

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: P483501

Luminaire Tested: **IFLD-S-SA3C-727-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483501  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-727-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

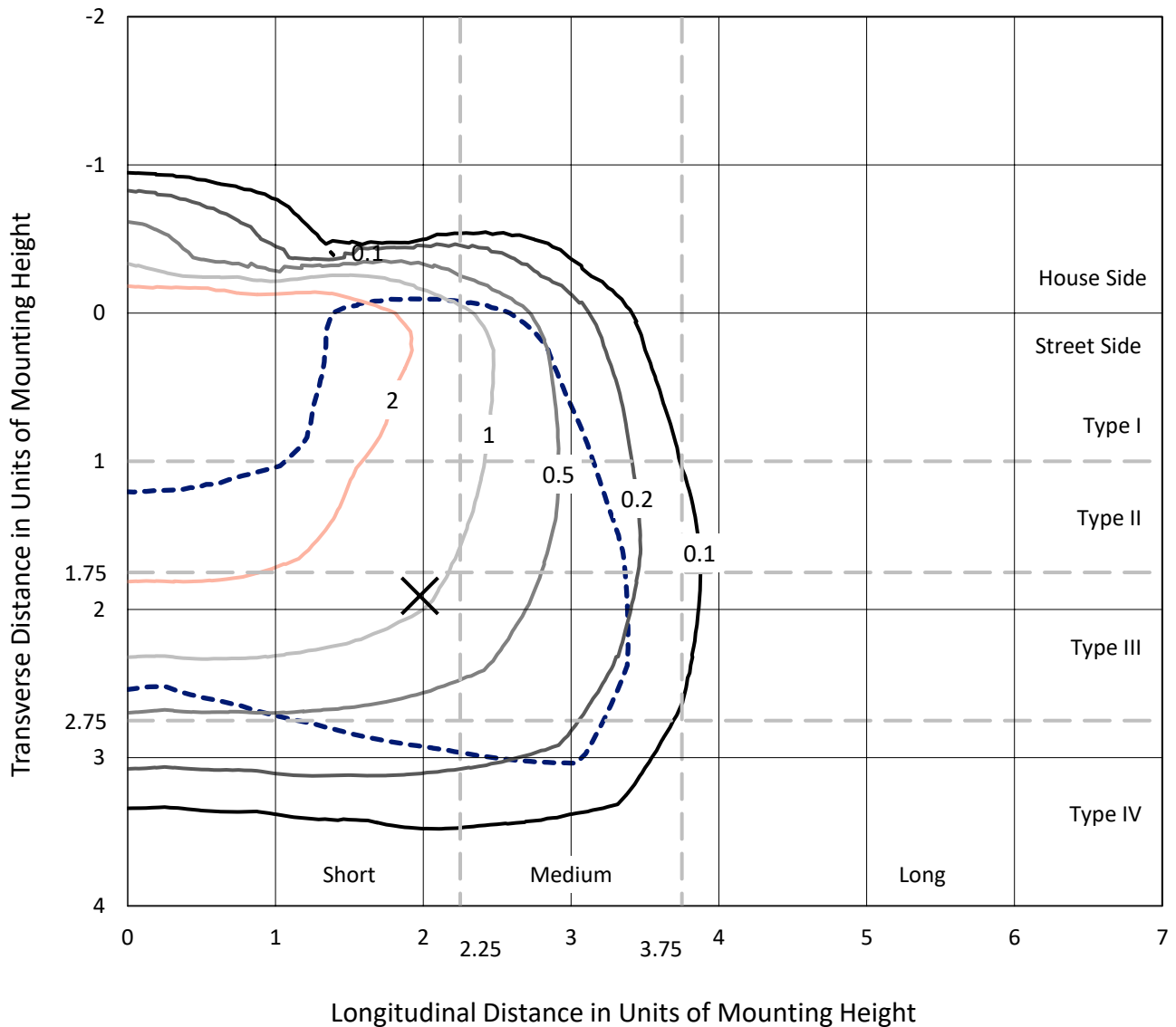
Lumens per Lamp: N/A  
Luminaire Lumens: 13070.4 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8  
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

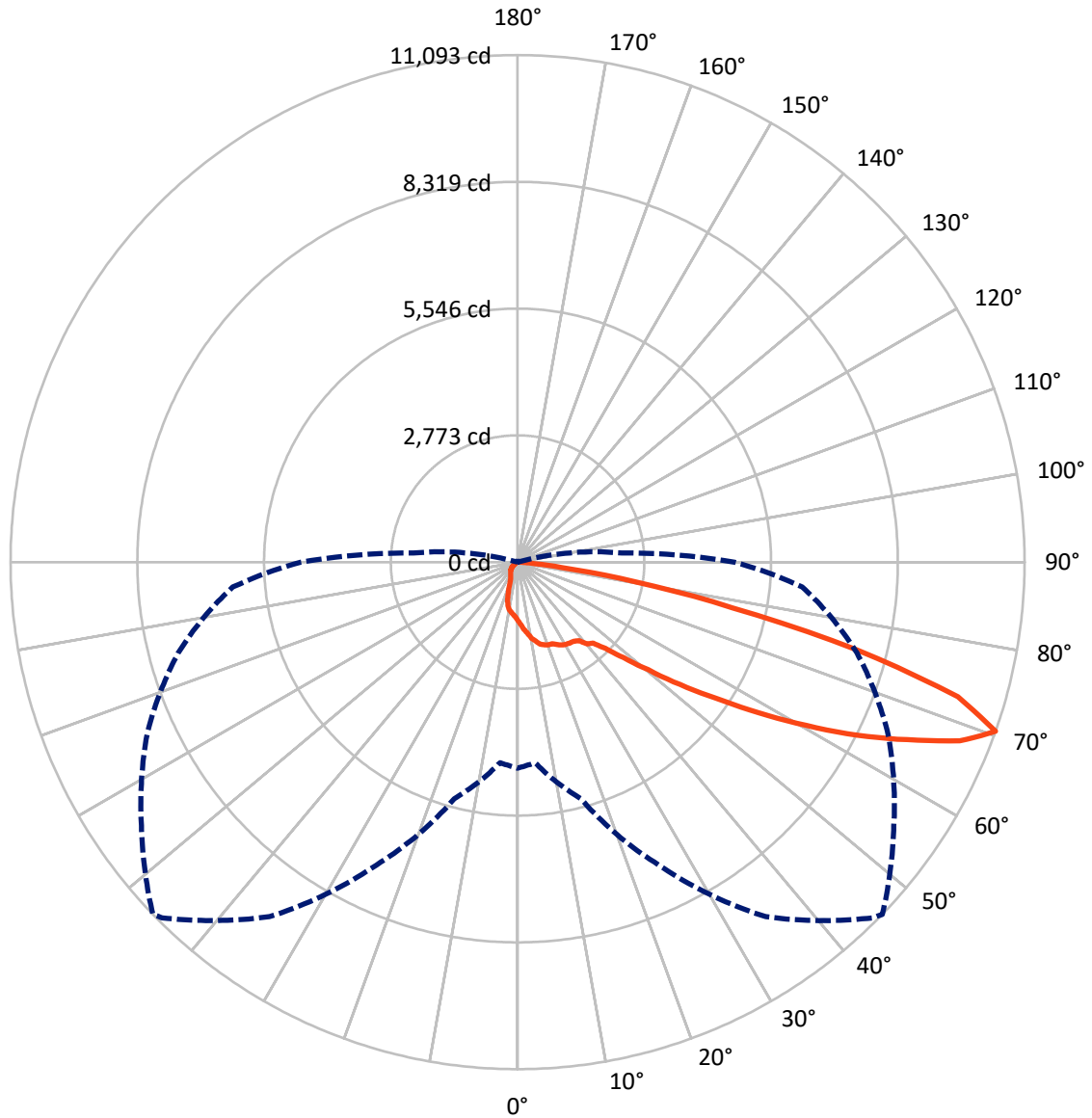
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.7 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	1300.5	0.0	1300.5
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	11769.8	0.0	11769.8
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	13070.4	0.0	13070.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.9	1.0
10°-20°	386.4	3.0
20°-30°	618.9	4.7
30°-40°	883.4	6.8
40°-50°	1525.3	11.7
50°-60°	2920.4	22.3
60°-70°	4324.6	33.1
70°-80°	2141.9	16.4
80°-90°	141.5	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°	13070.4	100.0
0°-180°	13070.4	100.0



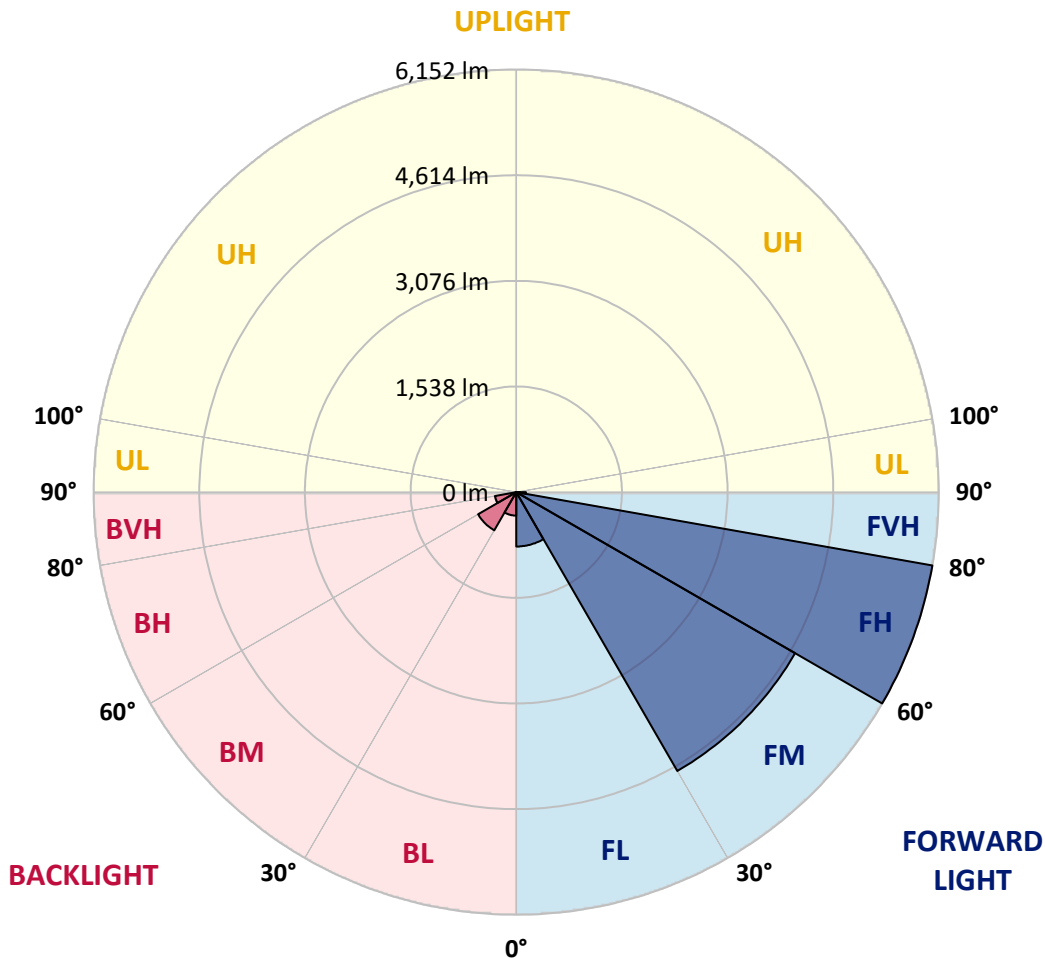
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	791.5	6.1			
FM (30°-60°)	4687.0	35.9			
FH (60°-80°)	6151.6	47.1			G3/7500
FVH (80°-90°)	139.7	1.1			G2/225
BL (0°-30°)	341.7	2.6	B1/500		
BM (30°-60°)	642.1	4.9	B1/1000		
