

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: P484238

Luminaire Tested: **IFLD-S-SA2D-722-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484238
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-722-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

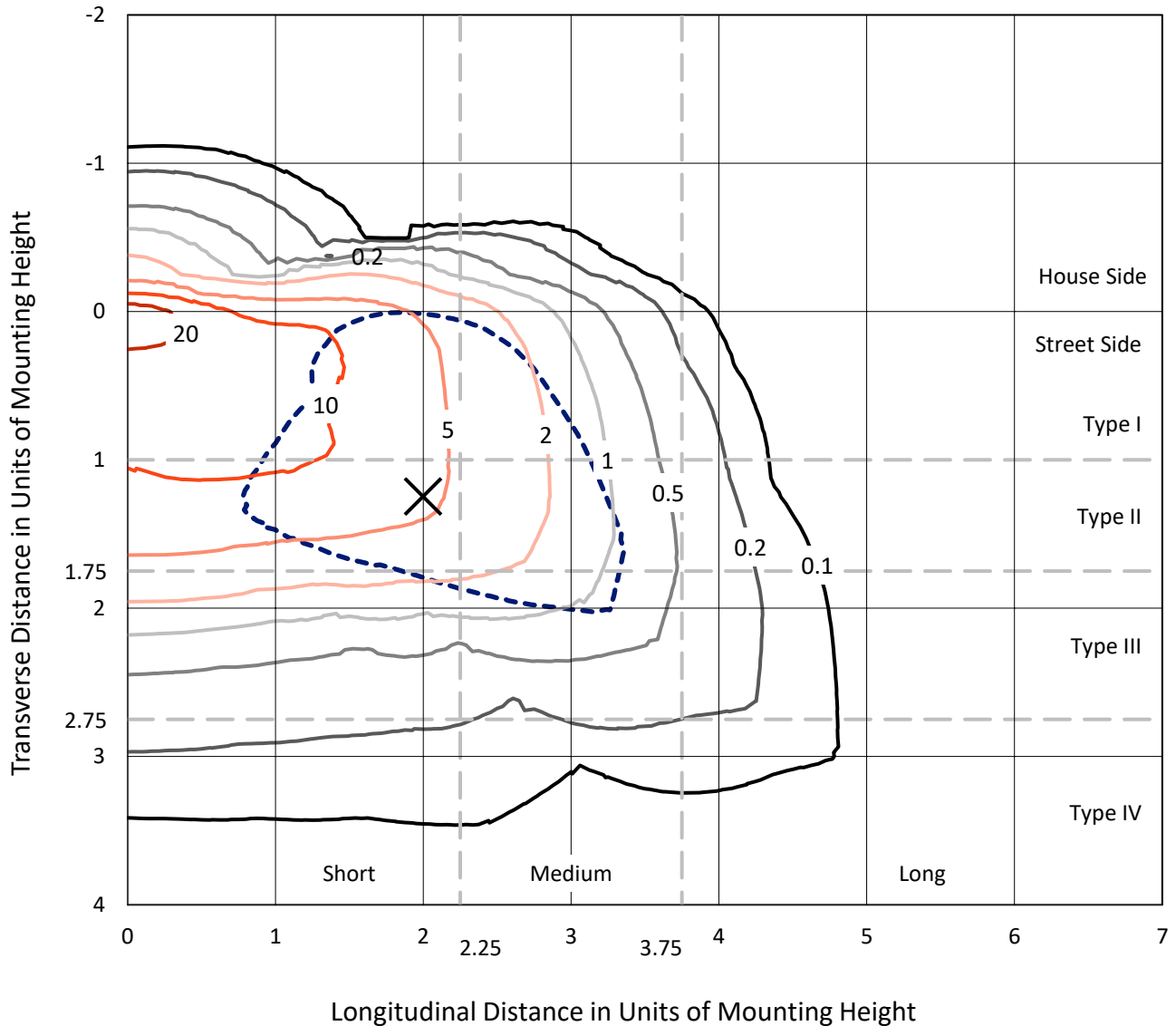
Lumens per Lamp: N/A
Luminaire Lumens: 9634.2 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 123.9
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

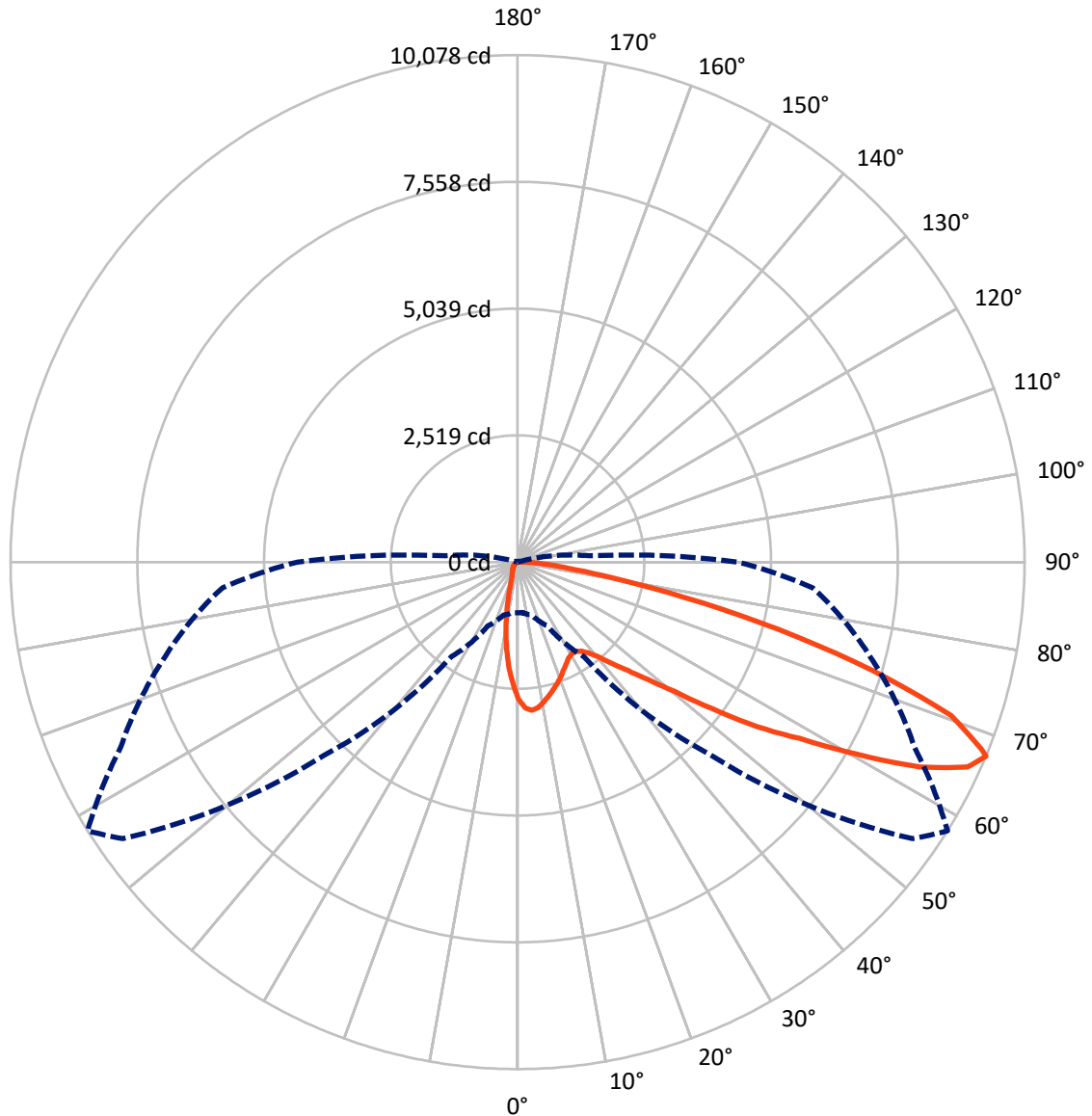
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	796.3	0.0	796.3
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	8837.8	0.0	8837.8
	% Fixture	91.7	0.0	91.7
Total	Lumens	9634.2	0.0	9634.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.6	2.2
10°-20°	449.2	4.7
20°-30°	596.0	6.2
30°-40°	825.9	8.6
40°-50°	1347.6	14.0
50°-60°	2368.6	24.6
60°-70°	2623.5	27.2
70°-80°	1087.2	11.3
80°-90°	119.7	1.2
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°	9634.2	100.0
0°-180°	9634.2	100.0

Coefficient of Utilization



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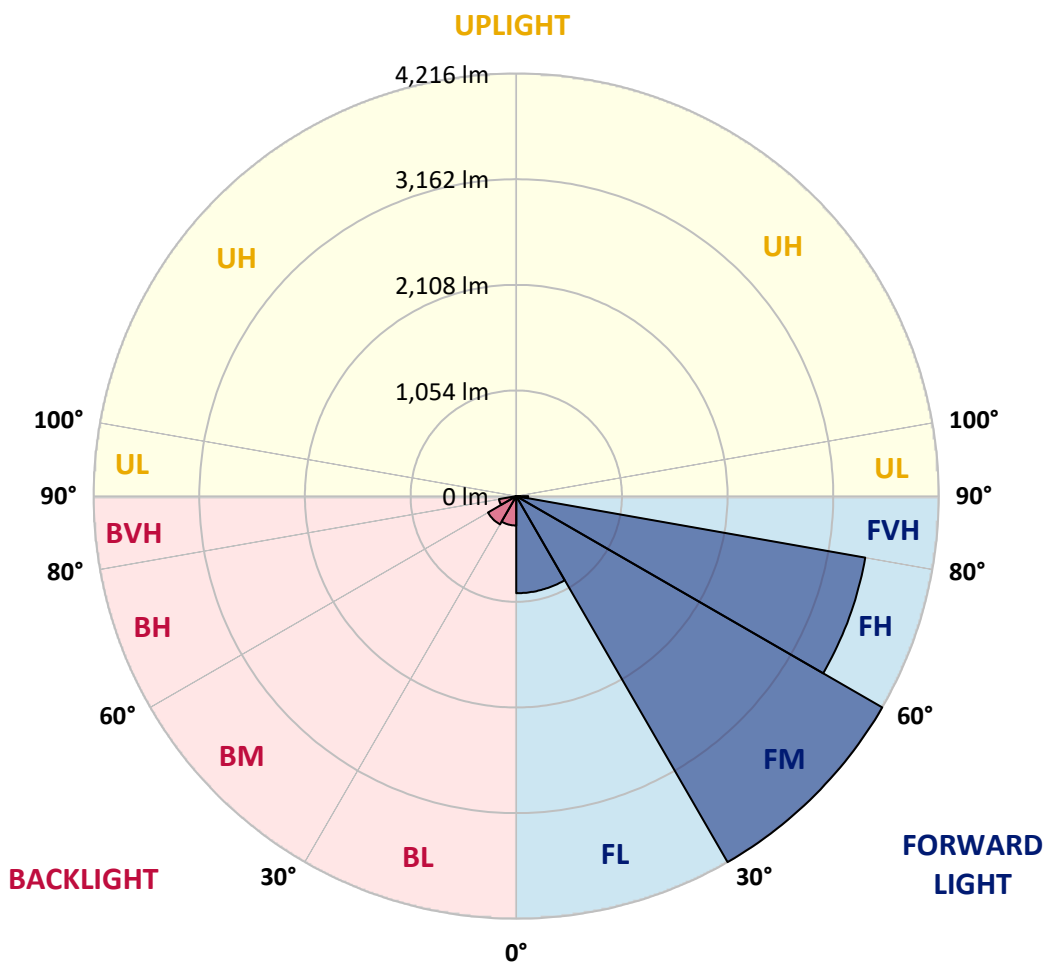
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.5	10.1			
FM (30°-60°)	4216.1	43.8			
FH (60°-80°)	3535.5	36.7			G2/5000
FVH (80°-90°)	117.7	1.2			G2/225
BL (0°-30°)	293.3	3.0	B1/500		
BM (30°-60°)	326.0	3.4	B1/1000		
