

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: P482579

Luminaire Tested: **IFLD-S-SA6B-827-U-T3-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P482579  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-827-U-T3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3  
distribution lens with House Side Shield  
Light Source: (96) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

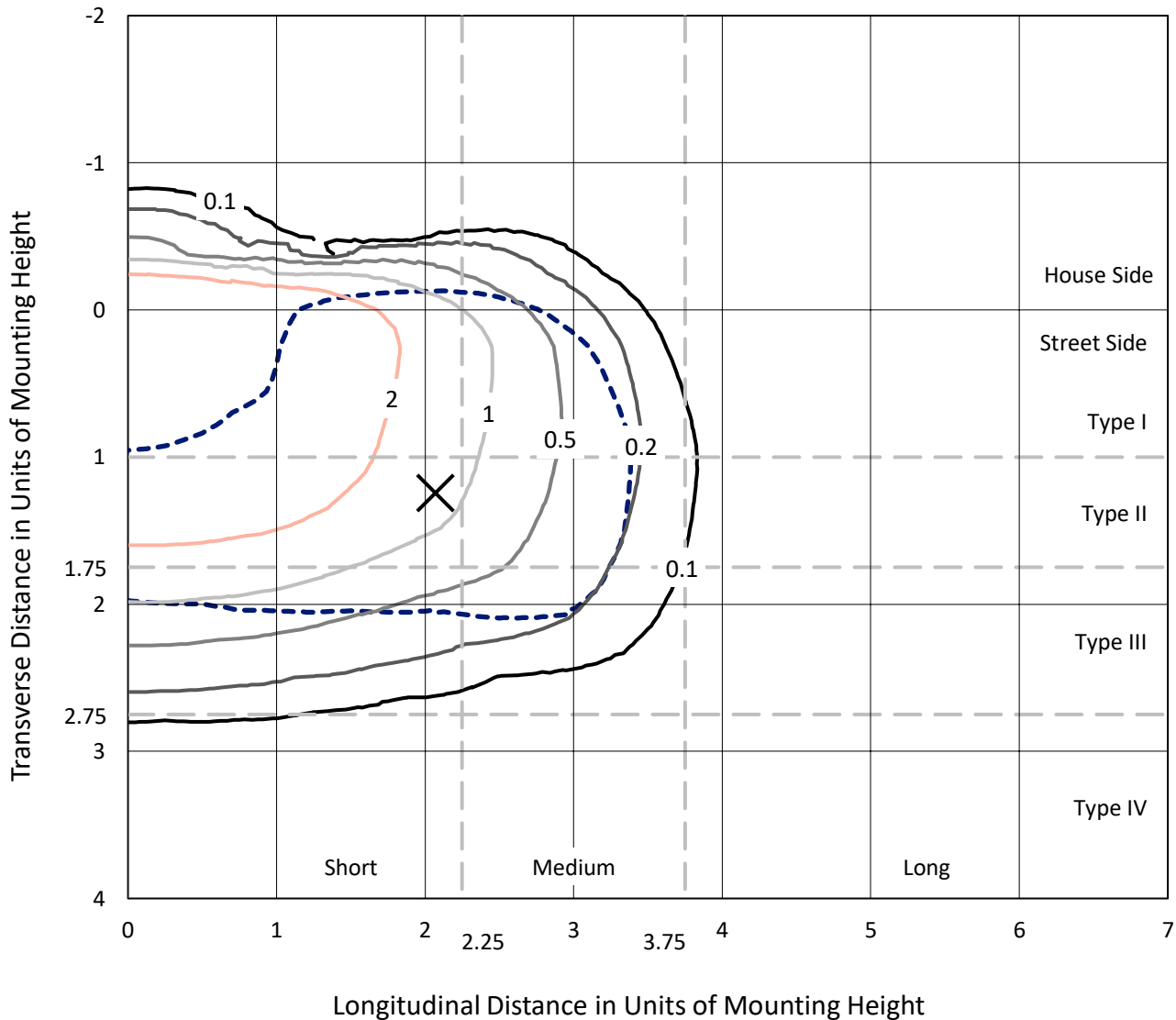
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18207.3 lumens  
Efficiency: N/A  
Efficacy: 74.3 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): 244.9  
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

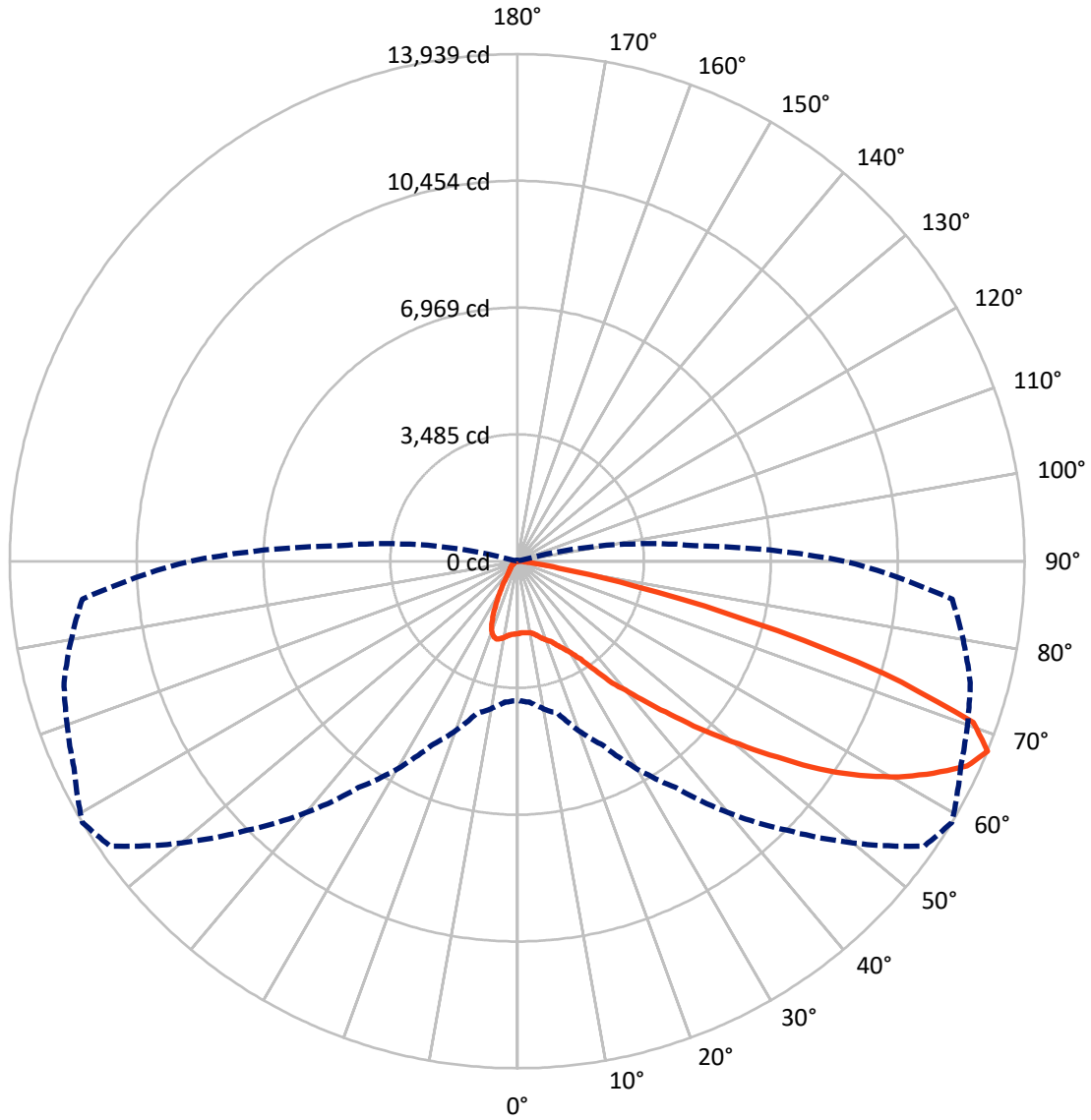
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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	2138.8	0.0	2138.8
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	16068.6	0.0	16068.6
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	18207.3	0.0	18207.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.7	1.0
10°-20°	547.9	3.0
20°-30°	957.7	5.3
30°-40°	1686.1	9.3
40°-50°	2980.5	16.4
50°-60°	4719.2	25.9
60°-70°	5234.9	28.8
70°-80°	1816.4	10.0
80°-90°	74.8	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°	18207.3	100.0
0°-180°	18207.3	100.0

**Coefficient of Utilization**

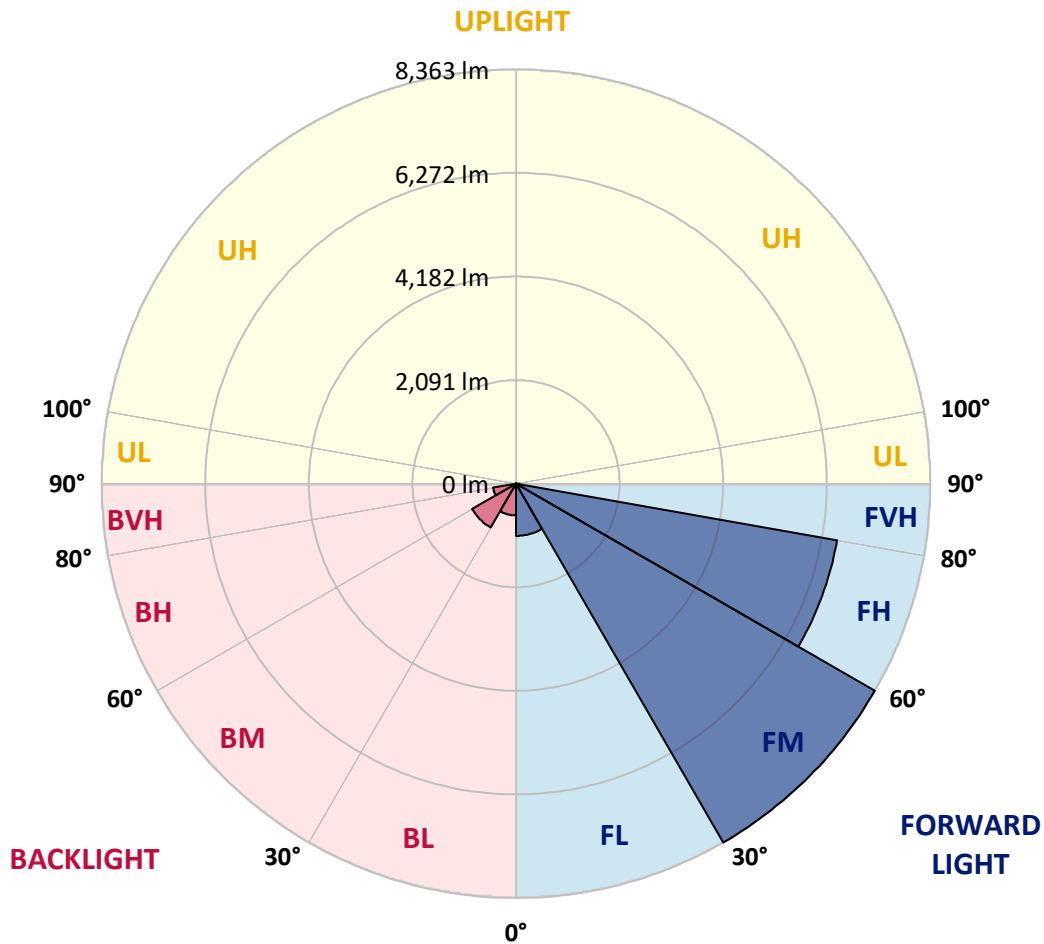


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.3	5.8			
