

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: P484549

Luminaire Tested: **IFLD-S-SA2C-830-U-SL3-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484549  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-830-U-SL3-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

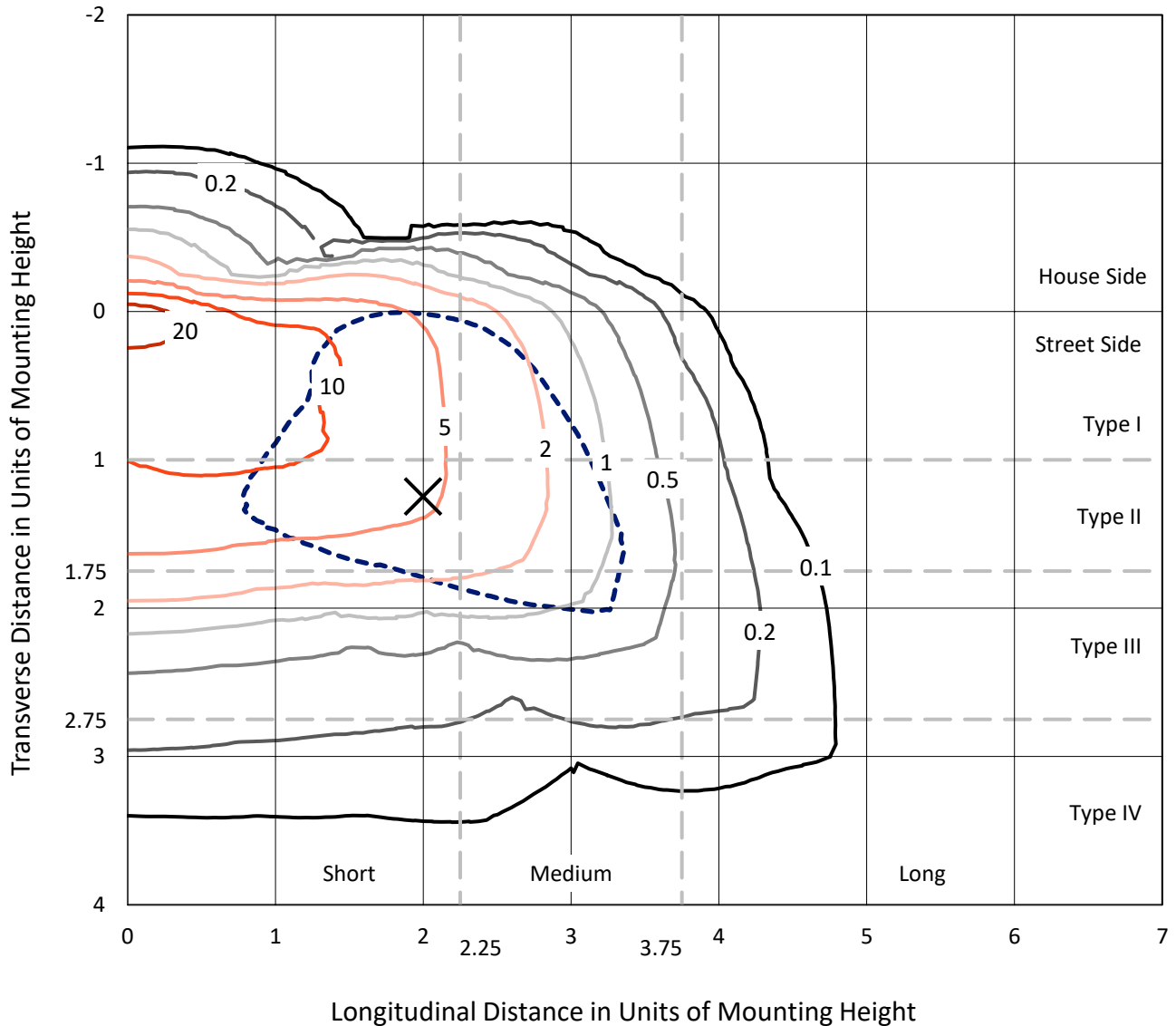
Lumens per Lamp: N/A  
Luminaire Lumens: 9445.1 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2  
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

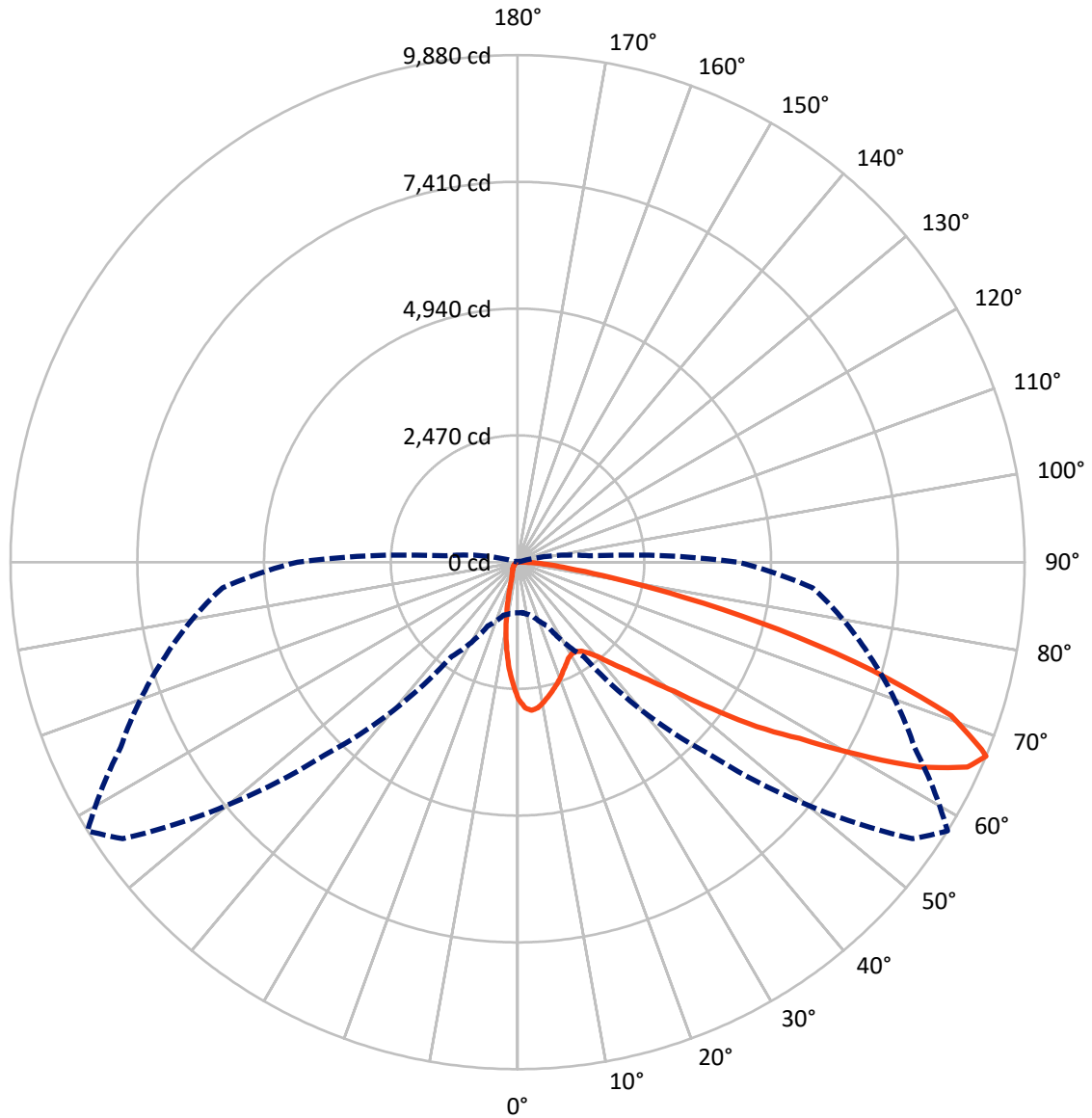
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.8 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
<b>House Side</b>	Lumens	780.7	0.0	780.7
	% Fixture	8.3	0.0	8.3
<b>Street Side</b>	Lumens	8664.4	0.0	8664.4
	% Fixture	91.7	0.0	91.7
<b>Total</b>	Lumens	9445.1	0.0	9445.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.3	2.2
10°-20°	440.4	4.7
20°-30°	584.3	6.2
30°-40°	809.7	8.6
40°-50°	1321.1	14.0
50°-60°	2322.1	24.6
60°-70°	2572.0	27.2
70°-80°	1065.8	11.3
80°-90°	117.3	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°	9445.1	100.0
0°-180°	9445.1	100.0

**Coefficient of Utilization**



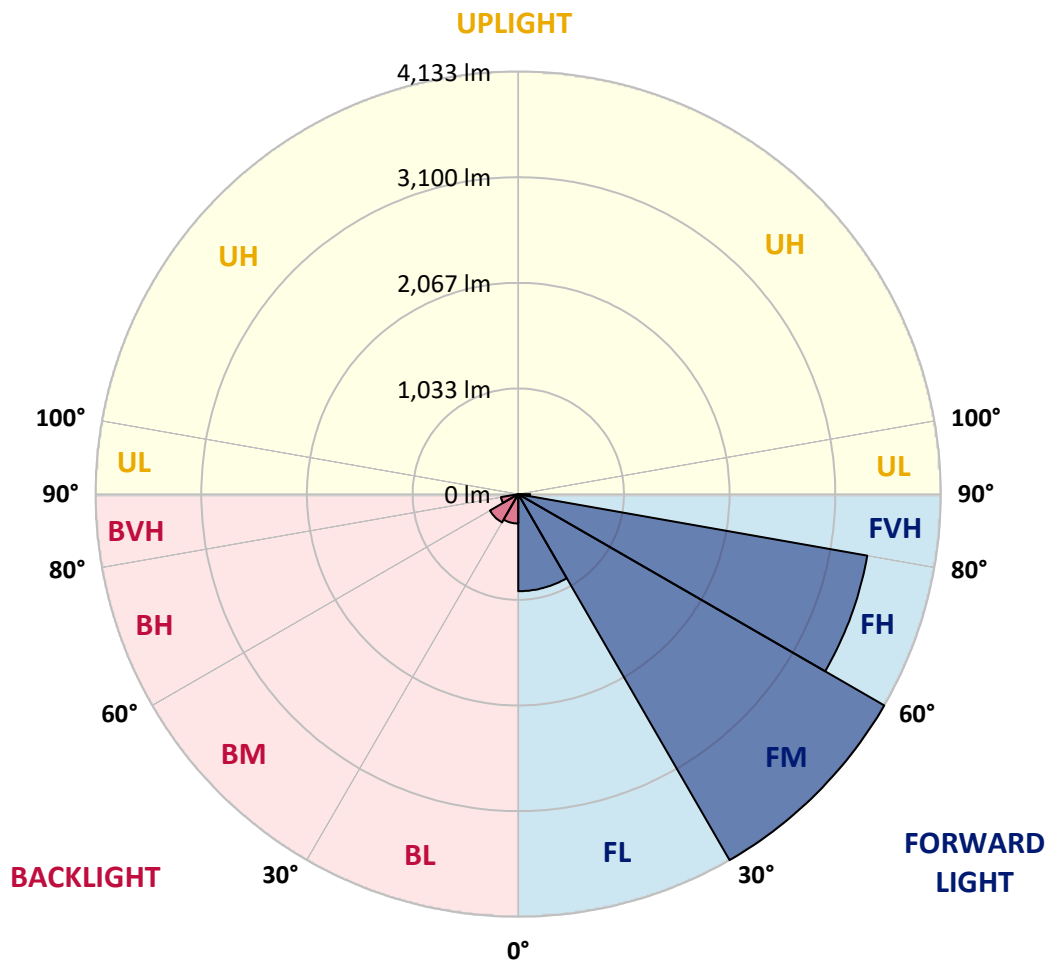
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.5	10.1			
FM (30°-60°)	4133.4	43.8			
FH (60°-80°)	3466.1	36.7			G2/5000
FVH (80°-90°)	115.4	1.2			G2/225
BL (0°-30°)	287.5	3.0	B1/500		
BM (30°-60°)	319.6	3.4	B1/1000		
