

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: P483358

Luminaire Tested: **IFLD-S-SA6A-827-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483358  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-827-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

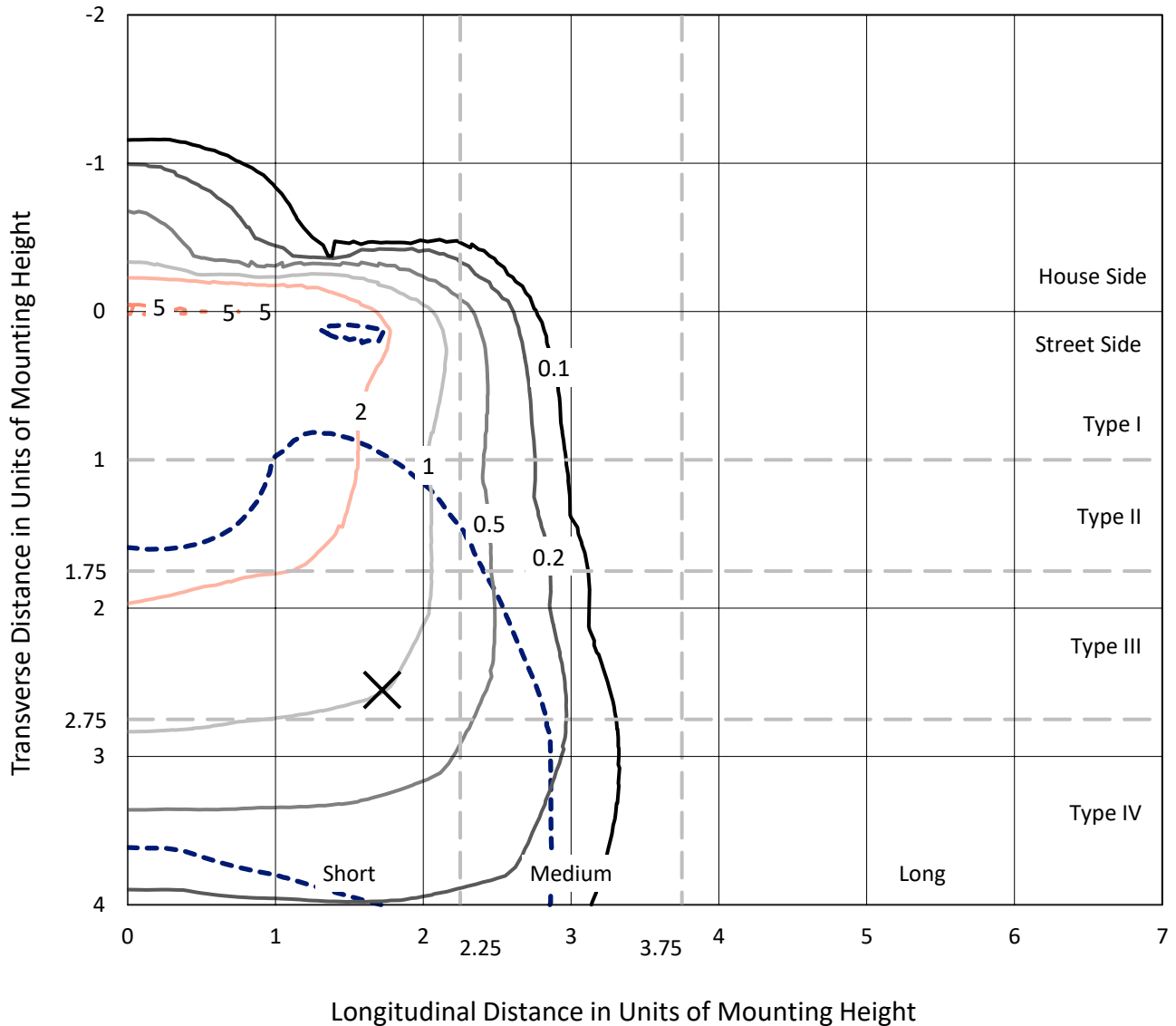
Lumens per Lamp: N/A  
Luminaire Lumens: 14346.3 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6  
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

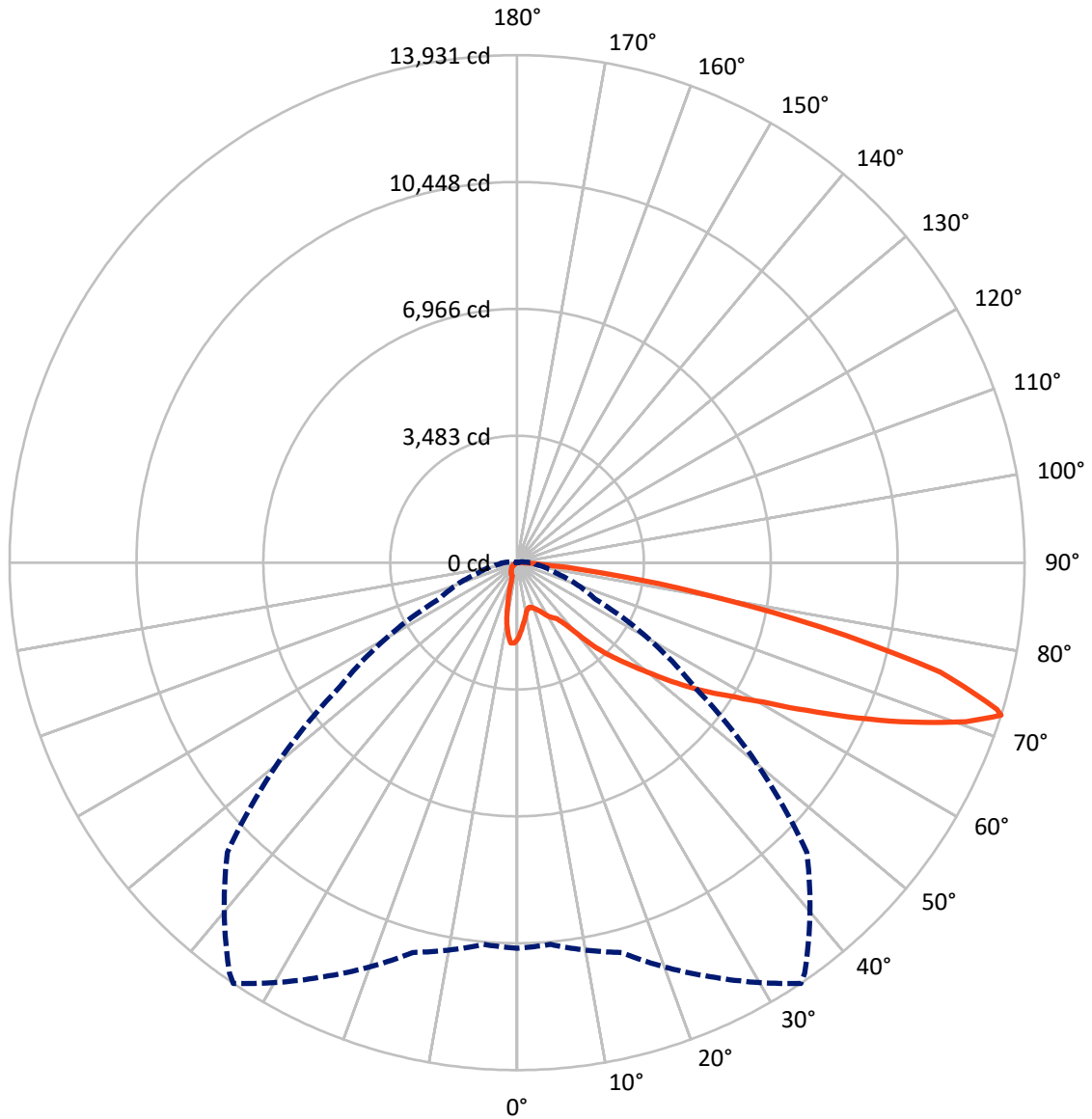
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 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	1468.7	0.0	1468.7
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	12877.6	0.0	12877.6
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	14346.3	0.0	14346.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.2	1.3
10°-20°	412.5	2.9
20°-30°	622.6	4.3
30°-40°	1010.4	7.0
40°-50°	1900.0	13.2
50°-60°	3106.5	21.7
60°-70°	4129.7	28.8
70°-80°	2765.6	19.3
80°-90°	216.7	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°	14346.3	100.0
0°-180°	14346.3	100.0



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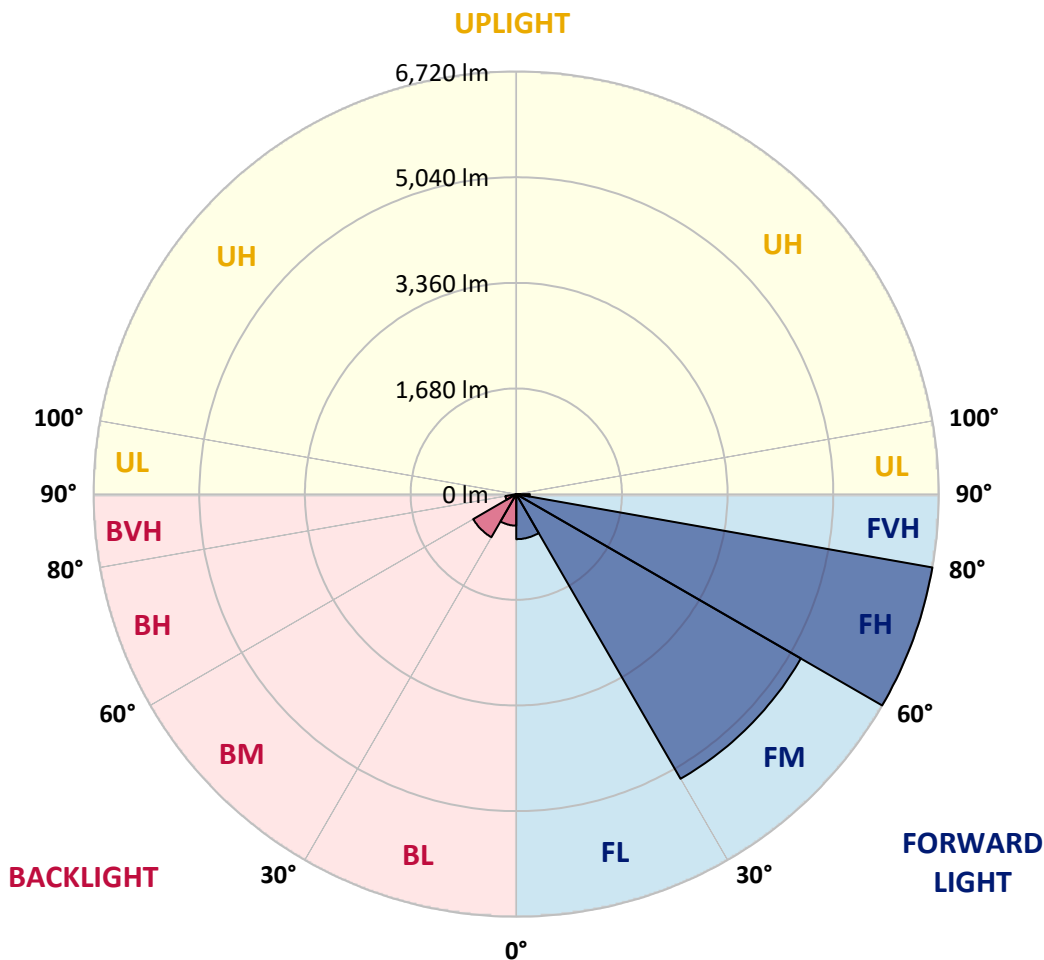
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	716.2	5.0			
FM (30°-60°)	5226.3	36.4			
FH (60°-80°)	6719.7	46.8			G3/7500
FVH (80°-90°)	215.4	1.5			G2/225
BL (0°-30°)	501.1	3.5	B2/1000		
BM (30°-60°)	790.6	5.5	B1/1000		