FM (30°-60°)	8363.3	45.9			
FH (60°-80°)	6581.0	36.1			G3/7500
FVH (80°-90°)	70.0	0.4			G1/100
BL (0°-30°)	641.0	3.5	B2/1000		
BM (30°-60°)	1022.6	5.6	B2/2500		
BH (60°-80°)	470.4	2.6	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0
2.5°	1939.2	1911.5	1936.7	1939.2	1941.7	1964.3	1989.5	1971.9	1969.4	1989.5	2007.1
5°	1861.2	1848.6	1878.8	1893.9	1919.0	1939.2	1979.4	1981.9	1984.4	2007.1	2037.3
7.5°	1828.5	1798.3	1833.5	1851.1	1868.7	1916.5	1964.3	1989.5	2024.7	2052.4	2082.5
10°	1763.1	1785.7	1795.8	1826.0	1876.3	1931.6	1989.5	2002.0	2080.0	2102.7	2175.6
12.5°	1785.7	1800.8	1821.0	1828.5	1883.8	1966.8	2044.8	2049.8	2130.3	2228.4	2266.1
15°	1843.6	1833.5	1841.1	1851.1	1916.5	1984.4	2110.2	2132.8	2208.3	2319.0	2412.0
17.5°	1966.8	1949.2	1936.7	1934.1	1949.2	2012.1	2160.5	2228.4	2298.8	2449.7	2497.5
20°	2276.2	2261.1	2210.8	2080.0	2034.7	2059.9	2220.9	2316.4	2414.5	2583.0	2661.0
22.5°	2746.5	2761.6	2643.4	2459.8	2271.2	2173.1	2316.4	2399.4	2555.4	2769.2	2839.6
25°	3302.4	3272.2	3128.8	2915.0	2618.3	2386.9	2469.9	2562.9	2754.1	2930.1	2957.8
27.5°	3737.5	3702.3	3591.6	3332.6	3076.0	2701.3	2671.1	2728.9	2955.3	3113.7	3083.6
30°	4167.6	4180.2	4104.7	3797.9	3480.9	3086.1	2894.9	2920.1	3093.6	3297.3	3229.4
32.5°	4715.9	4685.7	4642.9	4373.8	3999.1	3576.5	3249.6	3209.3	3284.8	3553.9	3473.4
35°	5226.5	5208.8	5151.0	4879.4	4552.4	4092.1	3772.7	3682.2	3664.6	3963.9	3823.0
