

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: P484123

Luminaire Tested: **IFLD-S-SA3A-827-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484123  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3A-827-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

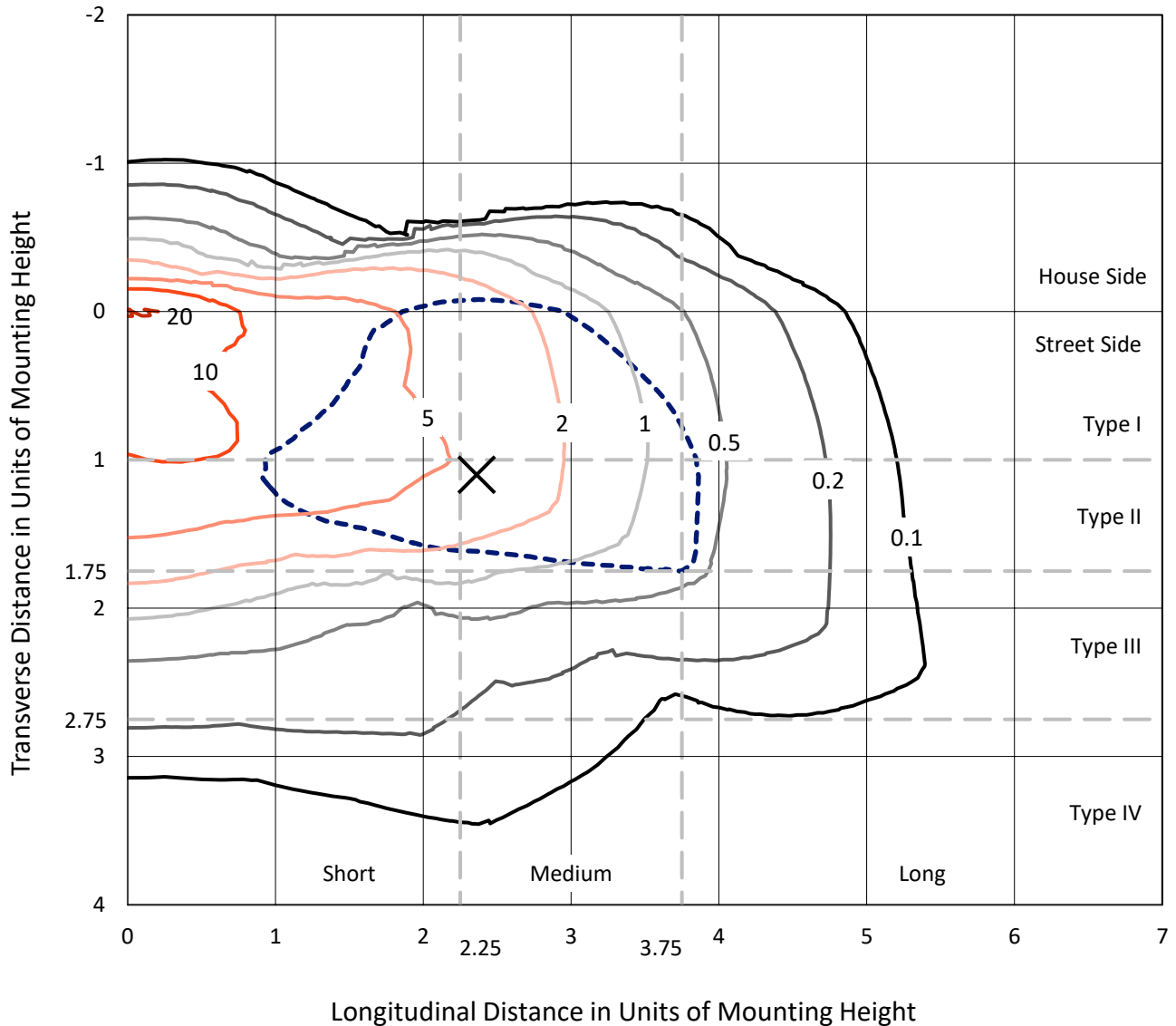
Lumens per Lamp: N/A  
Luminaire Lumens: 8324.3 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8  
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

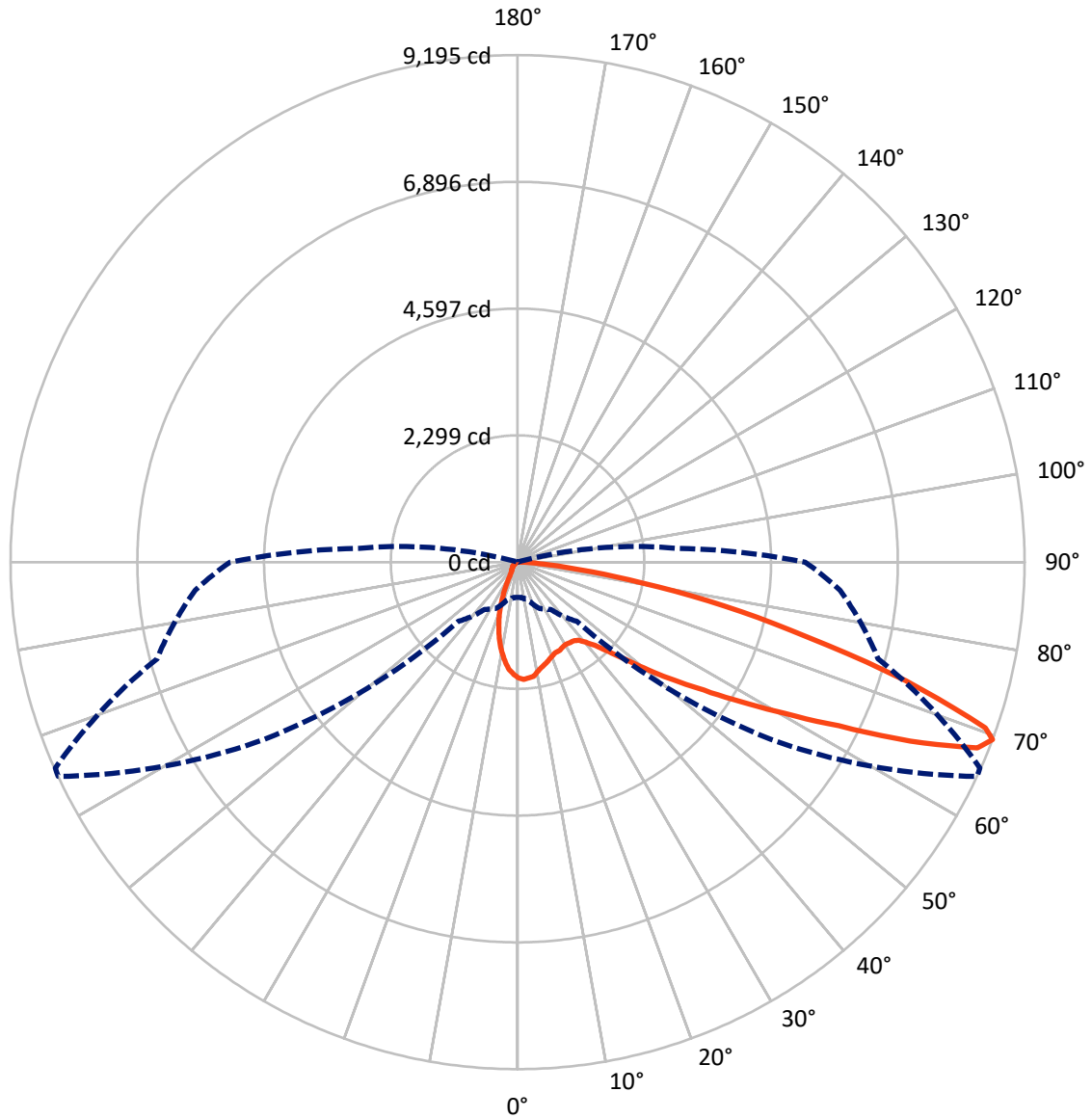
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1009.8	0.0	1009.8
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	7314.5	0.0	7314.5
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	8324.3	0.0	8324.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.7	2.1
10°-20°	375.8	4.5
20°-30°	523.2	6.3
30°-40°	741.4	8.9
40°-50°	1168.4	14.0
50°-60°	1895.9	22.8
60°-70°	2117.3	25.4
70°-80°	1192.3	14.3
80°-90°	138.3	1.7
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°	8324.3	100.0
0°-180°	8324.3	100.0

**Coefficient of Utilization**

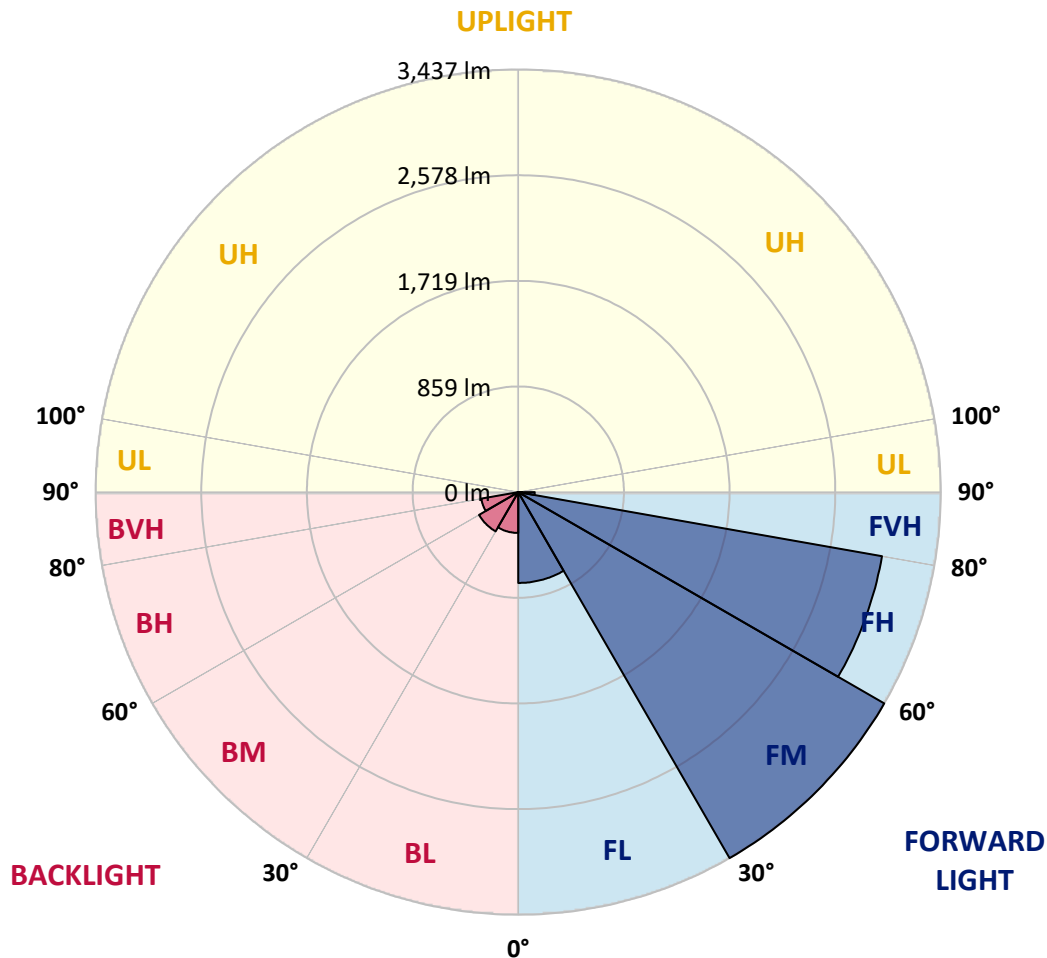


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	738.7	8.9			
FM (30°-60°)	3437.2	41.3			
FH (60°-80°)	3004.1	36.1			G2/5000
FVH (80°-90°)	134.5	1.6			G2/225
BL (0°-30°)	332.0	4.0	B1/500		
BM (30°-60°)	368.5	4.4	B1/1000		
BH (60°-80°)	305.5	3.7	B1/500		G1/500