BH (60°-80°)	315.0	2.4	B1/500		G1/500
BVH (80°-90°)	1.8	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1
2.5°	1431.7	1422.3	1407.3	1401.6	1386.6	1379.1	1367.8	1362.1	1341.4	1320.7	1307.6
5°	1606.7	1584.1	1591.7	1569.1	1520.2	1480.6	1478.8	1435.5	1388.5	1350.8	1300.0
7.5°	1783.6	1764.7	1736.5	1704.5	1650.0	1591.7	1574.7	1533.3	1467.5	1401.6	1333.9
10°	1917.1	1904.0	1879.5	1834.4	1759.1	1693.2	1695.1	1625.5	1555.9	1480.6	1388.5
12.5°	1999.9	2005.6	1969.8	1924.7	1858.8	1776.0	1774.1	1727.1	1648.1	1569.1	1460.0
15°	2082.7	2103.4	2048.8	1996.1	1911.5	1851.3	1862.6	1806.1	1729.0	1638.7	1518.3
17.5°	2095.9	2101.5	2090.2	2013.1	1951.0	1900.2	1902.1	1864.5	1806.1	1708.3	1604.8
20°	2073.3	2069.5	2056.4	1999.9	1958.5	1928.4	1930.3	1920.9	1888.9	1809.9	1668.8
22.5°	2007.4	2007.4	1990.5	1952.9	1934.1	1962.3	1939.7	1975.5	1941.6	1894.6	1777.9
25°	1954.8	1975.5	1966.0	1941.6	1949.1	1986.7	1998.0	2031.9	2026.3	1967.9	1853.2
27.5°	2011.2	1986.7	1992.4	1964.2	1992.4	2048.8	2054.5	2078.9	2077.0	2030.0	1920.9
30°	2048.8	2071.4	2028.1	1966.0	1996.1	2092.1	2088.3	2120.3	2135.4	2078.9	1984.9
32.5°	2169.2	2150.4	2114.7	2031.9	2035.7	2090.2	2107.2	2148.5	2157.9	2124.1	2046.9
35°	2415.7	2387.5	2231.3	2107.2	2088.3	2114.7	2126.0	2206.9	2223.8	2186.2	2112.8
37.5°	2795.7	2731.8	2543.6	2269.0	2184.3	2178.6	2178.6	2285.9	2349.8	2263.3	2210.6