37.5°	5671.6	5641.5	5553.4	5379.9	5063.0	4675.6	4326.0	4245.6	4243.0	4449.3	4177.6
40°	6046.4	6069.0	6059.0	5867.8	5694.3	5384.9	4849.2	4720.9	4710.9	4821.5	4663.1
42.5°	6531.8	6584.6	6557.0	6519.2	6310.5	6189.8	5583.6	5387.4	5299.4	5525.8	5382.4
45°	7266.2	7286.4	7304.0	7210.9	7002.1	7027.3	6343.2	6109.3	6086.6	6423.7	6101.7
47.5°	7952.9	7900.0	8023.3	8028.3	8018.3	7902.6	7163.1	6989.6	7019.7	7276.3	6944.3
50°	8123.9	8259.7	8599.3	8662.1	8825.6	8931.3	8073.6	7900.0	7950.3	8242.1	7862.3
52.5°	8257.2	8463.4	8803.0	9263.2	9703.4	9954.9	9092.2	8951.4	8948.9	9127.4	8604.3
55°	8491.1	8616.9	8911.1	9544.9	10382.5	10795.0	10319.6	10093.2	9889.5	10015.3	9373.9
57.5°	8468.5	8516.3	8974.0	9756.2	10920.7	11670.2	11328.2	11111.9	10850.3	10777.4	10259.2
60°	8071.1	8184.3	8697.3	9612.9	11252.7	12351.8	12268.8	12047.5	11597.3	11426.3	10938.3
62.5°	7283.8	7434.7	7837.2	9109.8	10769.8	12387.0	12917.7	12834.7	12331.7	12024.9	11823.7
65°	5903.0	5973.5	6436.2	7832.1	9678.2	11846.3	13684.9	13581.7	13119.0	12661.2	12278.9
67.5°	3823.0	3890.9	4336.1	5591.1	7600.7	10450.4	13654.7	13938.9	13438.4	12887.6	11994.7
70°	1805.9	1788.3	2203.3	3106.2	4869.3	7980.5	12731.6	13292.5	12867.4	11682.8	9962.5
72.5°	550.8	598.6	915.5	1375.8	2500.0	4977.5	9980.1	10505.7	10372.4	9333.7	6650.0
75°	244.0	264.1	359.7	563.4	1013.6	2042.3	6164.6	6632.4	6574.6	5505.6	3035.8
77.5°	155.9	171.0	226.4	321.9	460.3	648.9	2839.6	3294.8	3194.2	1934.1	794.8
