

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: P483963

Luminaire Tested: **IFLD-S-SA2B-735-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483963  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-735-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (32) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

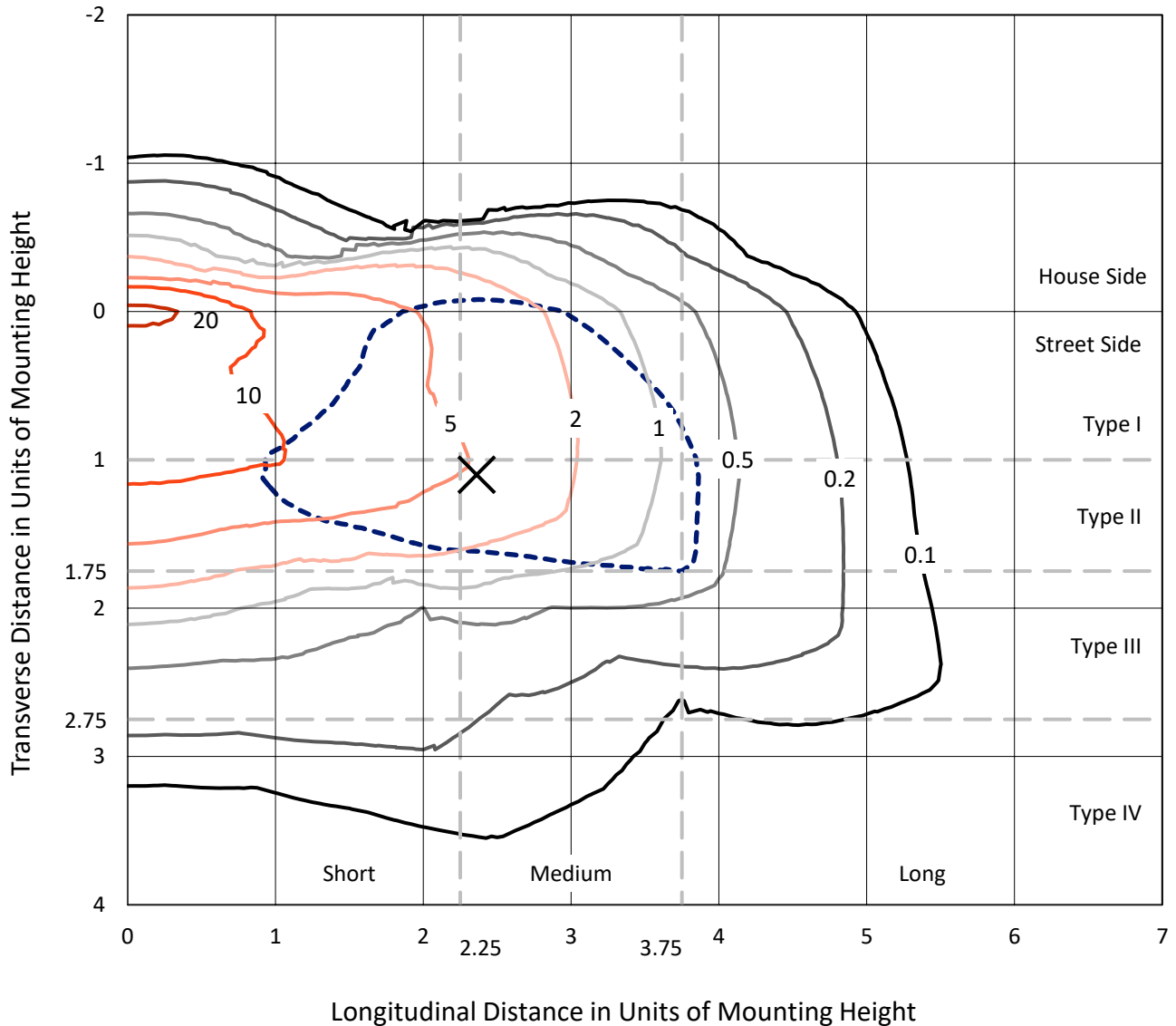
Lumens per Lamp: N/A  
Luminaire Lumens: 9268.7 lumens  
Efficiency: N/A  
Efficacy: 112.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4  
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

REPORT NUMBER: P483963  
 CATALOG NUMBER: IFLD-S-SA2B-735-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