BH (60°-80°)	175.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9
2.5°	1856.2	1852.1	1864.5	1885.3	1906.0	1897.7	1937.1	1978.6	2007.6	2047.0	2094.7
5°	1621.9	1632.2	1644.7	1686.1	1713.1	1719.3	1791.9	1845.8	1935.0	2026.3	2111.3
7.5°	1408.2	1420.7	1445.6	1491.2	1547.2	1561.7	1634.3	1742.1	1858.3	1978.6	2117.5
10°	1252.7	1265.1	1292.1	1321.1	1395.8	1395.8	1495.3	1644.7	1796.1	1937.1	2119.6
12.5°	1219.5	1225.7	1223.7	1246.5	1294.2	1304.5	1402.0	1565.9	1742.1	1922.6	2152.8
15°	1258.9	1263.1	1242.3	1229.9	1271.4	1281.7	1373.0	1518.2	1706.9	1930.9	2206.7
17.5°	1337.7	1323.2	1281.7	1263.1	1298.3	1304.5	1389.6	1516.1	1702.7	1953.7	2268.9
20°	1383.3	1399.9	1327.3	1292.1	1341.9	1350.2	1441.4	1549.3	1723.5	1993.1	2356.0
22.5°	1464.2	1472.5	1375.1	1352.2	1399.9	1399.9	1503.6	1615.6	1773.3	2057.4	2459.7
25°	1578.3	1567.9	1453.9	1431.0	1476.7	1495.3	1599.0	1721.4	1850.0	2117.5	2555.1
27.5°	1667.5	1673.7	1580.4	1520.2	1597.0	1609.4	1721.4	1835.5	1908.1	2167.3	2671.3
30°	1800.2	1787.8	1688.2	1619.8	1715.2	1717.3	1825.1	1943.3	2020.1	2256.5	2845.5
32.5°	1957.8	1933.0	1818.9	1721.4	1798.1	1816.8	1926.7	2098.9	2194.3	2424.5	3115.1
35°	2291.8	2231.6	2044.9	1893.5	1899.8	1908.1	2078.1	2324.9	2434.9	2638.1	3476.0
37.5°	2779.1	2754.3	2542.7	2254.4	2144.5	2119.6	2310.4	2623.6	2760.5	2920.2	3944.7
40°	3262.4	3227.1	3030.1	2812.3	2613.2	2563.4	2658.8	3019.7	3144.2	3312.2	4425.9
