

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: P482624

Luminaire Tested: **IFLD-M-SA4C-830-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482624  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-830-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

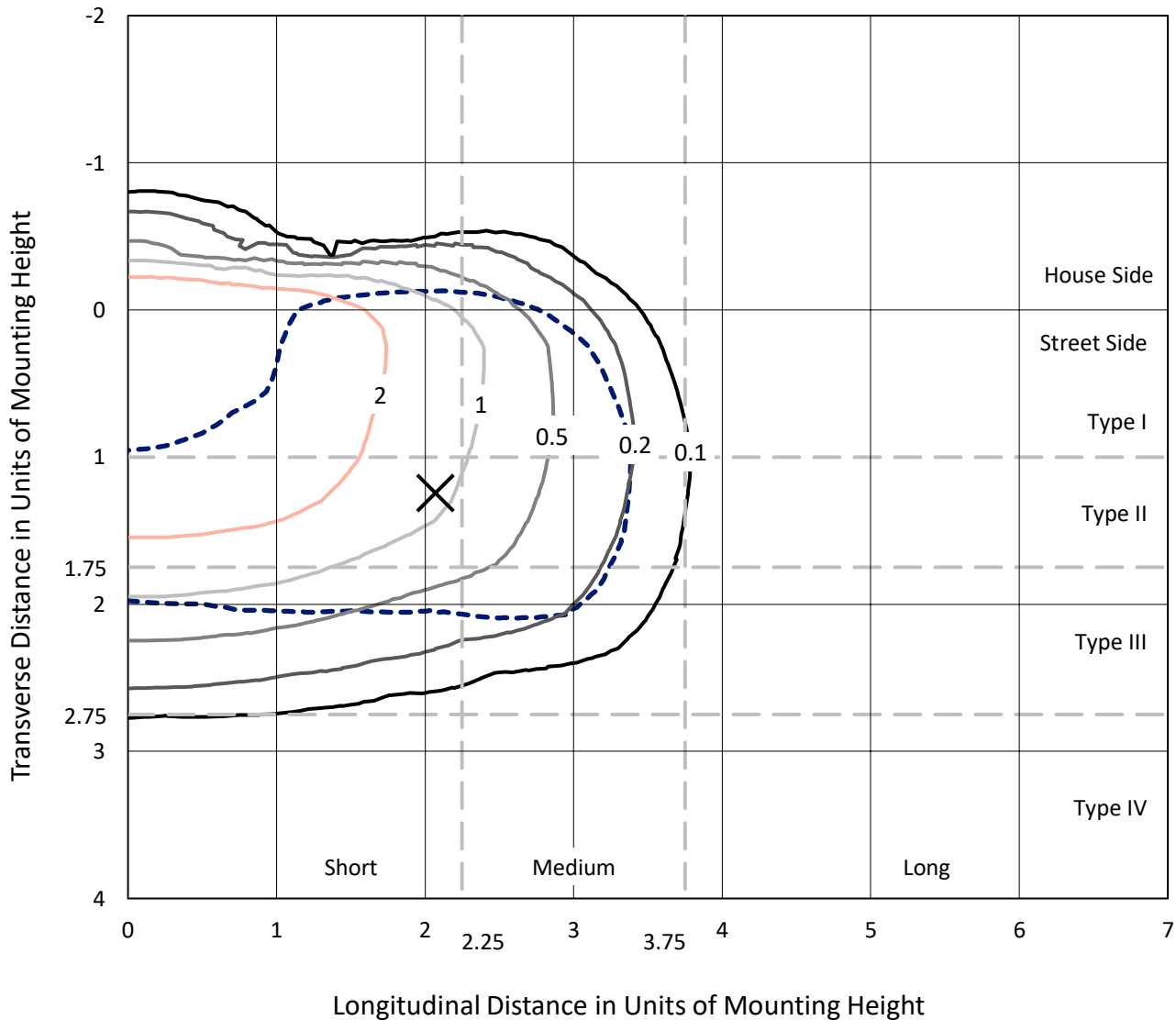
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16763.7 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

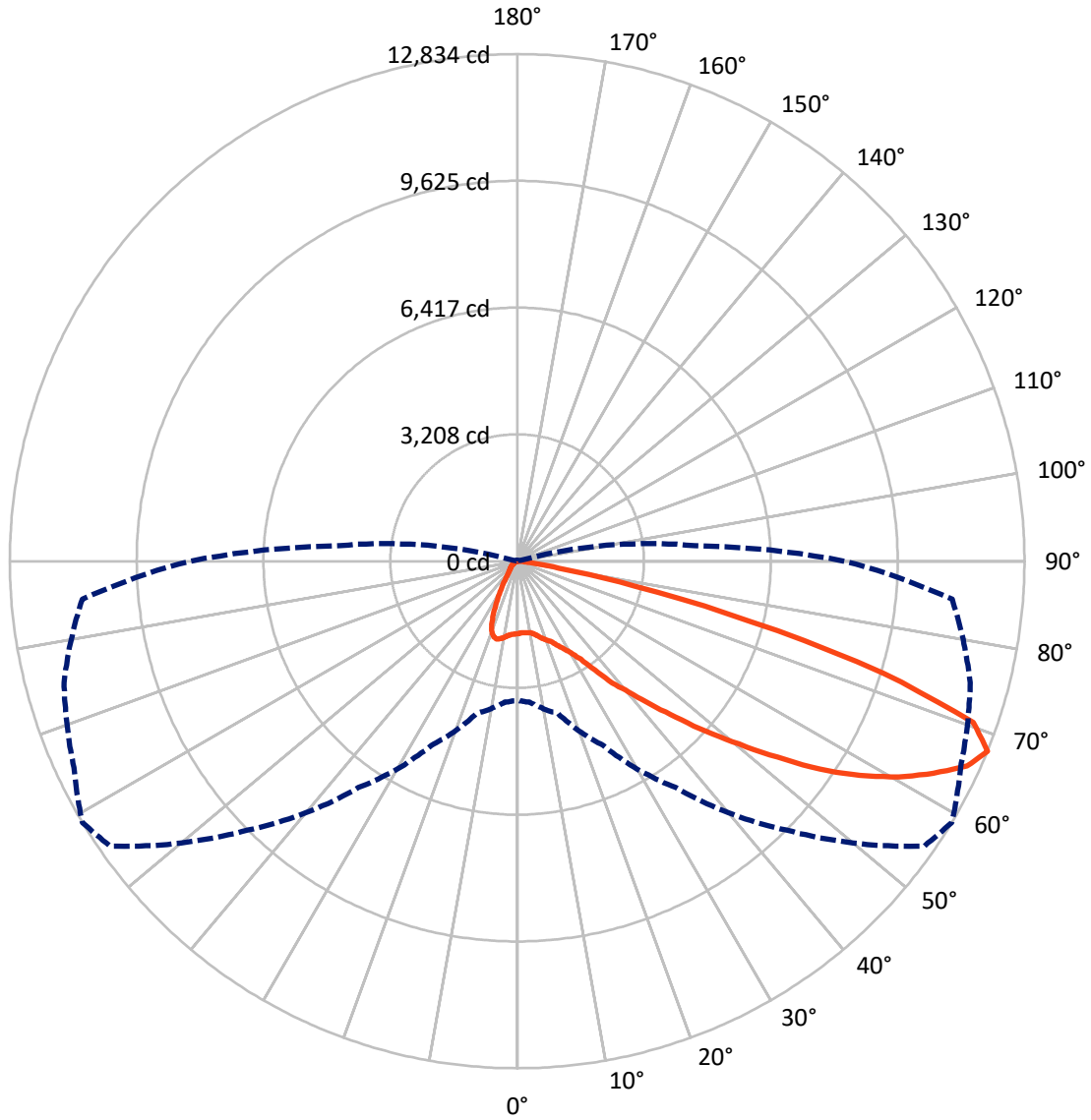
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1969.2	0.0	1969.2
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	14794.5	0.0	14794.5
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	16763.7	0.0	16763.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	1.0
10°-20°	504.5	3.0
20°-30°	881.8	5.3
30°-40°	1552.4	9.3
40°-50°	2744.2	16.4
50°-60°	4345.0	25.9
60°-70°	4819.8	28.8
70°-80°	1672.4	10.0
80°-90°	68.9	0.4
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°	16763.7	100.0
0°-180°	16763.7	100.0

**Coefficient of Utilization**



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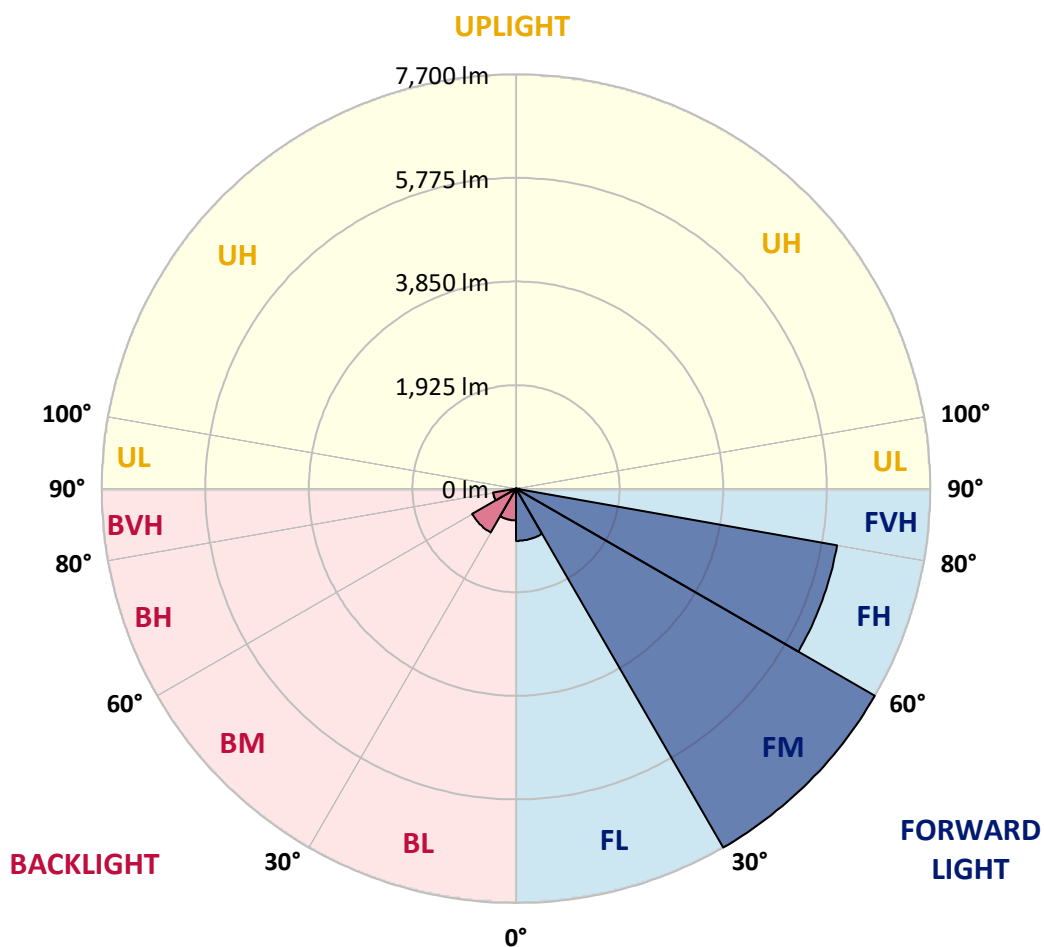
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	970.7	5.8			
FM (30°-60°)	7700.2	45.9			
FH (60°-80°)	6059.2	36.1			G3/7500
FVH (80°-90°)	64.4	0.4			G1/100
BL (0°-30°)	590.2	3.5	B2/1000		
BM (30°-60°)	941.5	5.6	B1/1000		
BH (60°-80°)	433.1	2.6	B1/500		G1/500