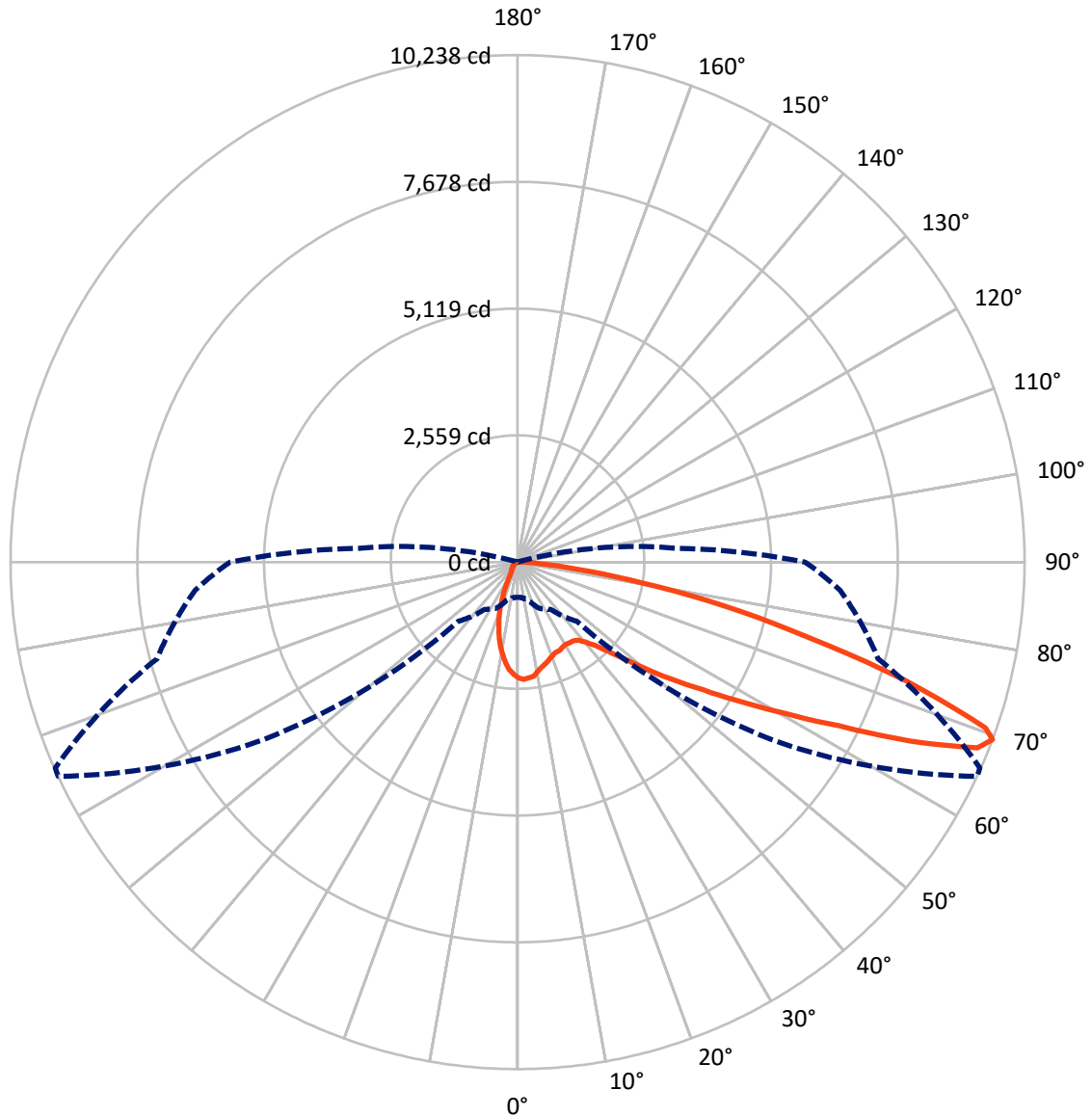
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P483963  
CATALOG NUMBER: IFLD-S-SA2B-735-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P483963  
 CATALOG NUMBER: IFLD-S-SA2B-735-U-SL2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1124.4	0.0	1124.4
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	8144.3	0.0	8144.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	9268.7	0.0	9268.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.2	2.1
10°-20°	418.4	4.5
20°-30°	582.5	6.3
30°-40°	825.5	8.9
40°-50°	1300.9	14.0
50°-60°	2111.0	22.8
60°-70°	2357.5	25.4
70°-80°	1327.6	14.3
80°-90°	154.1	1.7
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°	9268.7	100.0
0°-180°	9268.7	100.0