40°	3339.5	3249.2	3046.0	2568.1	2310.3	2332.9	2355.5	2413.8	2406.3	2349.8	2338.6
42.5°	4031.8	3962.2	3742.1	3070.4	2551.2	2438.3	2419.5	2498.5	2617.0	2594.4	2586.9
45°	4609.4	4613.2	4472.1	3759.0	2966.9	2681.0	2694.1	2754.3	2953.8	2936.8	2935.0
47.5°	5030.8	4978.1	4957.4	4423.1	3572.7	3141.9	3123.1	3164.5	3424.1	3531.4	3580.3
50°	5414.6	5378.9	5330.0	5068.5	4300.8	3719.5	3700.7	3704.4	4101.4	4251.9	4372.3
52.5°	5890.6	5935.8	5774.0	5614.1	5243.4	4470.2	4449.5	4376.1	4869.0	5076.0	5219.0
55°	6477.6	6392.9	6210.5	6293.2	6144.6	5281.0	5243.4	5156.9	5743.9	5830.4	5980.9
57.5°	6607.4	6543.5	6731.6	7025.1	7168.1	6233.0	6218.0	6061.8	6479.5	6400.5	6825.7
60°	6931.0	6948.0	7209.5	7792.7	8041.0	7331.8	7258.4	6983.7	7192.5	7207.6	7661.0
62.5°	7264.0	7224.5	7809.6	8370.3	8752.2	8372.2	8347.7	7802.1	8039.2	7847.3	8447.4
65°	7019.4	7079.7	7916.9	8855.7	9674.1	9390.0	9369.3	8590.4	8720.2	8481.3	8767.3
67.5°	6150.2	6028.0	7200.1	8633.7	10148.2	10456.7	10434.2	9450.2	9104.0	8477.5	8103.1
70°	4507.8	4402.4	5358.2	7311.1	9469.0	11002.3	11092.6	10048.5	8947.9	7687.3	6251.8
72.5°	2208.7	2210.6	3002.7	4957.4	7491.7	10027.8	10072.9	9213.1	7687.3	5666.7	3540.8
75°	652.8	660.4	1111.9	2430.7	4842.7	7615.8	7666.6	6993.1	5328.1	2927.4	1207.8
77.5°	238.9	238.9	368.8	912.5	2415.7	4806.9	4803.2	4293.3	2697.9	991.5	282.2
80°	124.2	129.8	191.9	372.5	1046.0	2504.1	2598.2	2101.5	1025.4	417.7	82.8