BVH (80°-90°)	4.5	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7
2.5°	1785.4	1759.9	1783.1	1785.4	1787.7	1808.6	1831.7	1815.5	1813.2	1831.7	1847.9
5°	1713.6	1702.0	1729.8	1743.7	1766.9	1785.4	1822.5	1824.8	1827.1	1847.9	1875.7
7.5°	1683.5	1655.7	1688.2	1704.4	1720.6	1764.6	1808.6	1831.7	1864.1	1889.6	1917.4
10°	1623.3	1644.2	1653.4	1681.2	1727.5	1778.5	1831.7	1843.3	1915.1	1935.9	2003.1
12.5°	1644.2	1658.0	1676.6	1683.5	1734.5	1810.9	1882.7	1887.3	1961.4	2051.7	2086.5
15°	1697.4	1688.2	1695.1	1704.4	1764.6	1827.1	1942.9	1963.7	2033.2	2135.1	2220.8
17.5°	1810.9	1794.7	1783.1	1780.8	1794.7	1852.6	1989.2	2051.7	2116.6	2255.5	2299.5
20°	2095.7	2081.8	2035.5	1915.1	1873.4	1896.6	2044.8	2132.8	2223.1	2378.2	2450.0
22.5°	2528.8	2542.6	2433.8	2264.8	2091.1	2000.8	2132.8	2209.2	2352.8	2549.6	2614.4
25°	3040.5	3012.7	2880.7	2683.9	2410.7	2197.6	2274.0	2359.7	2535.7	2697.8	2723.3
27.5°	3441.1	3408.7	3306.8	3068.3	2832.1	2487.1	2459.3	2512.5	2721.0	2866.8	2839.1
30°	3837.1	3848.7	3779.2	3496.7	3204.9	2841.4	2665.4	2688.5	2848.3	3035.9	2973.4
32.5°	4342.0	4314.2	4274.8	4027.0	3682.0	3292.9	2991.9	2954.8	3024.3	3272.1	3198.0
35°	4812.0	4795.8	4742.6	4492.5	4191.4	3767.7	3473.6	3390.2	3374.0	3649.6	3519.9
37.5°	5221.9	5194.1	5113.1	4953.3	4661.5	4304.9	3983.0	3908.9	3906.6	4096.5	3846.4
40°	5567.0	5587.8	5578.5	5402.6	5242.8	4957.9	4464.7	4346.6	4337.3	4439.2	4293.3
