

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: P483775

Luminaire Tested: **IFLD-S-SA3D-830-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483775  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-830-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

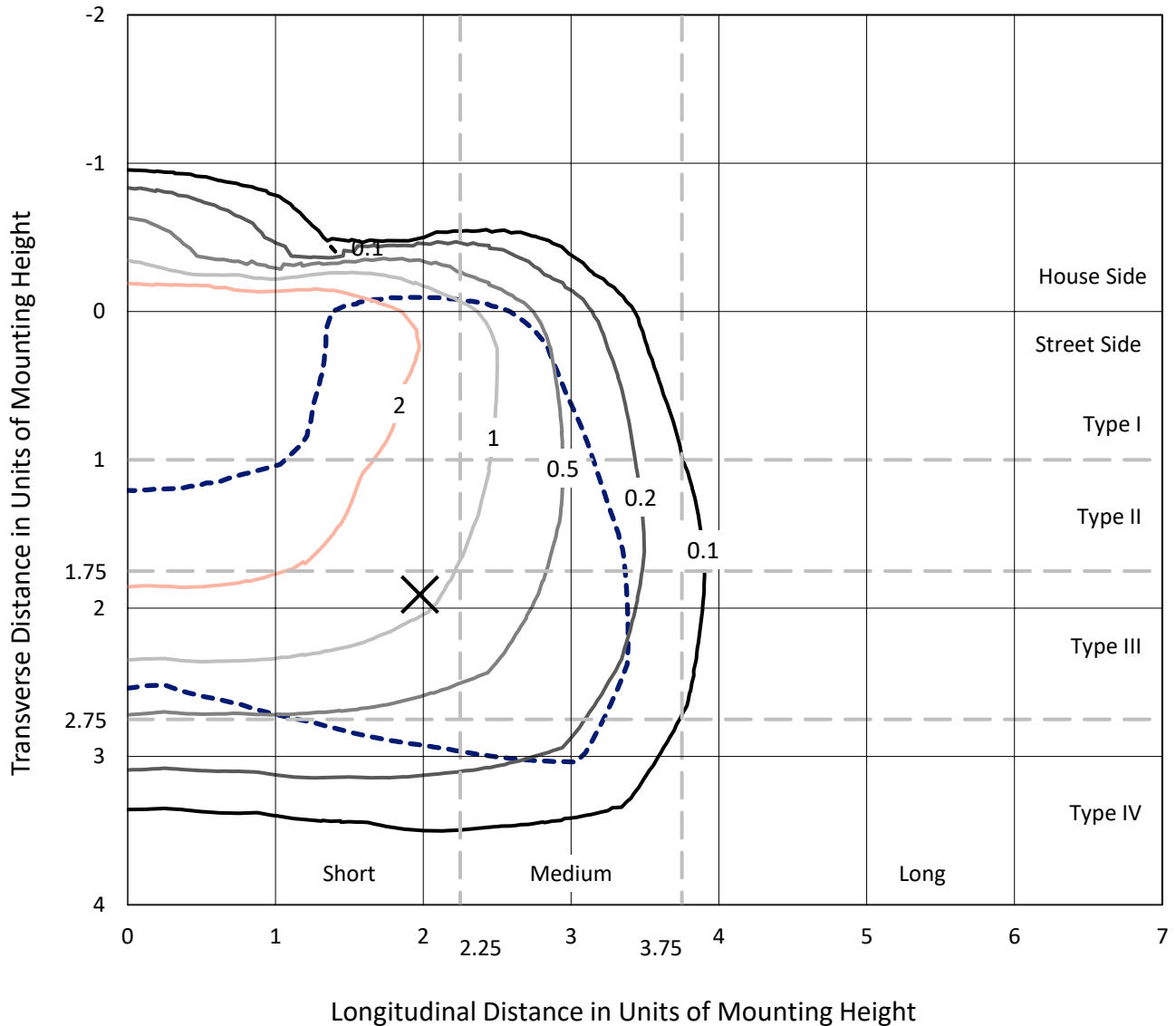
Lumens per Lamp: N/A  
Luminaire Lumens: 13664.5 lumens  
Efficiency: N/A  
Efficacy: 74.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

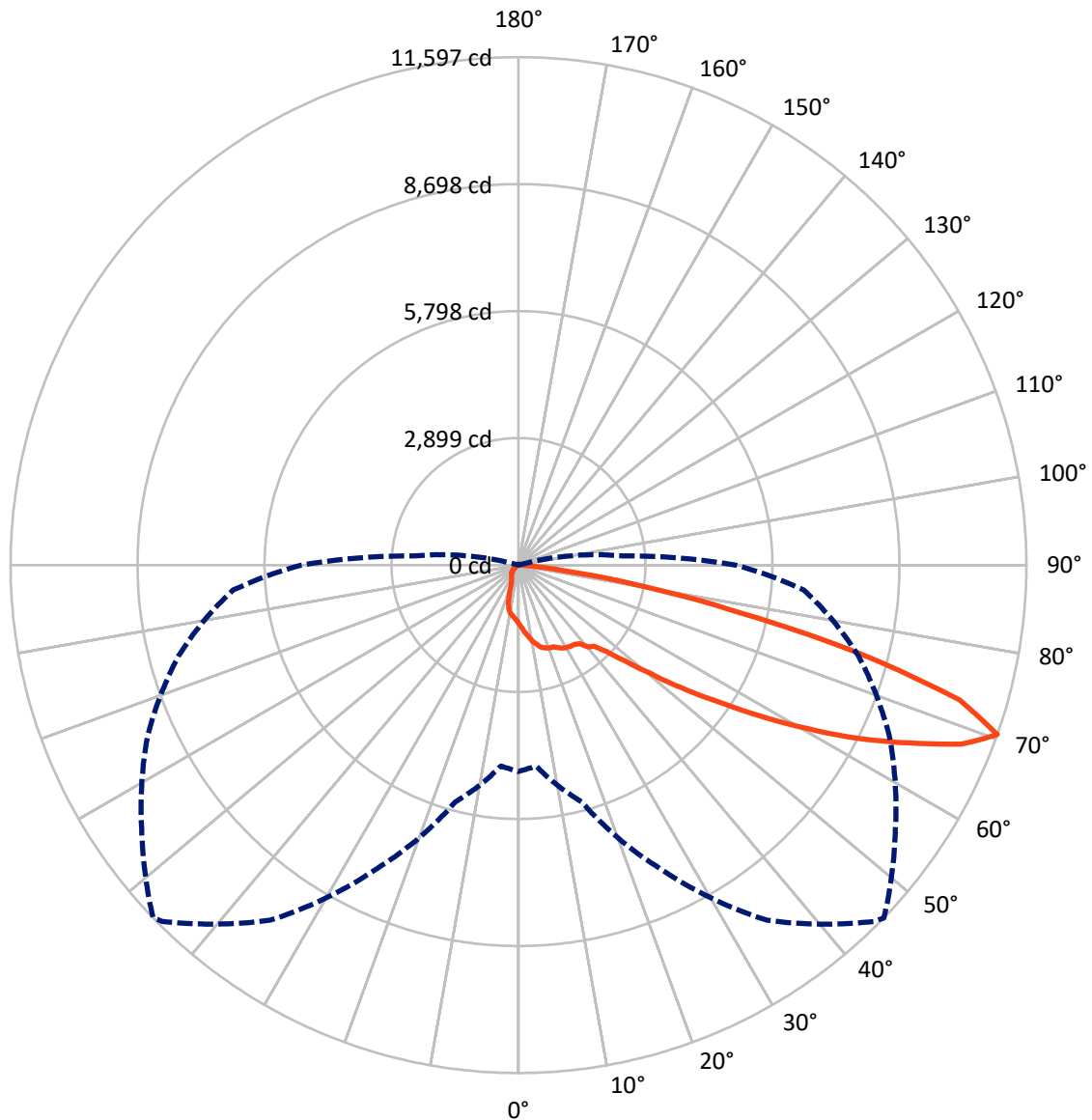
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1359.7	0.0	1359.7
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	12304.9	0.0	12304.9
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	13664.5	0.0	13664.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.8	1.0
10°-20°	403.9	3.0
20°-30°	647.0	4.7
30°-40°	923.5	6.8
40°-50°	1594.7	11.7
50°-60°	3053.1	22.3
60°-70°	4521.2	33.1
70°-80°	2239.3	16.4
80°-90°	148.0	1.1
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°	13664.5	100.0
0°-180°	13664.5	100.0



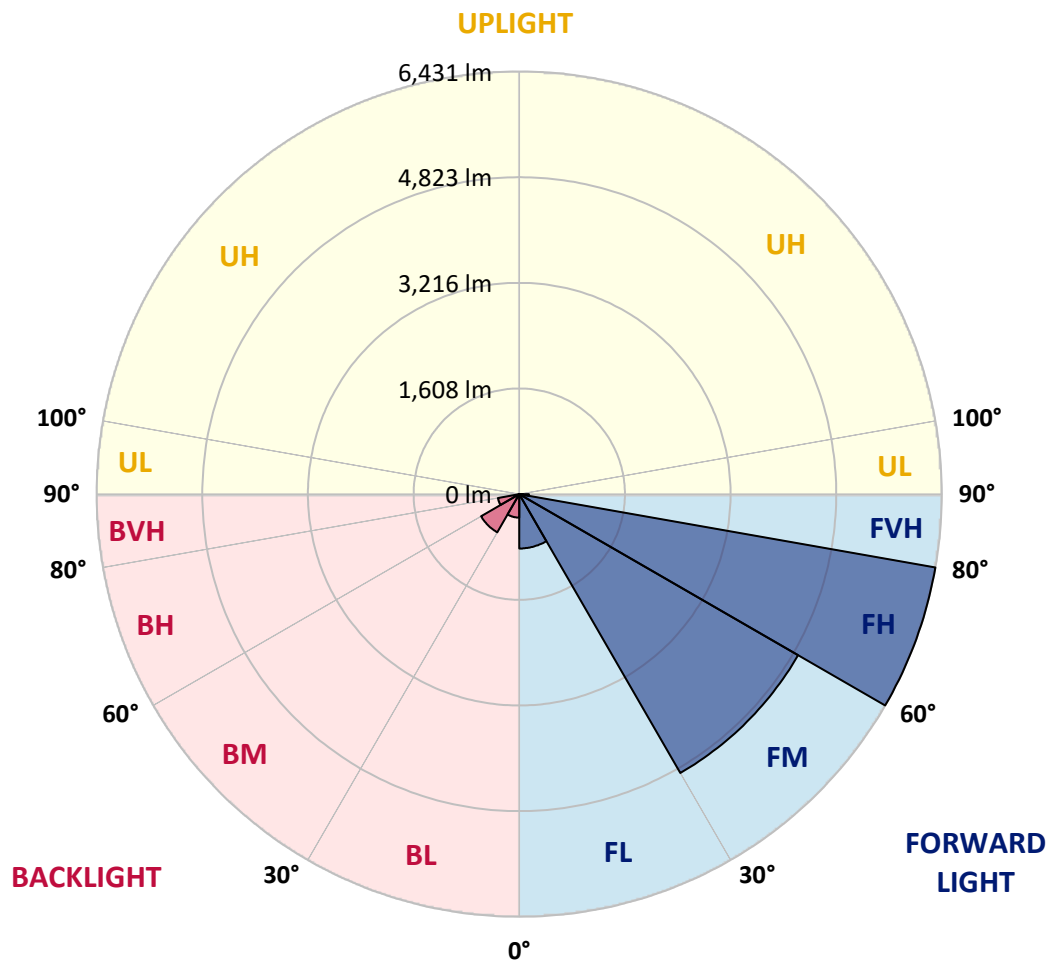
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	827.5	6.1			
FM (30°-60°)	4900.1	35.9			
FH (60°-80°)	6431.2	47.1			G3/7500
FVH (80°-90°)	146.1	1.1			G2/225
BL (0°-30°)	357.2	2.6	B1/500		
BM (30°-60°)	671.3	4.9	B1/1000		
BH (60°-80°)	329.3	2.4	B1/500		G1/500