BH (60°-80°)	171.6	1.8	B1/500		G1/500
BVH (80°-90°)	1.9	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°	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9
2.5°	2911.7	2921.7	2930.5	2914.2	2928.0	2907.9	2856.5	2845.2	2836.4	2759.9	2716.0
5°	2910.4	2899.1	2907.9	2915.4	2896.6	2911.7	2899.1	2900.4	2866.5	2797.6	2674.7
7.5°	2716.0	2711.0	2716.0	2752.4	2793.8	2826.4	2845.2	2864.0	2841.4	2738.6	2619.5
10°	2454.0	2479.1	2492.8	2558.1	2622.0	2682.2	2741.1	2776.2	2770.0	2728.6	2559.3
12.5°	2270.9	2263.4	2313.5	2356.2	2420.1	2541.8	2644.6	2677.2	2714.8	2657.1	2480.3
15°	2101.6	2081.6	2111.6	2185.6	2294.7	2391.3	2535.5	2584.4	2632.0	2647.1	2437.7
17.5°	1939.9	1949.9	1981.2	2047.7	2150.5	2285.9	2421.4	2491.6	2605.7	2585.6	2373.7
20°	1862.1	1883.4	1894.7	1928.6	2000.0	2135.5	2337.4	2393.8	2515.4	2584.4	2311.0
22.5°	1865.9	1865.9	1839.5	1859.6	1924.8	2030.1	2223.2	2285.9	2479.1	2519.2	2254.6
25°	1906.0	1880.9	1882.2	1858.3	1885.9	1943.6	2120.4	2196.9	2405.1	2525.4	2224.5
27.5°	1936.1	1931.1	1923.6	1917.3	1882.2	1891.0	2052.7	2115.4	2376.2	2517.9	2178.1
30°	2045.2	2022.6	2015.1	2001.3	1954.9	1912.3	1998.8	2077.8	2353.7	2535.5	2151.8
32.5°	2136.7	2140.5	2146.8	2106.6	2066.5	1961.2	2013.8	2076.5	2337.4	2575.6	2178.1
35°	2252.1	2268.4	2270.9	2258.4	2215.7	2111.6	2076.5	2130.5	2364.9	2647.1	2180.6
37.5°	2427.6	2410.1	2457.7	2462.8	2432.7	2294.7	2222.0	2243.3	2446.5	2761.2	2275.9