42.5°	6013.9	6062.5	6037.1	6002.3	5810.1	5699.0	5140.9	4960.3	4879.2	5087.6	4955.6
45°	6690.1	6708.6	6724.8	6639.1	6446.9	6470.1	5840.2	5624.9	5604.0	5914.3	5617.9
47.5°	7322.3	7273.6	7387.1	7391.7	7382.5	7276.0	6595.1	6435.4	6463.1	6699.3	6393.7
50°	7479.7	7604.8	7917.4	7975.3	8125.8	8223.1	7433.4	7273.6	7320.0	7588.6	7238.9
52.5°	7602.5	7792.4	8105.0	8528.8	8934.0	9165.6	8371.3	8241.6	8239.3	8403.7	7922.0
55°	7817.8	7933.6	8204.6	8788.1	9559.3	9939.0	9501.4	9292.9	9105.4	9221.2	8630.7
57.5°	7797.0	7841.0	8262.5	8982.6	10054.8	10744.9	10430.0	10230.8	9990.0	9922.8	9445.8
60°	7431.1	7535.3	8007.7	8850.6	10360.5	11372.5	11296.0	11092.3	10677.7	10520.3	10071.0
62.5°	6706.3	6845.2	7215.8	8387.5	9915.9	11404.9	11893.5	11817.1	11353.9	11071.4	10886.2
65°	5435.0	5499.8	5925.9	7211.1	8910.9	10907.0	12599.8	12504.8	12078.7	11657.3	11305.3
67.5°	3519.9	3582.4	3992.3	5147.8	6998.1	9621.8	12572.0	12833.7	12372.8	11865.7	11043.6
70°	1662.7	1646.5	2028.6	2859.9	4483.2	7347.7	11722.1	12238.5	11847.2	10756.5	9172.5
72.5°	507.1	551.1	842.9	1266.7	2301.8	4582.8	9188.7	9672.7	9550.0	8593.6	6122.7
75°	224.6	243.1	331.1	518.7	933.2	1880.4	5675.8	6106.5	6053.3	5069.1	2795.1
77.5°	143.6	157.5	208.4	296.4	423.8	597.5	2614.4	3033.6	2941.0	1780.8	731.8
80°	101.9	108.8	148.2	203.8	266.3	245.5	900.8	1069.9	1025.9	484.0	196.8