82.5°	50.8	56.4	105.4	191.9	502.3	878.6	961.4	824.0	445.9	291.6	37.6
85°	15.1	16.9	50.8	107.2	197.5	220.1	244.6	276.6	280.3	225.8	16.9
87.5°	1.9	1.9	20.7	35.7	43.3	47.0	54.6	54.6	143.0	158.0	9.4
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°	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1	1283.1
2.5°	1292.5	1283.1	1268.1	1234.2	1226.7	1202.2	1200.3	1177.7	1185.3	1170.2	1164.6
5°	1283.1	1262.4	1221.0	1194.7	1168.3	1151.4	1140.1	1130.7	1128.8	1121.3	1117.5
7.5°	1300.0	1271.8	1207.8	1166.5	1121.3	1106.3	1081.8	1079.9	1066.7	1053.6	1053.6
10°	1356.5	1305.7	1236.1	1166.5	1108.1	1059.2	1002.8	961.4	946.3	912.5	916.2
12.5°	1401.6	1356.5	1254.9	1183.4	1095.0	984.0	859.8	763.8	718.7	675.4	692.3
15°	1465.6	1399.8	1290.6	1187.2	1044.2	852.3	649.1	541.8	500.4	491.0	489.2
17.5°	1535.2	1465.6	1335.8	1177.7	940.7	658.5	477.9	415.8	423.3	434.6	432.7
20°	1612.3	1527.7	1369.6	1145.8	777.0	477.9	391.3	389.4	400.7	417.7	421.4
22.5°	1693.2	1619.9	1411.0	1049.8	579.5	383.8	376.3	376.3	383.8	404.5	400.7
25°	1783.6	1685.7	1431.7	901.2	415.8	353.7	357.5	365.0	368.8	385.7	387.6
27.5°	1853.2	1759.1	1437.4	722.5	338.6	327.4	336.8	346.2	351.8	365.0	370.6
30°	1917.1	1851.3	1407.3	538.1	310.4	304.8	308.5	321.7	333.0	344.3	344.3
32.5°	1998.0	1904.0	1337.7	381.9	293.5	284.1	282.2	287.9	301.0	314.2	314.2
35°	2080.8	1992.4	1226.7	306.7	278.4	265.3	257.7	252.1	257.7	267.2	274.7