BVH (80°-90°)	1.9	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°	35°	45°	46°	55°	65°	75°	85°
0°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1496.8	1487.0	1471.2	1465.3	1449.6	1441.7	1429.9	1424.0	1402.4	1380.8	1367.0
5°	1679.7	1656.1	1664.0	1640.4	1589.3	1548.0	1546.0	1500.8	1451.6	1412.2	1359.1
7.5°	1864.6	1845.0	1815.5	1782.0	1725.0	1664.0	1646.3	1603.0	1534.2	1465.3	1394.5
10°	2004.3	1990.5	1964.9	1917.7	1839.1	1770.2	1772.2	1699.4	1626.6	1548.0	1451.6
12.5°	2090.8	2096.7	2059.4	2012.1	1943.3	1856.8	1854.8	1805.6	1723.0	1640.4	1526.3
15°	2177.4	2199.0	2142.0	2086.9	1998.4	1935.4	1947.2	1888.2	1807.6	1713.2	1587.3
17.5°	2191.1	2197.0	2185.2	2104.6	2039.7	1986.6	1988.5	1949.2	1888.2	1786.0	1677.8
20°	2167.5	2163.6	2149.8	2090.8	2047.6	2016.1	2018.0	2008.2	1974.8	1892.2	1744.6
22.5°	2098.7	2098.7	2081.0	2041.7	2022.0	2051.5	2027.9	2065.3	2029.8	1980.7	1858.7
25°	2043.6	2065.3	2055.4	2029.8	2037.7	2077.1	2088.9	2124.3	2118.4	2057.4	1937.4
27.5°	2102.6	2077.1	2083.0	2053.5	2083.0	2142.0	2147.9	2173.4	2171.5	2122.3	2008.2
30°	2142.0	2165.6	2120.3	2055.4	2086.9	2187.2	2183.3	2216.7	2232.4	2173.4	2075.1
32.5°	2267.8	2248.2	2210.8	2124.3	2128.2	2185.2	2202.9	2246.2	2256.0	2220.6	2140.0
35°	2525.5	2496.0	2332.8	2202.9	2183.3	2210.8	2222.6	2307.2	2324.9	2285.5	2208.8
37.5°	2922.8	2856.0	2659.3	2372.1	2283.6	2277.7	2277.7	2389.8	2456.7	2366.2	2311.1
