	2378.0	2456.6	2605.2	2338.1
40°	2495.3	2490.3	2557.7	2592.7	2600.2	2627.7	2627.7	2612.7	2733.8	2901.0	2628.9
42.5°	2577.7	2590.2	2677.6	2736.3	2807.4	2831.1	2863.6	2871.1	3058.3	3249.3	2926.0
45°	2712.5	2691.3	2802.4	2941.0	3003.4	3087.0	3137.0	3179.4	3405.3	3667.5	3223.1
47.5°	2883.6	2841.1	2938.5	3139.5	3284.3	3352.9	3442.8	3499.0	3719.9	3990.8	3504.0
50°	3073.3	3029.6	3077.0	3354.2	3522.7	3647.5	3762.4	3833.5	4100.6	4352.8	3708.7
52.5°	3288.0	3248.1	3255.5	3577.6	3826.0	3917.1	4068.2	4174.3	4440.2	4571.2	3781.1
55°	3516.4	3506.5	3482.7	3796.1	4091.9	4296.6	4387.7	4515.1	4788.4	4689.8	3859.7
57.5°	3746.1	3714.9	3748.6	4085.7	4518.8	4641.1	4767.2	4843.4	4981.9	4793.4	3829.8
60°	3962.1	3964.6	4012.0	4400.2	4882.1	5055.6	5169.2	5123.0	5180.4	4838.4	3761.1
62.5°	4144.3	4139.3	4259.2	4753.5	5362.7	5480.0	5564.9	5358.9	5272.8	4882.1	3641.3
65°	4307.9	4364.0	4552.5	5174.2	5814.5	5949.4	5898.2	5582.4	5362.7	4753.5	3304.2
67.5°	4431.4	4515.1	4842.1	5569.9	6229.0	6323.8	6252.7	5752.1	5256.6	4249.2	2691.3
70°	4503.8	4588.7	5049.3	5899.4	6559.8	6628.4	6461.2	5621.1	4637.4	3077.0	1679.0
71°	4481.4	4585.0	5089.3	5934.4	6638.4	6689.6	6430.0	5378.9	4170.5	2576.5	1224.6
72.5°	4277.9	4375.3	4923.3	5909.4	6543.5	6512.3	6186.5	4797.2	3283.0	1642.8	632.9
75°	3143.2	3248.1	4225.5	5111.8	5840.8	5626.1	5006.9	3366.6	1712.7	503.1	184.7
77.5°	1565.4	1582.8	2622.7	3711.2	4284.1	4070.7	3355.4	1877.4	640.4	148.5	92.4
80°	721.5	726.5	983.7	1922.4	2590.2	2437.9	1879.9	926.2	289.6	78.6	72.4
82.5°	491.8	499.3	592.9	796.4	1124.7	948.7	761.5	592.9	166.0	47.4	71.2
85°	89.9	82.4	332.0	421.9	434.4	294.6	263.4	513.0	62.4	27.5	62.4
87.5°	0.0	1.2	46.2	172.3	154.8	68.7	89.9	124.8	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5	1656.5
2.5°	1654.0	1640.3	1594.1	1542.9	1496.7	1460.5	1414.3	1393.1	1359.4	1340.7	1339.4
5°	1630.3	1592.8	1512.9	1426.8	1330.7	1250.8	1162.2	1112.2	1054.8	1037.3	1033.6
7.5°	1590.3	1536.6	1419.3	1298.2	1150.9	1009.9	901.3	785.2	714.0	684.1	672.8
10°	1565.4	1500.4	1340.7	1159.7	953.7	755.2	602.9	479.3	414.4	383.2	375.7
12.5°	1565.4	1495.5	1277.0	1027.3	754.0	516.8	373.2	302.1	280.9	273.4	273.4
15°	1561.6	1485.5	1215.8	891.3	558.0	347.0	278.4	263.4	260.9	259.6	258.4
17.5°	1580.3	1468.0	1153.4	745.2	394.5	273.4	255.9	253.4	250.9	250.9	248.4
20°	1594.1	1458.0	1078.5	590.4	294.6	253.4	245.9	242.2	240.9	239.7	242.2
22.5°	1582.8	1443.0	986.2	441.9	257.1	240.9	235.9	232.2	229.7	229.7	230.9
25°	1604.1	1429.3	893.8	333.3	240.9	229.7	224.7	222.2	220.9	219.7	217.2
27.5°	1632.8	1435.5	783.9	268.4	227.2	218.5	213.5	211.0	209.7	207.2	209.7
30°	1667.7	1434.3	662.8	234.7	214.7	206.0	201.0	199.7	197.2	196.0	197.2
32.5°	1727.6	1466.7	538.0	217.2	201.0	193.5	188.5	187.2	186.0	184.7	183.5
35°	1856.2	1506.7	420.7	203.5	188.5	179.8	176.0	173.5	172.3	171.0	169.8
37.5°	2014.7	1595.3	320.8	191.0	176.0	167.3	163.5	162.3	157.3	156.0	154.8
40°	2213.2	1690.2	247.2	177.3	164.8	156.0	152.3	148.5	142.3	139.8	137.3
42.5°	2460.4	1782.6	203.5	164.8	152.3	146.1	139.8	133.6	128.6	123.6	121.1
45°	2707.5	1889.9	178.5	153.5	142.3	134.8	129.8	121.1	112.3	104.9	103.6
47.5°	2913.5	1928.6	163.5	141.1	132.3	126.1	118.6	107.4	94.9	87.4	86.1
50°	3067.1	1906.1	148.5	128.6	121.1	114.8	104.9	91.1	78.6	71.2	68.7
52.5°	3097.0	1807.5	134.8	118.6	109.8	102.4	91.1	76.1	62.4	54.9	53.7
55°	3075.8	1644.0	123.6	109.8	99.9	88.6	76.1	61.2	48.7	41.2	39.9
57.5°	3032.1	1450.5	111.1	98.6	87.4	76.1	62.4	49.9	36.2	28.7	28.7
60°	2883.6	1187.1	98.6	86.1	74.9	64.9	51.2	36.2	25.0	18.7	17.5
62.5°	2676.3	912.5	86.1	73.6	64.9	53.7	39.9	26.2	15.0	10.0	10.0
65°	2298.1	639.1	72.4	61.2	53.7	43.7	30.0	16.2	8.7	3.7	3.7
67.5°	1746.4	395.7	59.9	51.2	46.2	35.0	21.2	10.0	3.7	1.2	0.0
70°	1002.4	206.0	47.4	41.2	36.2	26.2	15.0	5.0	2.5	0.0	0.0
71°	700.3	152.3	42.4	36.2	32.5	23.7	12.5	3.7	1.2	0.0	0.0
72.5°	350.8	101.1	36.2	30.0	26.2	18.7	10.0	3.7	1.2	0.0	0.0
75°	124.8	64.9	25.0	20.0	18.7	13.7	6.2	2.5	1.2	0.0	0.0
77.5°	86.1	52.4	17.5	12.5	12.5	8.7	3.7	1.2	1.2	0.0	0.0
80°	78.6	28.7	11.2	7.5	6.2	5.0	2.5	1.2	0.0	0.0	0.0
82.5°	78.6	21.2	6.2	5.0	3.7	2.5	1.2	0.0	0.0	0.0	0.0
85°	54.9	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)