

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: P483073

Luminaire Tested: **IFLD-S-SA3D-722-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483073  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-722-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (48) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

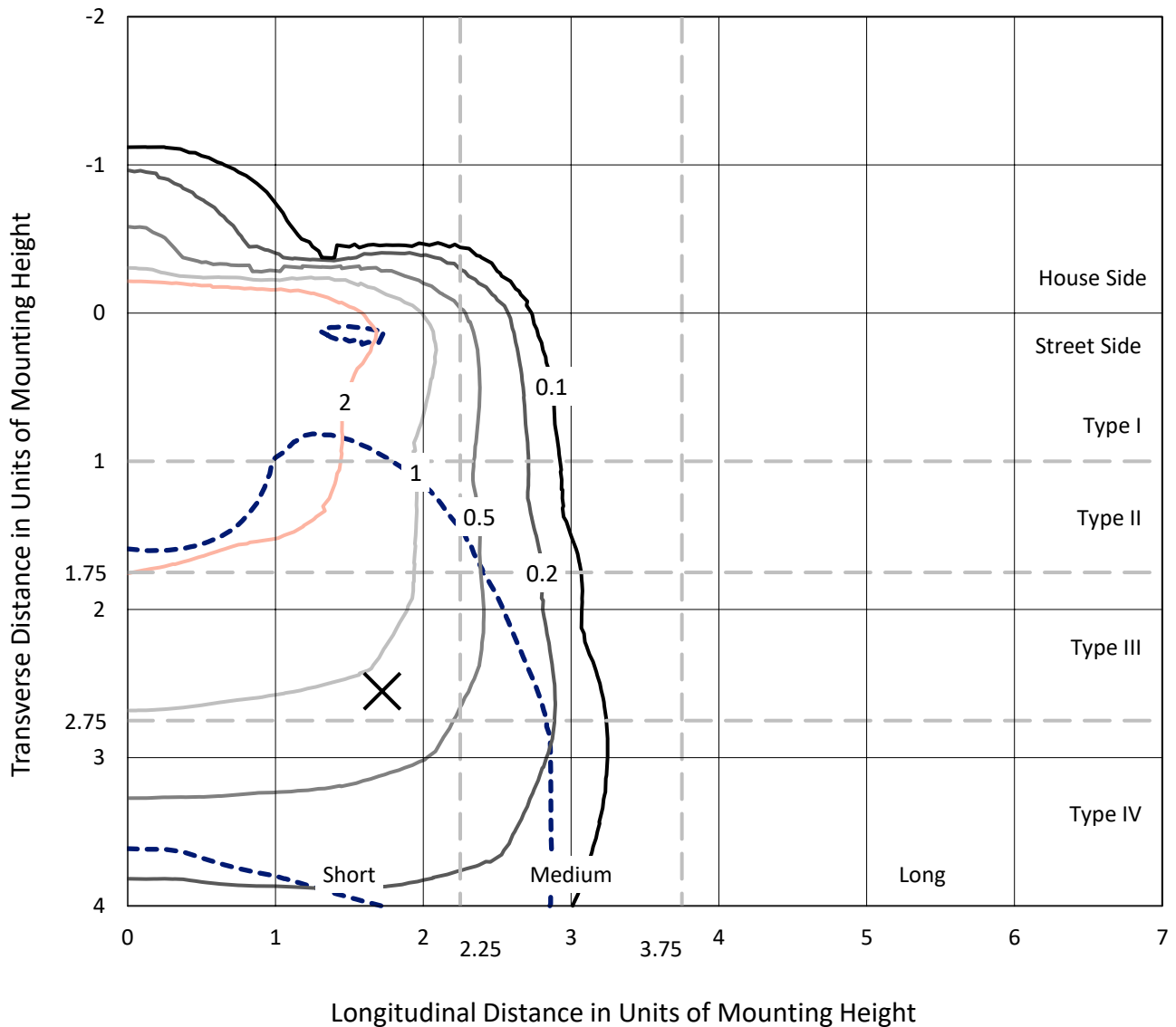
Lumens per Lamp: N/A  
Luminaire Lumens: 12413.9 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1  
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

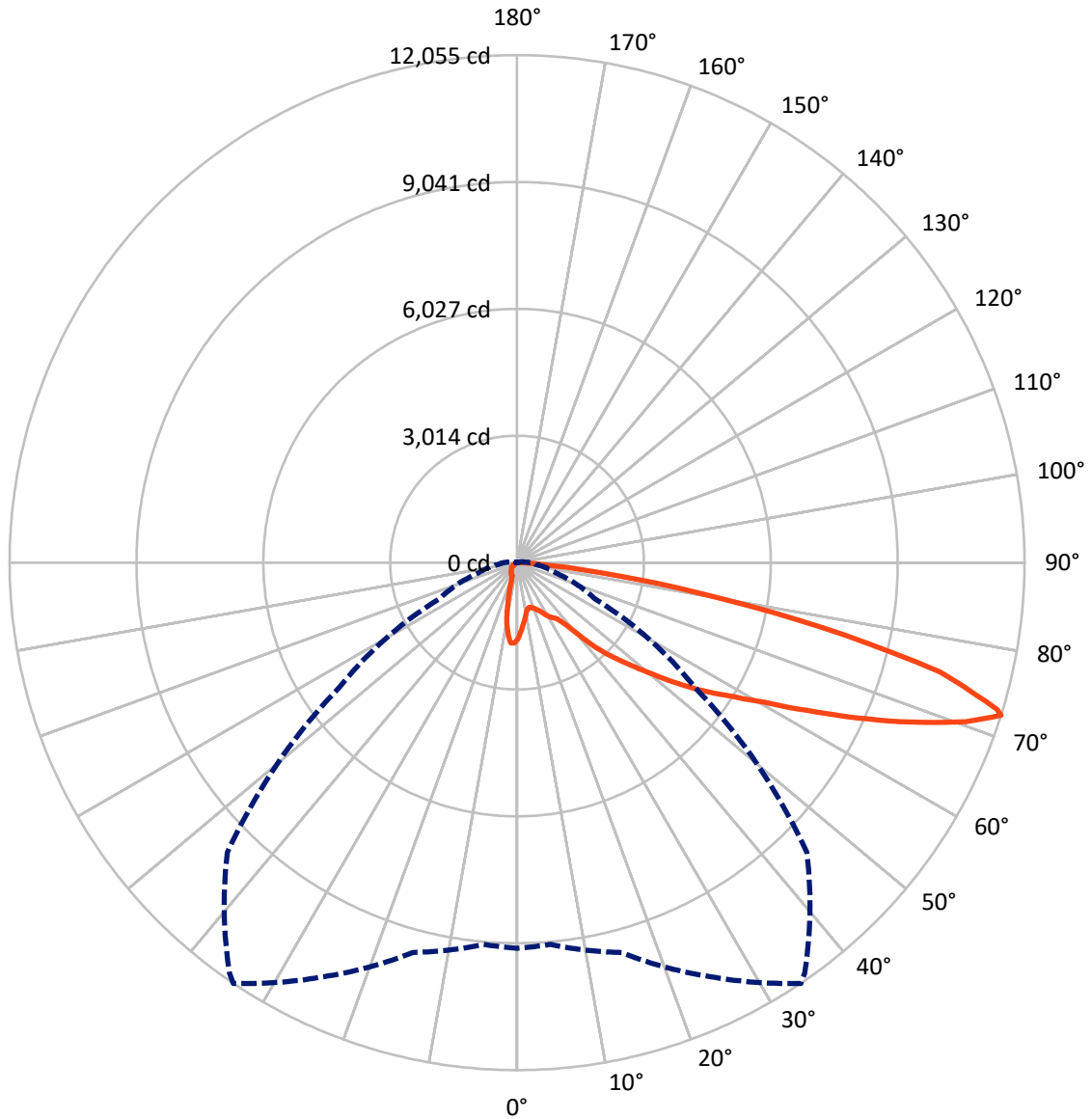
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1270.9	0.0	1270.9
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	11143.0	0.0	11143.0
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	12413.9	0.0	12413.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.7	1.3
10°-20°	356.9	2.9
20°-30°	538.8	4.3
30°-40°	874.3	7.0
40°-50°	1644.1	13.2
50°-60°	2688.1	21.7
60°-70°	3573.4	28.8
70°-80°	2393.1	19.3
80°-90°	187.5	1.5
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°	12413.9	100.0
0°-180°	12413.9	100.0

**Coefficient of Utilization**



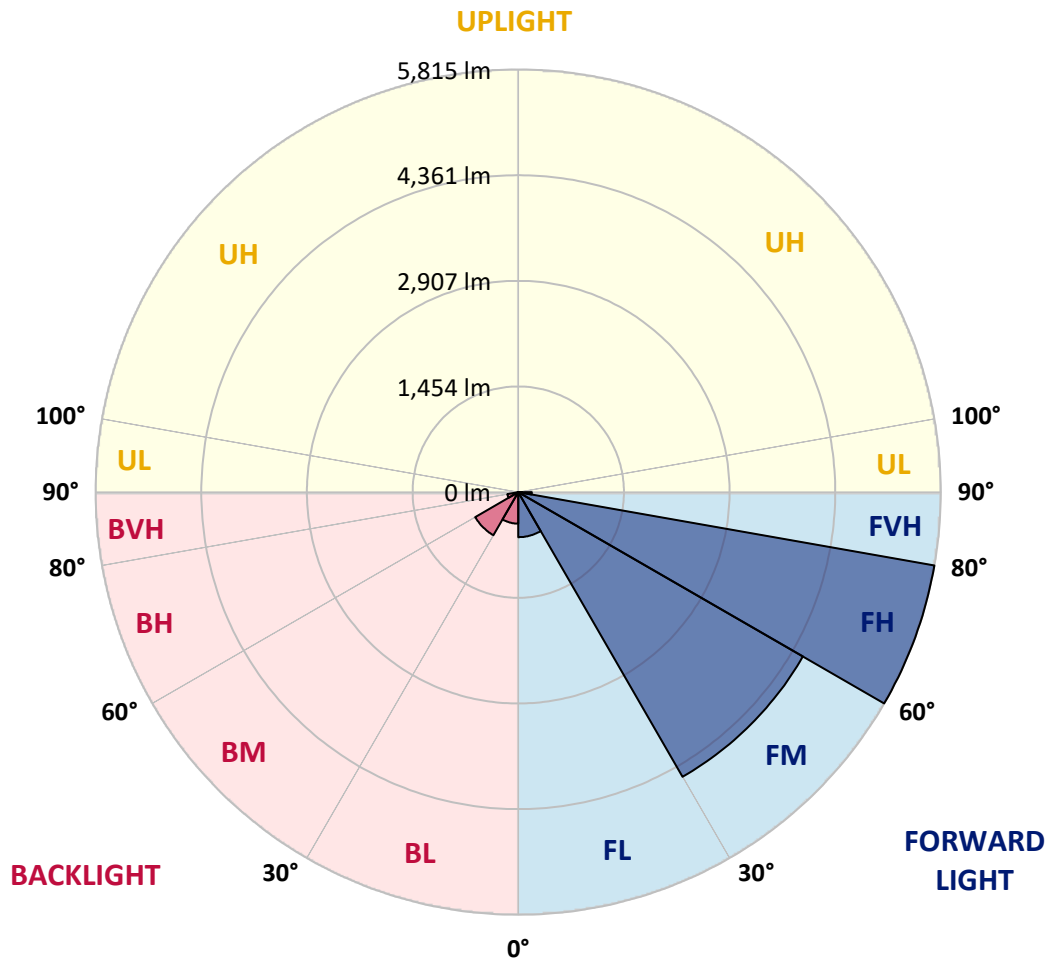
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	619.7	5.0			
FM (30°-60°)	4522.4	36.4			
FH (60°-80°)	5814.6	46.8			G3/7500
FVH (80°-90°)	186.4	1.5			G2/225
BL (0°-30°)	433.6	3.5	B1/500		
BM (30°-60°)	684.1	5.5	B1/1000		