40°	2541.8	2563.1	2652.1	2707.3	2655.9	2530.5	2432.7	2428.9	2564.3	2940.5	2393.8
42.5°	2668.4	2716.0	2813.9	2933.0	2926.7	2810.1	2711.0	2694.7	2773.7	3200.1	2580.6
45°	2841.4	2884.1	3020.8	3200.1	3297.9	3198.8	3049.6	3017.0	3028.3	3553.7	2899.1
47.5°	3128.6	3117.3	3314.2	3491.0	3651.5	3575.0	3511.1	3415.8	3407.0	3970.0	3339.3
50°	3453.4	3450.9	3626.4	3827.0	4012.6	4161.9	4055.3	3951.2	3953.7	4535.5	3857.1
52.5°	3761.8	3810.7	4000.1	4199.5	4518.0	4678.5	4781.3	4739.9	4540.5	5040.9	4411.4
55°	3924.9	3967.5	4155.6	4499.2	5002.0	5414.5	5692.9	5657.8	5272.8	5610.2	4958.1
57.5°	3770.6	3799.5	4054.0	4504.2	5340.6	6261.0	6528.0	6484.2	6030.2	6045.3	5618.9
60°	3124.8	3170.0	3548.7	4076.6	5208.9	6913.0	7677.9	7611.5	6719.9	6595.8	6044.0
62.5°	2164.3	2194.4	2505.4	3162.5	4584.4	7140.0	8763.8	8800.2	7447.2	7024.6	6170.7
65°	1401.9	1399.4	1577.5	2022.6	3249.0	6452.8	9405.9	9631.6	8149.4	7089.8	6131.8
67°	990.6	986.9	1070.9	1371.8	2249.6	5316.7	9394.6	9879.8	8530.6	7108.6	5771.9
67.5°	914.1	910.4	990.6	1261.5	2030.1	4944.3	9254.1	9751.9	8664.8	7082.3	5613.9
70°	709.7	699.7	729.8	869.0	1182.5	3197.6	7919.9	8958.2	8386.4	6425.2	4482.9
72.5°	512.9	524.1	571.8	713.5	927.9	1720.4	6036.5	7244.1	7004.5	4842.7	2849.0
75°	357.4	367.4	443.9	581.8	851.4	1043.3	4081.6	5254.0	4879.1	2673.4	1213.8
77.5°	186.8	199.4	283.4	465.2	773.7	807.5	2438.9	3331.7	2585.6	951.7	334.8