42.5°	3799.5	3737.3	3505.0	3328.7	3204.3	3150.4	3113.1	3517.5	3658.5	3772.6	4896.7
45°	4342.9	4241.3	3905.3	3770.5	3704.1	3675.1	3671.0	4143.8	4228.9	4251.7	5419.3
47.5°	4819.9	4710.0	4405.1	4253.7	4204.0	4195.7	4428.0	4865.6	4799.2	4739.1	6002.1
50°	5187.0	5116.5	4896.7	4842.8	4805.4	4790.9	5334.3	5608.1	5301.1	5195.3	6514.4
52.5°	5755.3	5597.7	5348.8	5367.5	5498.1	5500.2	6253.1	6313.2	5718.0	5508.5	6997.6
55°	6209.5	6105.8	5902.6	5875.6	6219.9	6257.2	7076.4	6848.3	5950.3	5807.2	7176.0
57.5°	6744.6	6696.9	6549.6	6553.8	6914.7	6993.5	7808.6	7300.4	6143.1	6000.0	7202.9
60°	7518.2	7381.3	7304.6	7339.8	7765.0	7841.7	8517.9	7626.0	6236.5	6126.5	7136.6
62.5°	8372.7	8213.0	8130.0	8310.5	8930.6	8943.0	9057.1	7914.3	6178.4	6159.7	6709.3
65°	9401.4	9243.7	9177.4	9540.3	10276.6	10231.0	9814.1	8036.7	5993.8	5825.8	5587.3
67.5°	10425.9	10330.5	10193.6	10772.3	11689.0	11689.0	10600.1	7991.1	5510.6	4676.8	3654.4
70°	10911.2	10977.6	11195.4	12103.8	13076.5	12976.9	11375.8	7466.3	4102.3	2511.6	1437.3
72°	10587.7	10519.2	11081.3	12539.3	13931.0	13767.1	11245.1	5935.7	2370.6	1101.3	499.8
72.5°	10031.9	10096.2	10869.8	12479.2	13771.3	13906.1	10925.7	5475.3	1949.5	877.3	377.5
75°	6151.4	6261.4	8113.4	10596.0	12000.1	11848.7	8451.5	2609.1	748.7	373.3	134.8
77.5°	2246.1	2337.4	3936.4	6667.9	8534.4	8439.0	4890.5	927.1	406.5	277.9	68.4
80°	584.9	632.6	1337.7	3075.7	5019.0	5025.3	2047.0	371.2	275.8	228.1	41.5