82.5°	55.6	60.2	108.8	150.5	178.3	125.0	252.4	314.9	328.8	215.4	94.9
85°	20.8	25.5	67.2	106.5	92.6	57.9	74.1	90.3	118.1	118.1	44.0
87.5°	0.0	2.3	27.8	46.3	23.2	16.2	20.8	25.5	32.4	55.6	16.2
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°	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7	1838.7
2.5°	1859.5	1843.3	1850.3	1861.8	1836.4	1850.3	1822.5	1843.3	1850.3	1822.5	1836.4
5°	1882.7	1898.9	1889.6	1871.1	1854.9	1859.5	1852.6	1836.4	1850.3	1854.9	1845.6
7.5°	1949.8	1931.3	1935.9	1915.1	1882.7	1880.4	1836.4	1824.8	1829.4	1834.0	1817.8
10°	2012.4	2023.9	2000.8	1984.6	1931.3	1896.6	1836.4	1771.5	1764.6	1736.8	1759.9
12.5°	2123.5	2095.7	2086.5	2033.2	1979.9	1864.1	1734.5	1634.9	1551.5	1521.4	1491.3
15°	2216.1	2211.5	2195.3	2114.2	1991.5	1780.8	1535.3	1303.7	1144.0	1044.4	1030.5
17.5°	2343.5	2322.7	2292.6	2165.2	1905.8	1563.1	1144.0	852.2	692.4	629.9	606.7
20°	2440.8	2424.5	2382.9	2153.6	1750.7	1164.8	708.6	541.9	502.5	490.9	493.2
22.5°	2582.0	2531.1	2452.3	2095.7	1468.2	775.8	509.5	484.0	477.0	467.8	470.1
25°	2704.7	2658.4	2494.0	1996.1	1046.7	514.1	472.4	458.5	446.9	435.4	433.0
27.5°	2813.6	2755.7	2538.0	1792.4	655.3	442.3	437.7	421.5	398.3	379.8	372.8
30°	2920.1	2853.0	2549.6	1410.3	442.3	400.6	389.0	363.6	333.5	308.0	303.4
32.5°	3098.4	3017.4	2533.4	1007.3	382.1	356.6	331.1	301.0	257.0	236.2	231.6
35°	3376.3	3253.6	2512.5	592.8	342.7	314.9	275.6	236.2	203.8	182.9	178.3
