

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: P484706

Luminaire Tested: **IFLD-S-SA2D-730-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484706  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

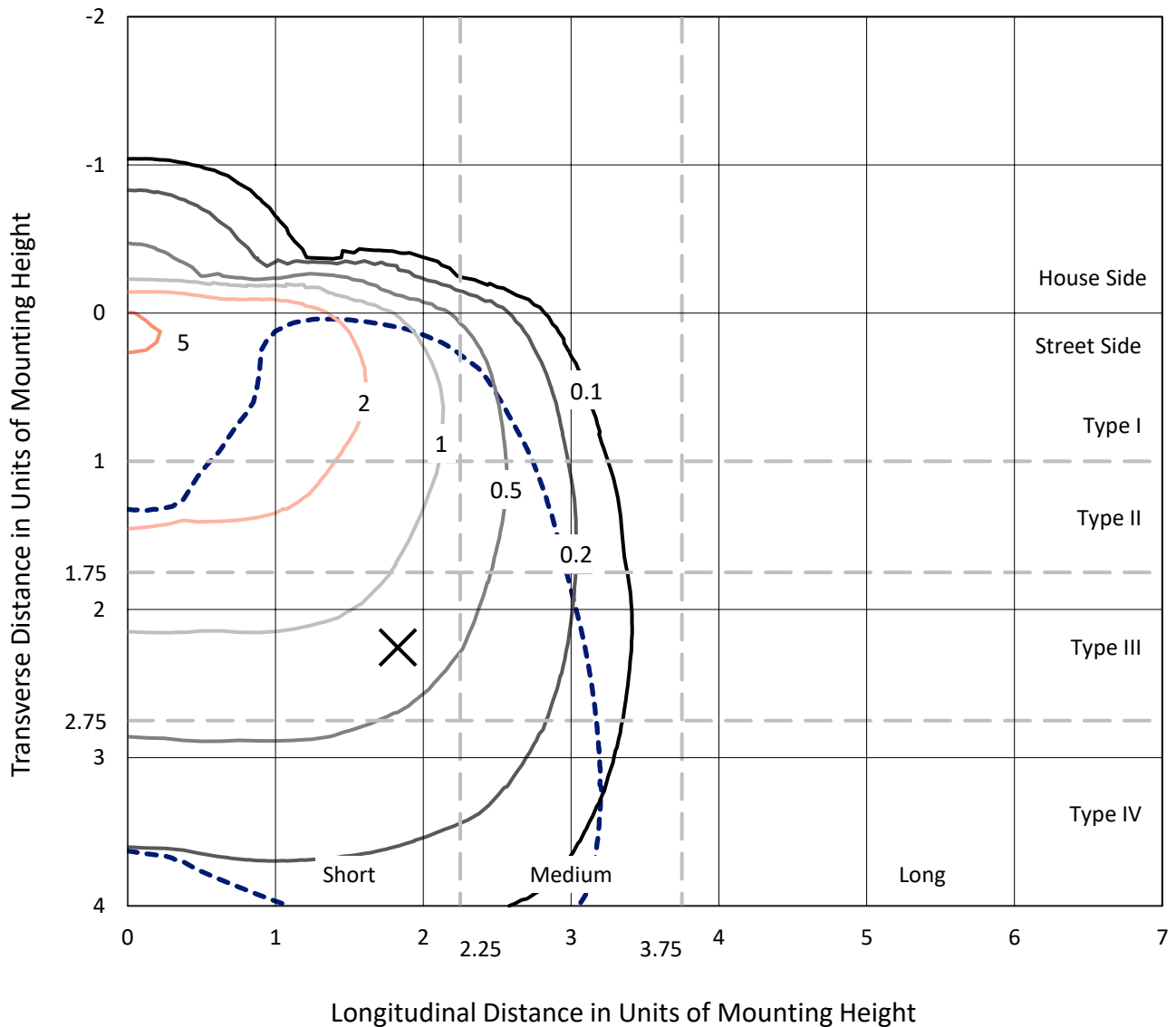
Lumens per Lamp: N/A  
Luminaire Lumens: 11765 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

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

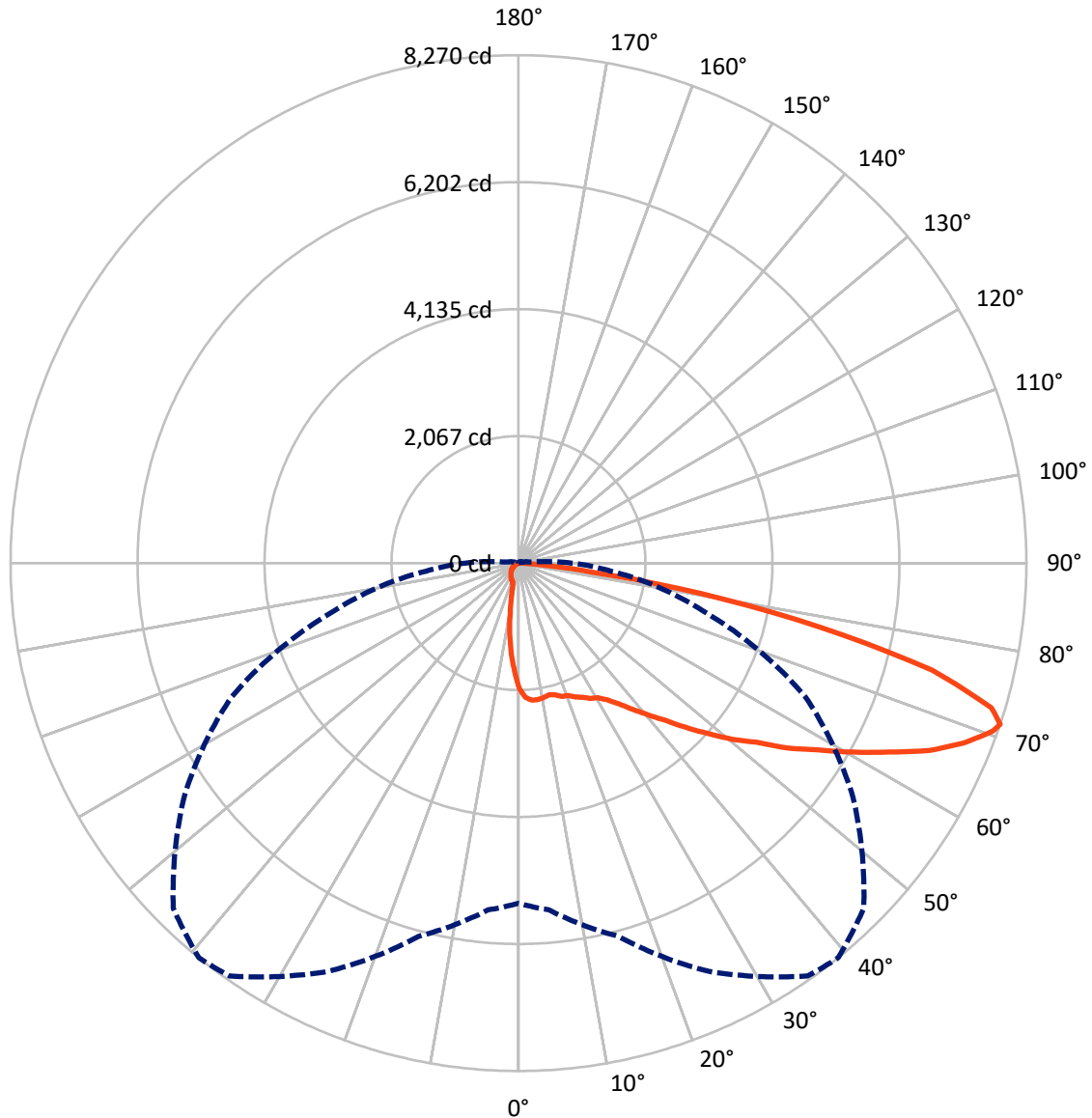
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	885.7	0.0	885.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	10879.3	0.0	10879.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	11765.0	0.0	11765.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.2	1.5
10°-20°	421.4	3.6
20°-30°	676.5	5.8
30°-40°	1035.5	8.8
40°-50°	1662.2	14.1
50°-60°	2441.6	20.8
60°-70°	3075.0	26.1
70°-80°	2052.2	17.4
80°-90°	229.3	1.9
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°	11765.0	100.0
0°-180°	11765.0	100.0



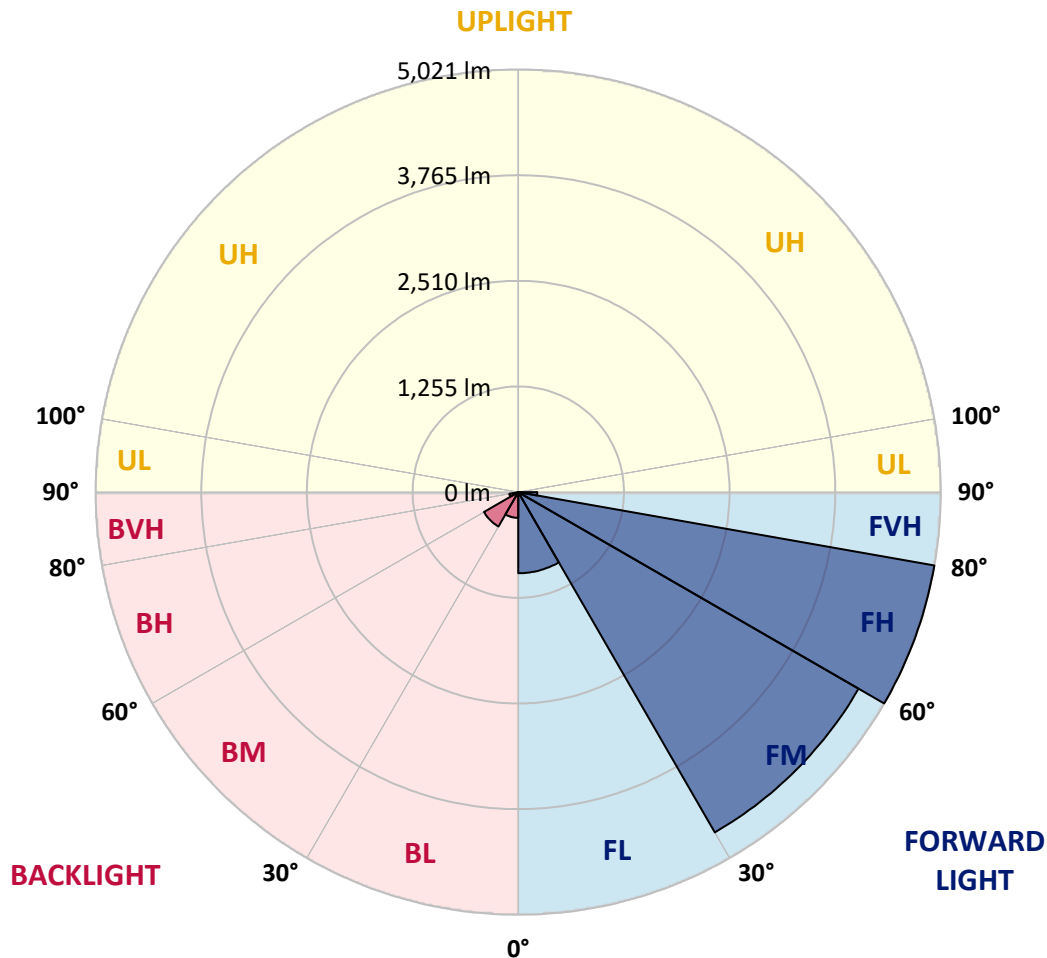
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	963.3	8.2			
FM (30°-60°)	4668.5	39.7			