BH (60°-80°)	175.1	1.8	B1/500		G1/500
BVH (80°-90°)	2.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5
2.5°	2970.0	2980.2	2989.1	2972.5	2986.6	2966.1	2913.7	2902.2	2893.2	2815.2	2770.4
5°	2968.7	2957.2	2966.1	2973.8	2954.6	2970.0	2957.2	2958.4	2923.9	2853.6	2728.2
7.5°	2770.4	2765.3	2770.4	2807.5	2849.7	2883.0	2902.2	2921.4	2898.3	2793.4	2671.9
10°	2503.1	2528.7	2542.8	2609.3	2674.5	2735.9	2796.0	2831.8	2825.4	2783.2	2610.5
12.5°	2316.4	2308.7	2359.8	2403.3	2468.6	2592.6	2697.5	2730.8	2769.1	2710.3	2530.0
15°	2143.7	2123.2	2153.9	2229.4	2340.7	2439.2	2586.2	2636.1	2684.7	2700.1	2486.5
17.5°	1978.7	1988.9	2020.9	2088.7	2193.6	2331.7	2469.8	2541.5	2657.9	2637.4	2421.2
20°	1899.4	1921.1	1932.6	1967.2	2040.1	2178.2	2384.2	2441.7	2565.8	2636.1	2357.3
22.5°	1903.2	1903.2	1876.4	1896.8	1963.3	2070.8	2267.8	2331.7	2528.7	2569.6	2299.7
25°	1944.2	1918.6	1919.9	1895.6	1923.7	1982.5	2162.9	2240.9	2453.2	2576.0	2269.0
27.5°	1974.9	1969.7	1962.1	1955.7	1919.9	1928.8	2093.8	2157.8	2423.8	2568.3	2221.7
30°	2086.1	2063.1	2055.4	2041.4	1994.0	1950.6	2038.8	2119.4	2400.8	2586.2	2194.9
32.5°	2179.5	2183.3	2189.7	2148.8	2107.9	2000.4	2054.2	2118.1	2384.2	2627.2	2221.7
35°	2297.2	2313.8	2316.4	2303.6	2260.1	2153.9	2118.1	2173.1	2412.3	2700.1	2224.3
37.5°	2476.2	2458.3	2506.9	2512.1	2481.4	2340.7	2266.5	2288.2	2495.4	2816.5	2321.5
40°	2592.6	2614.4	2705.2	2761.5	2709.0	2581.1	2481.4	2477.5	2615.7	2999.4	2441.7