BVH (80°-90°)	3.8	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7
2.5°	2021.3	2037.0	2041.5	2057.2	2065.1	2098.7	2117.8	2129.1	2123.4	2135.8	2136.9
5°	1877.5	1868.5	1892.1	1909.0	1944.9	2003.3	2062.8	2108.8	2130.2	2150.4	2147.0
7.5°	1723.7	1719.2	1742.8	1781.0	1813.5	1884.3	1979.7	2093.1	2088.6	2138.0	2152.6
10°	1618.1	1622.6	1630.5	1668.7	1716.9	1788.8	1907.8	2013.4	2037.0	2141.4	2170.6
12.5°	1521.6	1529.4	1544.0	1583.3	1639.5	1713.6	1829.2	1952.8	1988.7	2122.3	2180.7
15°	1490.1	1472.1	1501.3	1530.5	1588.9	1655.2	1752.9	1906.7	1922.4	2099.9	2197.6
17.5°	1464.3	1453.1	1466.5	1490.1	1551.9	1605.8	1697.9	1857.3	1886.5	2090.9	2195.3
20°	1472.1	1462.0	1467.7	1485.6	1513.7	1564.2	1649.6	1810.1	1841.6	2049.3	2191.9
22.5°	1494.6	1502.5	1492.4	1496.9	1505.8	1531.7	1623.7	1776.5	1803.4	2041.5	2211.0
25°	1595.7	1582.2	1568.7	1563.1	1510.3	1521.6	1615.9	1774.2	1793.3	2013.4	2195.3
27.5°	1701.2	1690.0	1684.4	1651.8	1580.0	1546.3	1617.0	1742.8	1768.6	2002.2	2176.2
30°	1829.2	1843.8	1821.4	1782.1	1682.1	1599.0	1629.4	1727.1	1763.0	1959.5	2163.9
32.5°	1964.0	1971.8	1983.1	1953.9	1824.7	1678.8	1666.4	1741.7	1743.9	1959.5	2135.8
35°	2116.7	2105.5	2134.7	2136.9	2023.5	1820.3	1737.2	1751.8	1775.3	1950.5	2125.7
37.5°	2248.1	2267.2	2300.9	2354.8	2238.0	2020.1	1847.2	1798.9	1809.0	1992.1	2133.6
40°	2391.8	2410.9	2487.3	2541.2	2474.9	2244.7	2014.5	1909.0	1916.8	2053.8	2174.0