FH (60°-80°)	5020.6	42.7			G3/7500
FVH (80°-90°)	226.8	1.9			G3/500
BL (0°-30°)	305.8	2.6	B1/500		
BM (30°-60°)	470.8	4.0	B1/1000		
BH (60°-80°)	106.6	0.9	B0/110		G0/110
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8
2.5°	2206.7	2228.3	2206.7	2197.5	2188.2	2189.7	2165.1	2169.7	2140.4	2101.8	2070.9
5°	2276.2	2305.5	2282.3	2271.5	2270.0	2240.7	2228.3	2199.0	2163.5	2103.3	2066.3
7.5°	2270.0	2263.8	2274.6	2265.4	2245.3	2245.3	2231.4	2189.7	2154.3	2086.4	2023.1
10°	2223.7	2242.2	2233.0	2222.2	2226.8	2228.3	2202.1	2172.8	2162.0	2094.1	1990.7
12.5°	2219.1	2188.2	2222.2	2223.7	2203.6	2202.1	2199.0	2191.3	2157.3	2095.6	1998.4
15°	2203.6	2191.3	2225.2	2226.8	2231.4	2226.8	2231.4	2225.2	2191.3	2155.8	2032.3
17.5°	2216.0	2202.1	2249.9	2273.1	2262.3	2283.9	2276.2	2248.4	2219.1	2177.4	2064.8
20°	2219.1	2239.1	2291.6	2300.9	2334.8	2299.3	2297.8	2268.5	2249.9	2205.2	2084.8
22.5°	2276.2	2285.4	2350.2	2370.3	2371.8	2367.2	2328.6	2294.7	2287.0	2231.4	2089.4
25°	2362.6	2395.0	2424.3	2436.7	2441.3	2419.7	2379.6	2336.3	2317.8	2282.3	2137.3
27.5°	2515.4	2495.3	2521.5	2540.0	2487.6	2495.3	2444.4	2407.3	2381.1	2350.2	2192.8