42.5°	2721.8	2770.4	2870.2	2991.7	2985.3	2866.4	2765.3	2748.7	2829.3	3264.1	2632.3
45°	2898.3	2941.8	3081.2	3264.1	3363.9	3262.9	3110.7	3077.4	3088.9	3624.8	2957.2
47.5°	3191.2	3179.7	3380.5	3560.9	3724.6	3646.6	3581.3	3484.1	3475.2	4049.5	3406.1
50°	3522.5	3519.9	3699.0	3903.7	4093.0	4245.2	4136.5	4030.3	4032.8	4626.3	3934.4
52.5°	3837.2	3887.0	4080.2	4283.5	4608.4	4772.1	4877.0	4834.8	4631.4	5141.8	4499.7
55°	4003.4	4046.9	4238.8	4589.2	5102.1	5522.9	5806.9	5771.1	5378.4	5722.5	5057.4
57.5°	3846.1	3875.5	4135.2	4594.4	5447.5	6386.3	6658.7	6614.0	6151.0	6166.3	5731.4
60°	3187.4	3233.4	3619.7	4158.2	5313.2	7051.4	7831.6	7763.8	6854.4	6727.8	6165.0
62.5°	2207.6	2238.3	2555.5	3225.8	4676.2	7282.9	8939.3	8976.4	7596.3	7165.2	6294.2
65°	1430.0	1427.4	1609.0	2063.1	3314.0	6582.0	9594.2	9824.4	8312.6	7231.8	6254.6
67°	1010.5	1006.6	1092.3	1399.3	2294.6	5423.2	9582.7	10077.6	8701.4	7250.9	5887.5
67.5°	932.4	928.6	1010.5	1286.7	2070.8	5043.3	9439.4	9947.2	8838.2	7224.1	5726.3
70°	723.9	713.7	744.4	886.4	1206.1	3261.6	8078.5	9137.5	8554.3	6553.9	4572.6
72.5°	523.1	534.6	583.2	727.8	946.5	1754.9	6157.4	7389.1	7144.8	4939.7	2906.0
75°	364.5	374.8	452.8	593.5	868.5	1064.2	4163.3	5359.2	4976.8	2726.9	1238.1
77.5°	190.6	203.4	289.1	474.5	789.2	823.7	2487.8	3398.4	2637.4	970.8	341.5
80°	88.3	94.6	144.5	336.4	660.0	723.9	1450.4	1890.4	1055.2	217.4	117.7