82.5°	116.1	128.6	410.6	1196.7	2345.7	2314.6	647.1	199.1	207.4	186.7	29.0
85°	14.5	18.7	87.1	406.5	759.1	680.3	159.7	99.6	153.5	145.2	18.7
87.5°	2.1	2.1	20.7	93.3	159.7	155.5	33.2	31.1	68.4	89.2	10.4
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°	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9	2098.9
2.5°	2121.7	2130.0	2159.0	2183.9	2212.9	2221.2	2208.8	2229.5	2200.5	2217.1	2221.2
5°	2125.8	2173.5	2227.5	2262.7	2254.4	2233.7	2217.1	2161.1	2121.7	2107.2	2138.3
7.5°	2154.9	2208.8	2266.9	2266.9	2221.2	2113.4	2009.7	1910.1	1827.2	1785.7	1821.0
10°	2192.2	2248.2	2308.3	2229.5	2059.5	1862.4	1715.2	1528.5	1402.0	1335.6	1341.9
12.5°	2242.0	2320.8	2341.5	2159.0	1877.0	1584.5	1317.0	1057.7	937.4	842.0	844.1
15°	2306.3	2383.0	2320.8	2005.5	1644.7	1213.3	891.8	645.0	549.6	499.8	499.8
17.5°	2391.3	2449.4	2314.6	1864.5	1331.5	829.6	547.5	435.5	414.8	406.5	406.5
20°	2490.9	2534.4	2254.4	1644.7	989.3	533.0	402.4	389.9	392.0	387.8	387.8
22.5°	2602.9	2617.4	2186.0	1389.6	669.9	394.1	375.4	377.5	379.5	375.4	377.5
25°	2721.1	2681.7	2086.4	1090.9	445.9	358.8	362.9	367.1	369.2	371.2	371.2
27.5°	2853.8	2775.0	1947.5	798.5	348.4	338.1	350.5	362.9	365.0	365.0	362.9
30°	3048.8	2918.1	1812.7	541.3	306.9	315.2	336.0	350.5	360.9	360.9	358.8
32.5°	3295.6	3067.4	1623.9	369.2	284.1	288.3	304.9	333.9	356.7	358.8	352.6
35°	3637.8	3247.9	1426.9	294.5	267.5	269.6	280.0	302.8	342.2	354.7	352.6
37.5°	3998.6	3453.2	1182.2	265.5	255.1	253.0	259.2	277.9	313.2	344.3	346.4