37.5°	3695.9	3482.8	2452.3	396.0	314.9	277.9	226.9	187.6	159.8	143.6	138.9
40°	4170.6	3818.6	2220.8	324.2	280.2	236.2	182.9	148.2	127.4	115.8	111.2
42.5°	4693.9	4203.0	1864.1	291.8	247.8	201.5	145.9	120.4	104.2	92.6	92.6
45°	5321.5	4603.6	1438.1	266.3	220.0	166.7	120.4	97.3	83.4	74.1	69.5
47.5°	6020.8	4967.2	970.3	240.8	185.3	136.6	99.6	74.1	60.2	53.3	53.3
50°	6646.1	5289.1	618.3	210.7	162.1	113.5	81.0	60.2	48.6	39.4	37.1
52.5°	7213.4	5534.5	426.1	185.3	138.9	92.6	67.2	48.6	37.1	30.1	30.1
55°	7794.7	5659.6	314.9	159.8	120.4	78.7	55.6	44.0	32.4	25.5	23.2
57.5°	8271.7	5712.9	240.8	138.9	101.9	62.5	48.6	37.1	27.8	20.8	18.5
60°	8679.3	5687.4	187.6	115.8	81.0	53.3	41.7	30.1	23.2	16.2	13.9
62.5°	8917.8	5534.5	148.2	99.6	64.8	46.3	34.7	25.5	16.2	11.6	9.3
65°	8922.4	5210.3	115.8	74.1	48.6	39.4	30.1	20.8	11.6	4.6	2.3
67.5°	8283.3	4508.7	92.6	57.9	39.4	30.1	23.2	16.2	4.6	0.0	0.0
70°	6479.4	3411.0	76.4	46.3	32.4	25.5	16.2	9.3	2.3	0.0	0.0
72.5°	4128.9	2042.5	62.5	37.1	27.8	18.5	11.6	6.9	0.0	0.0	0.0
75°	1727.5	629.9	48.6	32.4	20.8	13.9	9.3	2.3	0.0	0.0	0.0
77.5°	444.6	199.2	39.4	27.8	20.8	11.6	6.9	2.3	0.0	0.0	0.0
80°	132.0	74.1	32.4	23.2	16.2	9.3	4.6	2.3	0.0	0.0	0.0
82.5°	60.2	44.0	27.8	20.8	13.9	9.3	4.6	0.0	0.0	0.0	0.0
85°	23.2	13.9	13.9	11.6	11.6	6.9	2.3	0.0	0.0	0.0	0.0
87.5°	9.3	4.6	4.6	4.6	2.3	2.3	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)