REPORT NUMBER: P483963

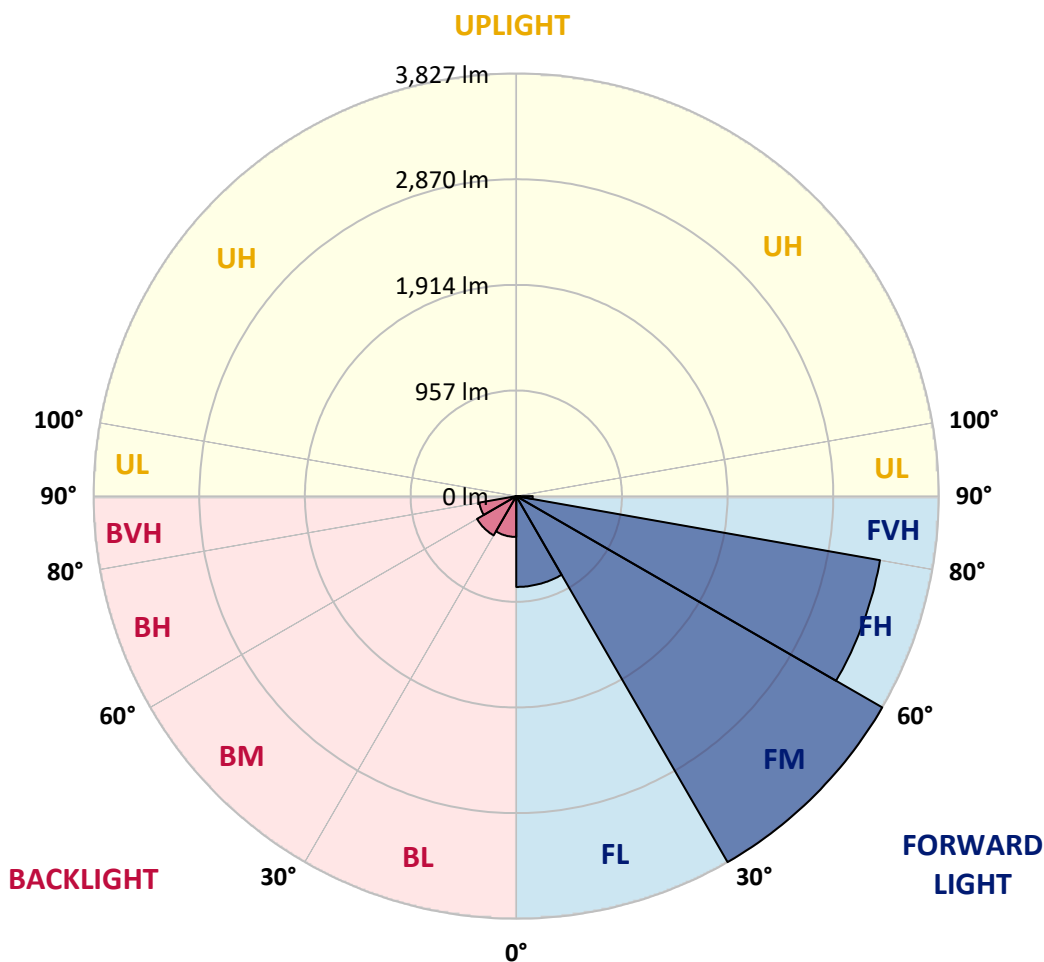
CATALOG NUMBER: IFLD-S-SA2B-735-U-SL2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.5	8.9			
FM (30°-60°)	3827.1	41.3			
FH (60°-80°)	3344.9	36.1			G2/5000
FVH (80°-90°)	149.8	1.6			G2/225
BL (0°-30°)	369.7	4.0	B1/500		
BM (30°-60°)	410.3	4.4	B1/1000		
BH (60°-80°)	340.2	3.7	B1/500		G1/500
BVH (80°-90°)	4.3	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 II Medium