30°	2651.2	2632.6	2634.2	2631.1	2586.3	2544.7	2530.8	2466.0	2433.6	2445.9	2279.3
32.5°	2773.1	2732.9	2766.9	2751.5	2668.1	2655.8	2645.0	2563.2	2569.4	2626.5	2408.9
35°	2885.7	2871.8	2899.6	2871.8	2816.3	2813.2	2802.4	2731.4	2765.3	2847.1	2631.1
37.5°	2989.1	2993.7	3027.7	3013.8	3018.4	3021.5	3015.3	2939.7	3036.9	3220.6	2890.3
40°	3084.8	3078.6	3161.9	3205.2	3214.4	3248.4	3248.4	3229.8	3379.5	3586.3	3249.9
42.5°	3186.6	3202.1	3310.1	3382.6	3470.6	3499.9	3540.0	3549.3	3780.8	4016.9	3617.2
45°	3353.3	3327.1	3464.4	3635.7	3712.9	3816.2	3878.0	3930.4	4209.8	4533.8	3984.4
47.5°	3564.7	3512.2	3632.6	3881.1	4060.1	4144.9	4256.0	4325.5	4598.6	4933.5	4331.7
50°	3799.3	3745.3	3803.9	4146.5	4354.8	4509.1	4651.1	4739.1	5069.3	5381.0	4584.7
52.5°	4064.7	4015.3	4024.6	4422.7	4729.8	4842.4	5029.2	5160.3	5489.0	5651.1	4674.2
55°	4347.1	4334.7	4305.4	4692.8	5058.5	5311.6	5424.2	5581.6	5919.6	5797.7	4771.5
57.5°	4631.0	4592.5	4634.1	5050.8	5586.3	5737.5	5893.3	5987.5	6158.8	5925.7	4734.4
60°	4898.0	4901.1	4959.7	5439.7	6035.3	6249.8	6390.2	6333.1	6404.1	5981.3	4649.6
62.5°	5123.3	5117.1	5265.3	5876.4	6629.4	6774.5	6879.4	6624.8	6518.3	6035.3	4501.4