BH (60°-80°)	152.0	1.2	B1/500		G1/500
BVH (80°-90°)	1.2	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2
2.5°	1606.2	1602.6	1613.4	1631.3	1649.3	1642.1	1676.2	1712.1	1737.2	1771.3	1812.6
5°	1403.4	1412.4	1423.1	1459.0	1482.4	1487.7	1550.6	1597.2	1674.4	1753.4	1826.9
7.5°	1218.6	1229.3	1250.9	1290.3	1338.8	1351.4	1414.2	1507.5	1608.0	1712.1	1832.3
10°	1084.0	1094.7	1118.1	1143.2	1207.8	1207.8	1293.9	1423.1	1554.2	1676.2	1834.1
12.5°	1055.2	1060.6	1058.8	1078.6	1119.9	1128.8	1213.2	1354.9	1507.5	1663.6	1862.8
15°	1089.3	1092.9	1075.0	1064.2	1100.1	1109.1	1188.0	1313.7	1477.0	1670.8	1909.5
17.5°	1157.5	1145.0	1109.1	1092.9	1123.4	1128.8	1202.4	1311.9	1473.4	1690.5	1963.3
20°	1197.0	1211.4	1148.6	1118.1	1161.1	1168.3	1247.3	1340.6	1491.3	1724.6	2038.7
22.5°	1267.0	1274.2	1189.8	1170.1	1211.4	1211.4	1301.1	1398.0	1534.4	1780.3	2128.4
25°	1365.7	1356.7	1258.0	1238.3	1277.8	1293.9	1383.7	1489.5	1600.8	1832.3	2211.0
27.5°	1442.9	1448.3	1367.5	1315.5	1381.9	1392.6	1489.5	1588.2	1651.1	1875.4	2311.5
30°	1557.7	1547.0	1460.8	1401.6	1484.2	1486.0	1579.3	1681.6	1748.0	1952.6	2462.2
32.5°	1694.1	1672.6	1573.9	1489.5	1555.9	1572.1	1667.2	1816.2	1898.7	2097.9	2695.5
35°	1983.1	1931.0	1769.5	1638.5	1643.9	1651.1	1798.2	2011.8	2106.9	2282.8	3007.8
37.5°	2404.8	2383.3	2200.2	1950.8	1855.6	1834.1	1999.2	2270.2	2388.7	2526.8	3413.4
40°	2823.0	2792.4	2622.0	2433.5	2261.2	2218.2	2300.7	2613.0	2720.7	2866.0	3829.7