80°	110.7	118.2	161.0	221.3	289.2	266.6	978.4	1162.0	1114.2	525.7	213.8
82.5°	60.4	65.4	118.2	163.5	193.7	135.8	274.1	342.1	357.1	233.9	103.1
85°	22.6	27.7	72.9	115.7	100.6	62.9	80.5	98.1	128.3	128.3	47.8
87.5°	0.0	2.5	30.2	50.3	25.2	17.6	22.6	27.7	35.2	60.4	17.6
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°	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0	1997.0
2.5°	2019.7	2002.0	2009.6	2022.2	1994.5	2009.6	1979.4	2002.0	2009.6	1979.4	1994.5
5°	2044.8	2062.4	2052.4	2032.2	2014.6	2019.7	2012.1	1994.5	2009.6	2014.6	2004.6
7.5°	2117.7	2097.6	2102.7	2080.0	2044.8	2042.3	1994.5	1981.9	1987.0	1992.0	1974.4
10°	2185.7	2198.2	2173.1	2155.5	2097.6	2059.9	1994.5	1924.1	1916.5	1886.4	1911.5
12.5°	2306.4	2276.2	2266.1	2208.3	2150.4	2024.7	1883.8	1775.7	1685.1	1652.4	1619.7
15°	2407.0	2402.0	2384.3	2296.3	2163.0	1934.1	1667.5	1416.0	1242.5	1134.3	1119.2
17.5°	2545.3	2522.7	2490.0	2351.7	2070.0	1697.7	1242.5	925.6	752.0	684.1	659.0
20°	2651.0	2633.3	2588.1	2339.1	1901.4	1265.1	769.6	588.5	545.8	533.2	535.7
22.5°	2804.4	2749.0	2663.5	2276.2	1594.6	842.6	553.3	525.7	518.1	508.1	510.6
25°	2937.7	2887.4	2708.8	2168.0	1136.8	558.4	513.1	498.0	485.4	472.8	470.3
27.5°	3055.9	2993.0	2756.6	1946.7	711.8	480.4	475.4	457.8	432.6	412.5	404.9
30°	3171.6	3098.6	2769.2	1531.7	480.4	435.1	422.5	394.9	362.2	334.5	329.5
32.5°	3365.3	3277.2	2751.6	1094.1	415.0	387.3	359.7	327.0	279.2	256.5	251.5