REPORT NUMBER: P483963

CATALOG NUMBER: IFLD-S-SA2B-735-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8
2.5°	2250.6	2268.1	2273.1	2290.6	2299.3	2336.8	2358.1	2370.6	2364.4	2378.1	2379.4
5°	2090.5	2080.5	2106.8	2125.5	2165.6	2230.6	2296.8	2348.1	2371.9	2394.4	2390.6
7.5°	1919.2	1914.2	1940.5	1983.0	2019.3	2098.0	2204.3	2330.6	2325.6	2380.6	2396.9
10°	1801.7	1806.7	1815.5	1858.0	1911.7	1991.8	2124.3	2241.8	2268.1	2384.4	2416.9
12.5°	1694.2	1702.9	1719.2	1763.0	1825.5	1908.0	2036.8	2174.3	2214.3	2363.1	2428.1
15°	1659.2	1639.2	1671.7	1704.2	1769.2	1843.0	1951.8	2123.0	2140.5	2338.1	2446.9
17.5°	1630.4	1617.9	1632.9	1659.2	1727.9	1788.0	1890.5	2068.0	2100.5	2328.1	2444.4
20°	1639.2	1627.9	1634.2	1654.2	1685.4	1741.7	1836.7	2015.5	2050.5	2281.8	2440.6
22.5°	1664.2	1672.9	1661.7	1666.7	1676.7	1705.4	1808.0	1978.0	2008.0	2273.1	2461.9
25°	1776.7	1761.7	1746.7	1740.4	1681.7	1694.2	1799.2	1975.5	1996.8	2241.8	2444.4
27.5°	1894.2	1881.7	1875.5	1839.2	1759.2	1721.7	1800.5	1940.5	1969.3	2229.3	2423.1
30°	2036.8	2053.0	2028.0	1984.3	1873.0	1780.5	1814.2	1923.0	1963.0	2181.8	2409.4
32.5°	2186.8	2195.6	2208.1	2175.6	2031.8	1869.2	1855.5	1939.2	1941.7	2181.8	2378.1
35°	2356.9	2344.4	2376.9	2379.4	2253.1	2026.8	1934.2	1950.5	1976.8	2171.8	2366.9
37.5°	2503.1	2524.4	2561.9	2621.9	2491.9	2249.3	2056.8	2003.0	2014.3	2218.1	2375.6
40°	2663.2	2684.4	2769.5	2829.5	2755.7	2499.4	2243.1	2125.5	2134.3	2286.8	2420.6
42.5°	2839.5	2880.7	2982.0	3087.0	3067.0	2817.0	2483.1	2305.6	2301.8	2458.1	2513.1
45°	3078.3	3133.3	3243.3	3364.6	3382.1	3180.8	2803.2	2574.4	2586.9	2681.9	2704.4
47.5°	3410.9	3408.4	3515.9	3650.9	3752.2	3558.4	3185.8	2935.8	2934.5	3035.8	2988.3
50°	3732.2	3733.5	3762.2	3918.5	4181.1	4082.3	3659.7	3415.9	3402.1	3452.1	3375.9
52.5°	3881.0	3863.5	3842.2	4031.0	4511.2	4742.5	4259.8	3959.8	3948.5	3918.5	3898.5
55°	3724.7	3731.0	3729.7	3926.0	4685.0	5438.9	5030.0	4558.7	4539.9	4446.1	4473.6
57.5°	3223.3	3203.3	3247.1	3553.4	4486.1	5914.0	6131.6	5313.9	5265.1	4953.8	4891.3
60°	2399.4	2405.6	2441.9	2803.2	3992.3	6014.0	7185.6	6200.3	5990.3	5311.4	5225.1
62.5°	1675.4	1662.9	1676.7	1879.2	2854.5	5613.9	7898.3	7278.1	7075.6	5717.7	5667.7
65°	1199.1	1182.8	1237.8	1361.6	1714.2	4292.4	7999.6	8713.5	8532.2	6366.6	6246.6
67.5°	862.7	860.2	924.0	1149.0	1217.8	2471.9	7249.4	10013.8	9903.8	7136.8	6599.2
69°	713.9	715.2	776.4	1029.0	1162.8	1687.9	6237.8	10237.6	10217.6	7534.4	6532.9
70°	622.7	627.7	698.9	957.7	1140.3	1387.9	5377.6	10017.6	9997.6	7612.0	6314.1
72.5°	383.8	387.6	481.4	767.7	1084.0	1132.8	3215.8	8195.9	8264.6	7256.9	5440.1
75°	183.8	185.0	252.6	555.1	1045.3	1074.0	1722.9	6047.8	6192.8	5859.0	4251.1
77.5°	97.5	97.5	121.3	295.1	846.5	1010.3	1022.8	4266.1	4386.1	3704.7	2416.9
80°	48.8	50.0	73.8	153.8	525.1	990.3	799.0	2544.4	2609.4	1511.6	752.7
82.5°	18.8	20.0	35.0	92.5	272.6	836.5	701.4	1251.6	1235.3	353.8	183.8
85°	2.5	2.5	12.5	55.0	116.3	368.8	578.9	522.6	505.1	77.5	88.8
87.5°	0.0	0.0	2.5	16.3	35.0	107.5	223.8	143.8	160.0	21.3	43.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P483963