42.5°	3287.8	3233.9	3032.9	2880.4	2772.7	2726.0	2693.7	3043.7	3165.7	3264.4	4237.1
45°	3758.0	3670.0	3379.3	3262.6	3205.2	3180.1	3176.5	3585.7	3659.3	3679.0	4689.4
47.5°	4170.7	4075.6	3811.8	3680.8	3637.7	3630.5	3831.5	4210.2	4152.8	4100.7	5193.7
50°	4488.4	4427.4	4237.1	4190.5	4158.2	4145.6	4615.8	4852.7	4587.1	4495.6	5636.9
52.5°	4980.1	4843.7	4628.4	4644.5	4757.6	4759.4	5410.8	5462.9	4947.8	4766.5	6055.1
55°	5373.1	5283.4	5107.5	5084.2	5382.1	5414.4	6123.3	5925.9	5148.8	5025.0	6209.4
57.5°	5836.1	5794.9	5667.4	5671.0	5983.3	6051.5	6756.8	6317.1	5315.7	5191.9	6232.8
60°	6505.5	6387.1	6320.7	6351.2	6719.1	6785.5	7370.6	6598.9	5396.5	5301.3	6175.3
62.5°	7244.9	7106.7	7035.0	7191.1	7727.7	7738.5	7837.2	6848.3	5346.2	5330.1	5805.6
65°	8135.1	7998.7	7941.2	8255.3	8892.4	8852.9	8492.2	6954.2	5186.5	5041.1	4834.7
67.5°	9021.6	8939.1	8820.6	9321.3	10114.5	10114.5	9172.4	6914.7	4768.3	4046.9	3162.1
70°	9441.6	9499.0	9687.4	10473.5	11315.2	11229.0	9843.6	6460.7	3549.8	2173.3	1243.7
72°	9161.6	9102.4	9588.7	10850.3	12054.5	11912.8	9730.5	5136.2	2051.3	952.9	432.5
72.5°	8680.6	8736.3	9405.7	10798.3	11916.4	12033.0	9454.1	4737.8	1687.0	759.1	326.6
75°	5322.9	5418.0	7020.6	9168.8	10383.7	10252.7	7313.1	2257.6	647.9	323.0	116.7
77.5°	1943.6	2022.6	3406.2	5769.7	7384.9	7302.4	4231.7	802.2	351.7	240.5	59.2
80°	506.1	547.4	1157.5	2661.4	4343.0	4348.4	1771.3	321.2	238.7	197.4	35.9