40°	3491.3	3396.9	3184.4	2684.8	2415.4	2439.0	2462.6	2523.5	2515.7	2456.7	2444.9
42.5°	4215.1	4142.3	3912.2	3210.0	2667.1	2549.1	2529.4	2612.1	2736.0	2712.4	2704.5
45°	4818.9	4822.9	4675.3	3929.9	3101.8	2802.8	2816.6	2879.6	3088.0	3070.3	3068.4
47.5°	5259.5	5204.4	5182.8	4624.2	3735.2	3284.7	3265.1	3308.3	3579.8	3691.9	3743.0
50°	5660.8	5623.4	5572.3	5298.9	4496.4	3888.6	3868.9	3872.8	4287.9	4445.2	4571.1
52.5°	6158.4	6205.6	6036.4	5869.3	5481.8	4673.4	4651.7	4575.0	5090.4	5306.7	5456.2
55°	6772.1	6683.6	6492.8	6579.3	6423.9	5521.1	5481.8	5391.3	6005.0	6095.4	6252.8
57.5°	6907.8	6840.9	7037.6	7344.4	7493.9	6516.4	6500.6	6337.4	6774.0	6691.4	7135.9
60°	7246.1	7263.8	7537.2	8146.9	8406.6	7665.0	7588.3	7301.2	7519.5	7535.2	8009.3
62.5°	7594.2	7552.9	8164.6	8750.8	9150.1	8752.7	8727.2	8156.8	8404.6	8204.0	8831.4
65°	7338.5	7401.5	8276.8	9258.2	10113.8	9816.8	9795.2	8980.9	9116.6	8866.8	9165.8
67.5°	6429.8	6302.0	7527.4	9026.1	10609.5	10932.1	10908.5	9879.8	9517.9	8862.9	8471.5
70°	4712.7	4602.6	5601.8	7643.4	9899.5	11502.5	11596.9	10505.3	9354.6	8036.8	6536.0
72.5°	2309.2	2311.1	3139.2	5182.8	7832.2	10483.6	10530.8	9632.0	8036.8	5924.3	3701.7
75°	682.5	690.4	1162.4	2541.2	5062.8	7962.0	8015.2	7311.0	5570.3	3060.5	1262.8
77.5°	249.8	249.8	385.5	954.0	2525.5	5025.5	5021.5	4488.5	2820.5	1036.6	295.0
80°	129.8	135.7	200.6	389.4	1093.6	2618.0	2716.3	2197.0	1072.0	436.7	86.5