35°	3667.1	3533.8	2728.9	643.9	372.2	342.1	299.3	256.5	221.3	198.7	193.7
37.5°	4014.2	3782.8	2663.5	430.1	342.1	301.8	246.5	203.7	173.5	155.9	150.9
40°	4529.8	4147.5	2412.0	352.1	304.3	256.5	198.7	161.0	138.3	125.8	120.7
42.5°	5098.2	4565.0	2024.7	316.9	269.1	218.8	158.5	130.8	113.2	100.6	100.6
45°	5779.8	5000.1	1561.9	289.2	238.9	181.1	130.8	105.6	90.5	80.5	75.5
47.5°	6539.4	5395.0	1053.8	261.6	201.2	148.4	108.2	80.5	65.4	57.8	57.8
50°	7218.4	5744.6	671.5	228.9	176.1	123.2	88.0	65.4	52.8	42.8	40.2
52.5°	7834.7	6011.2	462.8	201.2	150.9	100.6	72.9	52.8	40.2	32.7	32.7
55°	8466.0	6147.0	342.1	173.5	130.8	85.5	60.4	47.8	35.2	27.7	25.2
57.5°	8984.1	6204.8	261.6	150.9	110.7	67.9	52.8	40.2	30.2	22.6	20.1
60°	9426.7	6177.2	203.7	125.8	88.0	57.8	45.3	32.7	25.2	17.6	15.1
62.5°	9685.8	6011.2	161.0	108.2	70.4	50.3	37.7	27.7	17.6	12.6	10.1
65°	9690.8	5659.1	125.8	80.5	52.8	42.8	32.7	22.6	12.6	5.0	2.5
67.5°	8996.6	4897.0	100.6	62.9	42.8	32.7	25.2	17.6	5.0	0.0	0.0
70°	7037.4	3704.8	83.0	50.3	35.2	27.7	17.6	10.1	2.5	0.0	0.0
72.5°	4484.5	2218.4	67.9	40.2	30.2	20.1	12.6	7.5	0.0	0.0	0.0
75°	1876.3	684.1	52.8	35.2	22.6	15.1	10.1	2.5	0.0	0.0	0.0
77.5°	482.9	216.3	42.8	30.2	22.6	12.6	7.5	2.5	0.0	0.0	0.0
80°	143.4	80.5	35.2	25.2	17.6	10.1	5.0	2.5	0.0	0.0	0.0
82.5°	65.4	47.8	30.2	22.6	15.1	10.1	5.0	0.0	0.0	0.0	0.0
85°	25.2	15.1	15.1	12.6	12.6	7.5	2.5	0.0	0.0	0.0	0.0
87.5°	10.1	5.0	5.0	5.0	2.5	2.5	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)