82.5°	38.4	42.2	66.5	193.1	468.1	633.1	897.9	991.3	382.4	70.3	72.9
85°	7.7	9.0	25.6	102.3	226.4	383.7	630.6	588.4	191.9	34.5	57.6
87.5°	0.0	0.0	6.4	29.4	61.4	113.8	267.3	267.3	58.8	17.9	21.7
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°	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5	2729.5
2.5°	2730.8	2684.7	2583.7	2490.3	2423.8	2348.3	2248.6	2203.8	2187.2	2164.2	2129.6
5°	2659.1	2602.9	2430.2	2256.2	2065.7	1921.1	1767.6	1678.1	1610.3	1568.1	1554.0
7.5°	2558.1	2443.0	2210.2	1931.4	1684.5	1469.6	1236.8	1079.5	978.5	937.5	899.2
10°	2477.5	2327.9	1973.6	1627.0	1298.2	983.6	721.4	583.2	478.4	438.7	433.6
12.5°	2372.6	2193.6	1752.3	1316.1	903.0	585.8	399.1	346.6	317.2	312.1	308.3
15°	2285.7	2072.1	1542.5	1019.4	584.5	365.8	310.8	298.0	290.3	287.8	289.1
17.5°	2226.8	1941.6	1327.7	741.8	385.0	299.3	286.5	278.8	275.0	273.7	269.9
20°	2110.4	1831.6	1115.3	519.3	300.6	276.3	266.0	259.6	255.8	254.5	253.3
22.5°	2043.9	1692.2	903.0	362.0	267.3	250.7	243.0	237.9	231.5	227.7	226.4
25°	1977.4	1589.9	713.7	281.4	243.0	231.5	220.0	213.6	203.4	198.3	197.0
27.5°	1899.4	1488.8	550.0	244.3	218.7	207.2	195.7	185.5	172.7	167.6	165.0
30°	1854.6	1390.3	414.4	218.7	200.8	185.5	171.4	158.6	144.5	135.6	133.0
32.5°	1831.6	1300.8	310.8	199.5	181.6	165.0	147.1	131.7	119.0	111.3	110.0
35°	1803.5	1213.8	244.3	181.6	163.7	145.8	127.9	112.6	99.8	93.4	90.8