42.5°	2550.2	2587.2	2678.2	2772.5	2754.5	2529.9	2230.1	2070.7	2067.3	2207.7	2257.1
45°	2764.6	2814.0	2912.9	3021.8	3037.5	2856.7	2517.6	2312.1	2323.3	2408.7	2428.9
47.5°	3063.3	3061.1	3157.7	3278.9	3369.9	3195.8	2861.2	2636.6	2635.5	2726.5	2683.8
50°	3351.9	3353.0	3378.9	3519.2	3755.0	3666.3	3286.8	3067.8	3055.5	3100.4	3031.9
52.5°	3485.5	3469.8	3450.7	3620.3	4051.5	4259.2	3825.8	3556.3	3546.2	3519.2	3501.3
55°	3345.2	3350.8	3349.7	3526.0	4207.6	4884.7	4517.5	4094.2	4077.3	3993.1	4017.8
57.5°	2894.9	2876.9	2916.2	3191.3	4029.0	5311.4	5506.8	4772.4	4728.6	4449.0	4392.9
60°	2154.9	2160.5	2193.1	2517.6	3585.5	5401.3	6453.4	5568.6	5379.9	4770.2	4692.7
62.5°	1504.7	1493.5	1505.8	1687.8	2563.6	5041.9	7093.5	6536.5	6354.6	5135.1	5090.2
65°	1076.9	1062.3	1111.7	1222.9	1539.5	3855.0	7184.5	7825.6	7662.8	5717.9	5610.1
67.5°	774.8	772.6	829.8	1032.0	1093.7	2220.0	6510.7	8993.5	8894.7	6409.6	5926.8
69°	641.2	642.3	697.3	924.2	1044.3	1515.9	5602.3	9194.5	9176.5	6766.7	5867.3
70°	559.2	563.7	627.7	860.2	1024.1	1246.4	4829.7	8996.8	8978.9	6836.3	5670.8
72.5°	344.7	348.1	432.3	689.5	973.6	1017.4	2888.2	7360.7	7422.5	6517.4	4885.8
75°	165.1	166.2	226.8	498.6	938.8	964.6	1547.4	5431.6	5561.8	5262.0	3817.9
77.5°	87.6	87.6	108.9	265.0	760.2	907.3	918.5	3831.4	3939.2	3327.2	2170.6
80°	43.8	44.9	66.3	138.1	471.6	889.4	717.5	2285.1	2343.5	1357.6	676.0