82.5°	100.5	111.3	355.3	1035.5	2029.7	2002.8	559.9	172.3	179.5	161.5	25.1
85°	12.6	16.2	75.4	351.7	656.8	588.6	138.2	86.1	132.8	125.6	16.2
87.5°	1.8	1.8	17.9	80.8	138.2	134.6	28.7	26.9	59.2	77.2	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2	1816.2
2.5°	1835.9	1843.1	1868.2	1889.7	1914.9	1922.1	1911.3	1929.2	1904.1	1918.5	1922.1
5°	1839.5	1880.8	1927.4	1957.9	1950.8	1932.8	1918.5	1870.0	1835.9	1823.3	1850.3
7.5°	1864.6	1911.3	1961.5	1961.5	1922.1	1828.7	1739.0	1652.9	1581.1	1545.2	1575.7
10°	1896.9	1945.4	1997.4	1929.2	1782.1	1611.6	1484.2	1322.6	1213.2	1155.7	1161.1
12.5°	1940.0	2008.2	2026.1	1868.2	1624.1	1371.1	1139.6	915.3	811.2	728.6	730.4
15°	1995.6	2062.0	2008.2	1735.4	1423.1	1049.9	771.7	558.1	475.6	432.5	432.5
17.5°	2069.2	2119.5	2002.8	1613.4	1152.2	717.9	473.8	376.9	358.9	351.7	351.7
20°	2155.4	2193.0	1950.8	1423.1	856.0	461.2	348.2	337.4	339.2	335.6	335.6
22.5°	2252.3	2264.8	1891.5	1202.4	579.7	341.0	324.8	326.6	328.4	324.8	326.6
25°	2354.6	2320.5	1805.4	944.0	385.8	310.5	314.1	317.6	319.4	321.2	321.2
27.5°	2469.4	2401.2	1685.2	690.9	301.5	292.5	303.3	314.1	315.9	315.9	314.1
30°	2638.1	2525.0	1568.5	468.4	265.6	272.8	290.7	303.3	312.3	312.3	310.5
32.5°	2851.7	2654.3	1405.2	319.4	245.9	249.5	263.8	288.9	308.7	310.5	305.1
35°	3147.8	2810.4	1234.7	254.8	231.5	233.3	242.3	262.0	296.1	306.9	305.1
37.5°	3460.1	2988.1	1022.9	229.7	220.7	218.9	224.3	240.5	271.0	297.9	299.7