80°	86.5	92.8	141.7	329.8	647.0	709.7	1422.0	1853.3	1034.5	213.2	115.4
82.5°	37.6	41.4	65.2	189.3	458.9	620.7	880.3	971.8	374.9	69.0	71.5
85°	7.5	8.8	25.1	100.3	221.9	376.2	618.2	576.8	188.1	33.9	56.4
87.5°	0.0	0.0	6.3	28.8	60.2	111.6	262.1	262.1	57.7	17.6	21.3
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°	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9	2675.9
2.5°	2677.2	2632.0	2533.0	2441.4	2376.2	2302.2	2204.4	2160.6	2144.2	2121.7	2087.8
5°	2607.0	2551.8	2382.5	2212.0	2025.1	1883.4	1733.0	1645.2	1578.7	1537.3	1523.5
7.5°	2507.9	2395.0	2166.8	1893.5	1651.4	1440.8	1212.6	1058.3	959.3	919.1	881.5
10°	2428.9	2282.2	1934.8	1595.0	1272.8	964.3	707.2	571.8	469.0	430.1	425.1
12.5°	2326.1	2150.5	1717.9	1290.3	885.3	574.3	391.2	339.8	311.0	306.0	302.2
15°	2240.8	2031.4	1512.3	999.4	573.1	358.6	304.7	292.2	284.6	282.1	283.4
17.5°	2183.1	1903.5	1301.6	727.3	377.4	293.4	280.9	273.4	269.6	268.3	264.6
20°	2069.0	1795.7	1093.4	509.1	294.7	270.9	260.8	254.6	250.8	249.5	248.3
22.5°	2003.8	1659.0	885.3	354.9	262.1	245.8	238.2	233.2	227.0	223.2	221.9
25°	1938.6	1558.7	699.7	275.9	238.2	227.0	215.7	209.4	199.4	194.4	193.1
27.5°	1862.1	1459.6	539.2	239.5	214.4	203.1	191.9	181.8	169.3	164.3	161.8
30°	1818.2	1363.0	406.3	214.4	196.9	181.8	168.0	155.5	141.7	132.9	130.4
32.5°	1795.7	1275.3	304.7	195.6	178.1	161.8	144.2	129.2	116.6	109.1	107.8
35°	1768.1	1190.0	239.5	178.1	160.5	142.9	125.4	110.3	97.8	91.5	89.0