65°	5325.5	5394.9	5627.9	6396.4	7188.1	7354.7	7291.4	6901.0	6629.4	5876.4	4084.8
67.5°	5478.2	5581.6	5985.9	6885.6	7700.4	7817.7	7729.7	7110.9	6498.3	5252.9	3327.1
70°	5567.7	5672.7	6242.1	7293.0	8109.3	8194.2	7987.4	6948.9	5732.9	3803.9	2075.6
71°	5540.0	5668.0	6291.5	7336.2	8206.5	8269.8	7948.8	6649.5	5155.7	3185.1	1513.8
72.5°	5288.4	5408.8	6086.2	7305.3	8089.3	8050.7	7647.9	5930.4	4058.5	2030.8	782.4
75°	3885.7	4015.3	5223.6	6319.3	7220.5	6955.0	6189.6	4161.9	2117.2	621.9	228.4
77.5°	1935.1	1956.7	3242.2	4587.8	5296.1	5032.3	4148.0	2320.9	791.6	183.6	114.2
80°	891.9	898.1	1216.0	2376.5	3202.1	3013.8	2324.0	1145.0	358.0	97.2	89.5
82.5°	608.0	617.3	733.0	984.5	1390.4	1172.8	941.3	733.0	205.2	58.6	88.0
85°	111.1	101.8	410.5	521.6	537.0	364.2	325.6	634.2	77.2	33.9	77.2
87.5°	0.0	1.5	57.1	213.0	191.4	84.9	111.1	154.3	7.7	10.8	13.9
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°	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8	2047.8
2.5°	2044.7	2027.7	1970.6	1907.4	1850.3	1805.5	1748.4	1722.2	1680.5	1657.4	1655.8