40°	3792.1	3174.7	800.4	217.2	211.8	208.2	210.0	217.2	240.5	274.6	281.8
42.5°	4104.3	3343.4	601.2	204.6	202.8	199.2	199.2	201.0	213.6	236.9	240.5
45°	4441.7	3481.6	457.6	195.6	190.2	192.0	184.8	181.3	190.2	192.0	190.2
47.5°	4757.6	3619.8	366.1	184.8	179.5	179.5	170.5	163.3	163.3	147.2	145.4
50°	5053.7	3695.1	292.5	170.5	168.7	166.9	154.3	141.8	131.0	111.3	107.7
52.5°	5299.5	3691.6	226.1	152.5	157.9	152.5	132.8	114.9	98.7	80.8	77.2
55°	5373.1	3519.3	170.5	125.6	134.6	127.4	105.9	89.7	71.8	57.4	55.6
57.5°	5310.3	3257.3	129.2	96.9	104.1	96.9	80.8	66.4	50.2	39.5	35.9
60°	5100.3	2950.4	100.5	75.4	79.0	73.6	61.0	50.2	35.9	25.1	21.5
62.5°	4701.9	2566.3	77.2	59.2	57.4	57.4	46.7	37.7	25.1	14.4	12.6
65°	3858.5	2001.0	59.2	41.3	41.3	41.3	35.9	26.9	16.2	7.2	3.6
67.5°	2422.8	1164.7	48.5	32.3	30.5	30.5	25.1	17.9	9.0	1.8	0.0
70°	911.7	427.1	37.7	25.1	23.3	23.3	17.9	10.8	5.4	0.0	0.0
72°	314.1	163.3	30.5	17.9	17.9	16.2	12.6	9.0	3.6	0.0	0.0
72.5°	258.4	131.0	28.7	17.9	16.2	16.2	12.6	9.0	3.6	0.0	0.0
75°	93.3	53.8	19.7	12.6	10.8	10.8	9.0	5.4	1.8	0.0	0.0
77.5°	46.7	34.1	16.2	10.8	9.0	5.4	5.4	3.6	1.8	0.0	0.0
80°	28.7	21.5	9.0	7.2	5.4	3.6	1.8	1.8	0.0	0.0	0.0
82.5°	19.7	12.6	5.4	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0
85°	12.6	5.4	3.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	3.6	1.8	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)