37.5°	1796.9	1139.8	199.4	164.3	146.7	126.6	107.8	92.8	82.8	76.5	75.2
40°	1875.9	1098.5	173.0	151.7	132.9	111.6	94.0	79.0	70.2	65.2	62.7
42.5°	1997.5	1098.5	156.7	139.2	120.4	97.8	80.3	69.0	60.2	55.2	53.9
45°	2218.2	1132.3	142.9	126.6	105.3	84.0	69.0	57.7	48.9	43.9	42.6
47.5°	2528.0	1210.1	131.7	115.4	94.0	74.0	60.2	48.9	40.1	35.1	33.9
50°	2944.3	1386.9	120.4	101.6	84.0	64.0	50.2	38.9	31.3	26.3	25.1
52.5°	3463.4	1637.7	109.1	94.0	71.5	53.9	40.1	31.3	23.8	20.1	18.8
55°	4012.6	1944.9	95.3	84.0	61.4	45.1	32.6	23.8	17.6	15.0	13.8
57.5°	4565.6	2181.9	84.0	72.7	50.2	36.4	26.3	18.8	12.5	10.0	8.8
60°	4859.0	2204.4	72.7	60.2	40.1	28.8	20.1	13.8	8.8	6.3	5.0
62.5°	4904.2	2003.8	62.7	48.9	32.6	22.6	13.8	10.0	5.0	2.5	2.5
65°	4672.2	1670.3	53.9	38.9	25.1	16.3	10.0	6.3	2.5	1.3	0.0
67°	4296.0	1399.4	46.4	32.6	20.1	12.5	7.5	3.8	1.3	0.0	0.0
67.5°	4150.6	1324.2	43.9	30.1	18.8	11.3	6.3	3.8	1.3	0.0	0.0
70°	3221.4	945.5	32.6	21.3	13.8	8.8	5.0	2.5	0.0	0.0	0.0
72.5°	1973.7	553.0	25.1	15.0	10.0	6.3	3.8	1.3	0.0	0.0	0.0
75°	827.6	190.6	21.3	11.3	7.5	3.8	2.5	1.3	0.0	0.0	0.0
77.5°	215.7	71.5	15.0	7.5	5.0	3.8	2.5	1.3	0.0	0.0	0.0
80°	87.8	32.6	10.0	5.0	5.0	3.8	2.5	1.3	0.0	0.0	0.0
82.5°	57.7	15.0	6.3	5.0	3.8	2.5	1.3	0.0	0.0	0.0	0.0
85°	43.9	8.8	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	18.8	5.0	3.8	2.5	2.5	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)