82.5°	16.8	18.0	31.4	83.1	244.8	751.2	630.0	1124.0	1109.4	317.8	165.1
85°	2.2	2.2	11.2	49.4	104.4	331.3	519.9	469.4	453.7	69.6	79.7
87.5°	0.0	0.0	2.2	14.6	31.4	96.6	201.0	129.1	143.7	19.1	39.3
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°	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7	2098.7
2.5°	2131.3	2107.7	2071.8	2037.0	1999.9	1955.0	1905.6	1887.6	1856.2	1853.9	1871.9
5°	2129.1	2090.9	2028.0	1953.9	1848.3	1768.6	1682.1	1619.3	1571.0	1539.5	1547.4
7.5°	2140.3	2094.2	1985.3	1825.9	1690.0	1531.7	1398.0	1306.0	1221.7	1180.2	1175.7
10°	2122.3	2060.6	1901.1	1677.6	1477.8	1256.5	1061.2	937.6	811.9	765.8	768.1
12.5°	2132.4	2046.0	1810.1	1524.9	1249.8	962.3	728.8	560.3	442.4	404.3	399.8
15°	2139.2	2014.5	1722.6	1341.9	997.2	655.8	422.2	317.8	280.7	274.0	272.9
17.5°	2113.3	1976.3	1599.0	1161.1	738.9	398.6	280.7	259.4	252.7	248.2	245.9
20°	2112.2	1953.9	1492.4	975.8	493.0	271.7	242.6	234.7	224.6	221.2	221.2
22.5°	2093.1	1906.7	1364.3	772.6	314.4	233.6	217.8	205.5	194.3	189.8	188.7
25°	2087.5	1851.7	1244.2	580.6	239.2	208.9	193.1	175.2	161.7	155.0	151.6
27.5°	2071.8	1804.5	1122.9	408.7	208.9	186.4	166.2	147.1	131.4	121.3	120.2
30°	2015.6	1755.1	988.2	283.0	189.8	165.1	142.6	120.2	104.4	97.7	95.4
32.5°	1992.1	1709.1	841.1	217.8	172.9	146.0	120.2	99.9	87.6	80.9	79.7
35°	1964.0	1641.7	698.5	189.8	157.2	126.9	101.1	84.2	74.1	68.5	68.5