82.5°	53.1	59.0	110.1	200.6	525.2	918.5	1005.1	861.5	466.2	304.9	39.3
85°	15.7	17.7	53.1	112.1	206.5	230.1	255.7	289.1	293.1	236.0	17.7
87.5°	2.0	2.0	21.6	37.4	45.2	49.2	57.0	57.0	149.5	165.2	9.8
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°	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4	1341.4
2.5°	1351.3	1341.4	1325.7	1290.3	1282.4	1256.9	1254.9	1231.3	1239.2	1223.4	1217.5
5°	1341.4	1319.8	1276.5	1249.0	1221.5	1203.7	1191.9	1182.1	1180.1	1172.3	1168.3
7.5°	1359.1	1329.6	1262.8	1219.5	1172.3	1156.5	1131.0	1129.0	1115.2	1101.5	1101.5
10°	1418.1	1365.0	1292.3	1219.5	1158.5	1107.4	1048.4	1005.1	989.4	954.0	957.9
12.5°	1465.3	1418.1	1311.9	1237.2	1144.7	1028.7	898.9	798.6	751.4	706.1	723.8
15°	1532.2	1463.4	1349.3	1241.1	1091.6	891.0	678.6	566.5	523.2	513.4	511.4
17.5°	1605.0	1532.2	1396.5	1231.3	983.5	688.4	499.6	434.7	442.6	454.4	452.4
20°	1685.6	1597.1	1431.9	1197.8	812.3	499.6	409.1	407.2	419.0	436.7	440.6
22.5°	1770.2	1693.5	1475.2	1097.5	605.8	401.2	393.4	393.4	401.2	422.9	419.0
25°	1864.6	1762.3	1496.8	942.1	434.7	369.8	373.7	381.6	385.5	403.2	405.2
27.5°	1937.4	1839.1	1502.7	755.3	354.0	342.2	352.1	361.9	367.8	381.6	387.5
30°	2004.3	1935.4	1471.2	562.5	324.5	318.6	322.6	336.3	348.1	359.9	359.9
32.5°	2088.9	1990.5	1398.5	399.3	306.8	297.0	295.0	300.9	314.7	328.5	328.5
35°	2175.4	2083.0	1282.4	320.6	291.1	277.3	269.5	263.6	269.5	279.3	287.2