37.5°	1832.9	1162.7	203.4	167.6	149.6	129.2	110.0	94.6	84.4	78.0	76.7
40°	1913.5	1120.4	176.5	154.8	135.6	113.8	95.9	80.6	71.6	66.5	64.0
42.5°	2037.5	1120.4	159.9	142.0	122.8	99.8	81.9	70.3	61.4	56.3	55.0
45°	2262.6	1155.0	145.8	129.2	107.4	85.7	70.3	58.8	49.9	44.8	43.5
47.5°	2578.6	1234.3	134.3	117.7	95.9	75.5	61.4	49.9	40.9	35.8	34.5
50°	3003.2	1414.6	122.8	103.6	85.7	65.2	51.2	39.7	32.0	26.9	25.6
52.5°	3532.7	1670.4	111.3	95.9	72.9	55.0	40.9	32.0	24.3	20.5	19.2
55°	4093.0	1983.8	97.2	85.7	62.7	46.0	33.3	24.3	17.9	15.3	14.1
57.5°	4657.0	2225.5	85.7	74.2	51.2	37.1	26.9	19.2	12.8	10.2	9.0
60°	4956.3	2248.6	74.2	61.4	40.9	29.4	20.5	14.1	9.0	6.4	5.1
62.5°	5002.4	2043.9	64.0	49.9	33.3	23.0	14.1	10.2	5.1	2.6	2.6
65°	4765.7	1703.7	55.0	39.7	25.6	16.6	10.2	6.4	2.6	1.3	0.0
67°	4382.0	1427.4	47.3	33.3	20.5	12.8	7.7	3.8	1.3	0.0	0.0
67.5°	4233.7	1350.7	44.8	30.7	19.2	11.5	6.4	3.8	1.3	0.0	0.0
70°	3285.9	964.4	33.3	21.7	14.1	9.0	5.1	2.6	0.0	0.0	0.0
72.5°	2013.2	564.1	25.6	15.3	10.2	6.4	3.8	1.3	0.0	0.0	0.0
75°	844.2	194.4	21.7	11.5	7.7	3.8	2.6	1.3	0.0	0.0	0.0
77.5°	220.0	72.9	15.3	7.7	5.1	3.8	2.6	1.3	0.0	0.0	0.0
80°	89.5	33.3	10.2	5.1	5.1	3.8	2.6	1.3	0.0	0.0	0.0
82.5°	58.8	15.3	6.4	5.1	3.8	2.6	1.3	0.0	0.0	0.0	0.0
85°	44.8	9.0	3.8	3.8	2.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	19.2	5.1	3.8	2.6	2.6	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)