37.5°	1967.4	1587.8	564.8	171.8	140.4	108.9	86.5	71.9	62.9	57.3	57.3
40°	1957.3	1545.1	439.1	156.1	124.6	93.2	73.0	60.6	52.8	47.2	46.0
42.5°	2003.3	1533.9	331.3	142.6	108.9	79.7	62.9	51.7	43.8	37.1	37.1
45°	2080.8	1551.9	258.3	130.3	93.2	68.5	53.9	42.7	34.8	30.3	29.2
47.5°	2287.4	1622.6	202.1	120.2	79.7	59.5	44.9	34.8	28.1	23.6	22.5
50°	2587.2	1781.0	171.8	105.6	67.4	50.5	37.1	27.0	22.5	18.0	16.8
52.5°	3013.9	2047.1	156.1	93.2	56.1	41.5	29.2	21.3	16.8	13.5	12.4
55°	3478.8	2379.5	141.5	78.6	47.2	33.7	23.6	16.8	12.4	9.0	7.9
57.5°	3841.5	2666.9	129.1	65.1	38.2	27.0	18.0	12.4	9.0	5.6	4.5
60°	4237.9	2869.1	113.4	51.7	31.4	20.2	13.5	9.0	6.7	3.4	3.4
62.5°	4646.6	3106.0	93.2	40.4	24.7	15.7	10.1	6.7	4.5	1.1	1.1
65°	5214.8	3291.3	71.9	31.4	19.1	11.2	7.9	5.6	2.2	0.0	0.0
67.5°	5375.4	3200.3	52.8	24.7	13.5	7.9	5.6	3.4	1.1	0.0	0.0
69°	5214.8	2882.5	46.0	21.3	11.2	6.7	4.5	2.2	1.1	0.0	0.0
70°	4921.8	2635.5	40.4	18.0	10.1	6.7	3.4	2.2	1.1	0.0	0.0
72.5°	4116.6	2021.3	31.4	13.5	7.9	5.6	3.4	2.2	0.0	0.0	0.0
75°	3019.5	1248.7	23.6	10.1	6.7	4.5	3.4	2.2	0.0	0.0	0.0
77.5°	1618.1	455.9	16.8	6.7	4.5	3.4	3.4	2.2	0.0	0.0	0.0
80°	443.6	134.8	12.4	4.5	3.4	2.2	2.2	1.1	0.0	0.0	0.0
82.5°	121.3	34.8	7.9	4.5	3.4	2.2	1.1	0.0	0.0	0.0	0.0
85°	65.1	13.5	4.5	3.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	33.7	4.5	3.4	2.2	2.2	1.1	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)