37.5°	2301.3	2222.6	1136.9	295.0	279.3	259.6	243.9	230.1	220.3	218.3	224.2
40°	2480.3	2380.0	950.0	277.3	265.5	241.9	218.3	194.7	173.1	159.3	161.3
42.5°	2751.7	2612.1	747.4	267.5	255.7	222.3	188.8	155.4	127.8	114.1	114.1
45°	3139.2	2918.9	548.8	257.7	243.9	198.7	155.4	116.0	88.5	80.6	82.6
47.5°	3723.4	3288.7	393.4	241.9	228.2	173.1	121.9	82.6	64.9	61.0	62.9
50°	4486.5	3727.3	306.8	224.2	208.5	145.6	90.5	61.0	51.1	49.2	51.1
52.5°	5287.0	4169.8	269.5	208.5	179.0	116.0	66.9	49.2	43.3	41.3	43.3
55°	5971.5	4455.0	234.1	184.9	143.6	86.5	53.1	43.3	37.4	31.5	31.5
57.5°	6663.9	4598.6	184.9	153.4	106.2	64.9	45.2	37.4	31.5	25.6	23.6
60°	7226.4	4700.9	131.8	114.1	74.7	51.1	39.3	33.4	25.6	19.7	17.7
62.5°	7596.2	4407.8	96.4	86.5	55.1	43.3	33.4	27.5	19.7	13.8	13.8
65°	7413.3	4002.7	74.7	61.0	41.3	33.4	27.5	19.7	13.8	7.9	5.9
67.5°	6652.1	3261.1	61.0	45.2	31.5	25.6	21.6	15.7	7.9	2.0	2.0
70°	4962.5	2389.8	49.2	33.4	25.6	19.7	15.7	9.8	3.9	2.0	0.0
72.5°	2714.3	1308.0	39.3	27.5	19.7	15.7	11.8	7.9	3.9	0.0	0.0
75°	896.9	348.1	29.5	19.7	11.8	9.8	7.9	5.9	2.0	0.0	0.0
77.5°	216.4	90.5	23.6	17.7	9.8	5.9	3.9	2.0	2.0	0.0	0.0
80°	66.9	37.4	17.7	11.8	7.9	5.9	2.0	0.0	0.0	0.0	0.0
82.5°	27.5	17.7	7.9	7.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0
85°	13.8	9.8	5.9	3.9	3.9	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.8	3.9	2.0	2.0	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)