40°	4382.3	3668.9	925.0	251.0	244.7	240.6	242.7	251.0	277.9	317.3	325.6
42.5°	4743.2	3863.8	694.8	236.4	234.4	230.2	230.2	232.3	246.8	273.8	277.9
45°	5133.1	4023.5	528.9	226.1	219.8	221.9	213.6	209.5	219.8	221.9	219.8
47.5°	5498.1	4183.2	423.1	213.6	207.4	207.4	197.0	188.7	188.7	170.1	168.0
50°	5840.3	4270.3	338.1	197.0	195.0	192.9	178.4	163.8	151.4	128.6	124.4
52.5°	6124.5	4266.2	261.3	176.3	182.5	176.3	153.5	132.7	114.1	93.3	89.2
55°	6209.5	4067.1	197.0	145.2	155.5	147.3	122.4	103.7	83.0	66.4	64.3
57.5°	6136.9	3764.3	149.3	112.0	120.3	112.0	93.3	76.7	58.1	45.6	41.5
60°	5894.3	3409.6	116.1	87.1	91.3	85.0	70.5	58.1	41.5	29.0	24.9
62.5°	5433.8	2965.8	89.2	68.4	66.4	66.4	53.9	43.6	29.0	16.6	14.5
65°	4459.1	2312.5	68.4	47.7	47.7	47.7	41.5	31.1	18.7	8.3	4.1
67.5°	2799.9	1346.0	56.0	37.3	35.3	35.3	29.0	20.7	10.4	2.1	0.0
70°	1053.6	493.6	43.6	29.0	27.0	27.0	20.7	12.4	6.2	0.0	0.0
72°	362.9	188.7	35.3	20.7	20.7	18.7	14.5	10.4	4.1	0.0	0.0
72.5°	298.7	151.4	33.2	20.7	18.7	18.7	14.5	10.4	4.1	0.0	0.0
75°	107.8	62.2	22.8	14.5	12.4	12.4	10.4	6.2	2.1	0.0	0.0
77.5°	53.9	39.4	18.7	12.4	10.4	6.2	6.2	4.1	2.1	0.0	0.0
80°	33.2	24.9	10.4	8.3	6.2	4.1	2.1	2.1	0.0	0.0	0.0
82.5°	22.8	14.5	6.2	6.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0
85°	14.5	6.2	4.1	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.2	4.1	2.1	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)