37.5°	2201.2	2126.0	1087.4	282.2	267.2	248.3	233.3	220.1	210.7	208.8	214.5
40°	2372.4	2276.5	908.7	265.3	254.0	231.4	208.8	186.3	165.6	152.4	154.3
42.5°	2632.1	2498.5	714.9	255.9	244.6	212.6	180.6	148.6	122.3	109.1	109.1
45°	3002.7	2792.0	524.9	246.5	233.3	190.0	148.6	111.0	84.7	77.1	79.0
47.5°	3561.5	3145.7	376.3	231.4	218.2	165.6	116.6	79.0	62.1	58.3	60.2
50°	4291.4	3565.2	293.5	214.5	199.4	139.2	86.5	58.3	48.9	47.0	48.9
52.5°	5057.2	3988.5	257.7	199.4	171.2	111.0	64.0	47.0	41.4	39.5	41.4
55°	5711.9	4261.3	223.9	176.9	137.3	82.8	50.8	41.4	35.7	30.1	30.1
57.5°	6374.1	4398.7	176.9	146.7	101.6	62.1	43.3	35.7	30.1	24.5	22.6
60°	6912.2	4496.5	126.1	109.1	71.5	48.9	37.6	32.0	24.5	18.8	16.9
62.5°	7265.9	4216.2	92.2	82.8	52.7	41.4	32.0	26.3	18.8	13.2	13.2
65°	7090.9	3828.6	71.5	58.3	39.5	32.0	26.3	18.8	13.2	7.5	5.6
67.5°	6362.8	3119.3	58.3	43.3	30.1	24.5	20.7	15.1	7.5	1.9	1.9
70°	4746.7	2285.9	47.0	32.0	24.5	18.8	15.1	9.4	3.8	1.9	0.0
72.5°	2596.3	1251.1	37.6	26.3	18.8	15.1	11.3	7.5	3.8	0.0	0.0
75°	857.9	333.0	28.2	18.8	11.3	9.4	7.5	5.6	1.9	0.0	0.0
77.5°	207.0	86.5	22.6	16.9	9.4	5.6	3.8	1.9	1.9	0.0	0.0
80°	64.0	35.7	16.9	11.3	7.5	5.6	1.9	0.0	0.0	0.0	0.0
82.5°	26.3	16.9	7.5	7.5	5.6	1.9	0.0	0.0	0.0	0.0	0.0
85°	13.2	9.4	5.6	3.8	3.8	1.9	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	3.8	1.9	1.9	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)