CATALOG NUMBER: IFLD-S-SA2B-735-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8	2336.8
2.5°	2373.1	2346.9	2306.8	2268.1	2226.8	2176.8	2121.8	2101.8	2066.8	2064.3	2084.3
5°	2370.6	2328.1	2258.1	2175.6	2058.0	1969.3	1873.0	1803.0	1749.2	1714.2	1722.9
7.5°	2383.1	2331.8	2210.6	2033.0	1881.7	1705.4	1556.6	1454.1	1360.3	1314.1	1309.1
10°	2363.1	2294.3	2116.8	1868.0	1645.4	1399.1	1181.6	1044.0	904.0	852.7	855.2
12.5°	2374.4	2278.1	2015.5	1697.9	1391.6	1071.5	811.5	623.9	492.6	450.1	445.1
15°	2381.9	2243.1	1918.0	1494.1	1110.3	730.2	470.1	353.8	312.6	305.1	303.8
17.5°	2353.1	2200.6	1780.5	1292.8	822.7	443.9	312.6	288.8	281.3	276.3	273.8
20°	2351.9	2175.6	1661.7	1086.5	548.9	302.6	270.1	261.3	250.1	246.3	246.3
22.5°	2330.6	2123.0	1519.1	860.2	350.1	260.1	242.6	228.8	216.3	211.3	210.1
25°	2324.3	2061.8	1385.4	646.4	266.3	232.6	215.1	195.0	180.0	172.5	168.8
27.5°	2306.8	2009.3	1250.3	455.1	232.6	207.6	185.0	163.8	146.3	135.0	133.8
30°	2244.3	1954.3	1100.3	315.1	211.3	183.8	158.8	133.8	116.3	108.8	106.3
32.5°	2218.1	1903.0	936.5	242.6	192.5	162.5	133.8	111.3	97.5	90.0	88.8
35°	2186.8	1828.0	777.7	211.3	175.0	141.3	112.5	93.8	82.5	76.3	76.3
37.5°	2190.6	1768.0	628.9	191.3	156.3	121.3	96.3	80.0	70.0	63.8	63.8
40°	2179.3	1720.4	488.9	173.8	138.8	103.8	81.3	67.5	58.8	52.5	51.3
42.5°	2230.6	1707.9	368.8	158.8	121.3	88.8	70.0	57.5	48.8	41.3	41.3
45°	2316.8	1727.9	287.6	145.0	103.8	76.3	60.0	47.5	38.8	33.8	32.5
47.5°	2546.9	1806.7	225.1	133.8	88.8	66.3	50.0	38.8	31.3	26.3	25.0
50°	2880.7	1983.0	191.3	117.5	75.0	56.3	41.3	30.0	25.0	20.0	18.8
52.5°	3355.9	2279.3	173.8	103.8	62.5	46.3	32.5	23.8	18.8	15.0	13.8
55°	3873.5	2649.4	157.5	87.5	52.5	37.5	26.3	18.8	13.8	10.0	8.8
57.5°	4277.3	2969.5	143.8	72.5	42.5	30.0	20.0	13.8	10.0	6.3	5.0
60°	4718.7	3194.6	126.3	57.5	35.0	22.5	15.0	10.0	7.5	3.8	3.8
62.5°	5173.8	3458.4	103.8	45.0	27.5	17.5	11.3	7.5	5.0	1.3	1.3
65°	5806.5	3664.7	80.0	35.0	21.3	12.5	8.8	6.3	2.5	0.0	0.0
67.5°	5985.3	3563.4	58.8	27.5	15.0	8.8	6.3	3.8	1.3	0.0	0.0
69°	5806.5	3209.6	51.3	23.8	12.5	7.5	5.0	2.5	1.3	0.0	0.0
70°	5480.2	2934.5	45.0	20.0	11.3	7.5	3.8	2.5	1.3	0.0	0.0
72.5°	4583.7	2250.6	35.0	15.0	8.8	6.3	3.8	2.5	0.0	0.0	0.0
75°	3362.1	1390.4	26.3	11.3	7.5	5.0	3.8	2.5	0.0	0.0	0.0
77.5°	1801.7	507.6	18.8	7.5	5.0	3.8	3.8	2.5	0.0	0.0	0.0
80°	493.9	150.0	13.8	5.0	3.8	2.5	2.5	1.3	0.0	0.0	0.0
82.5°	135.0	38.8	8.8	5.0	3.8	2.5	1.3	0.0	0.0	0.0	0.0
85°	72.5	15.0	5.0	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	37.5	5.0	3.8	2.5	2.5	1.3	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)