5°	2015.4	1969.1	1870.3	1763.8	1645.0	1546.3	1436.7	1375.0	1304.0	1282.4	1277.7
7.5°	1966.0	1899.6	1754.6	1604.9	1422.8	1248.4	1114.2	970.6	882.7	845.7	831.8
10°	1935.1	1854.9	1657.4	1433.6	1179.0	933.6	745.3	592.6	512.3	473.8	464.5
12.5°	1935.1	1848.7	1578.7	1270.0	932.1	638.9	461.4	373.4	347.2	338.0	338.0
15°	1930.5	1836.4	1503.0	1101.8	689.8	429.0	344.1	325.6	322.5	321.0	319.4
17.5°	1953.6	1814.8	1425.9	921.3	487.6	338.0	316.3	313.3	310.2	310.2	307.1
20°	1970.6	1802.4	1333.3	729.9	364.2	313.3	304.0	299.4	297.8	296.3	299.4
22.5°	1956.7	1783.9	1219.1	546.3	317.9	297.8	291.7	287.0	283.9	283.9	285.5
25°	1983.0	1766.9	1104.9	412.0	297.8	283.9	277.8	274.7	273.1	271.6	268.5
27.5°	2018.5	1774.6	969.1	331.8	280.9	270.1	263.9	260.8	259.3	256.2	259.3
30°	2061.7	1773.1	819.4	290.1	265.4	254.6	248.4	246.9	243.8	242.3	243.8
32.5°	2135.7	1813.2	665.1	268.5	248.4	239.2	233.0	231.5	229.9	228.4	226.8
35°	2294.7	1862.6	520.0	251.5	233.0	222.2	217.6	214.5	213.0	211.4	209.9
37.5°	2490.7	1972.2	396.6	236.1	217.6	206.8	202.2	200.6	194.4	192.9	191.4
40°	2736.0	2089.4	305.5	219.1	203.7	192.9	188.3	183.6	175.9	172.8	169.7
42.5°	3041.6	2203.6	251.5	203.7	188.3	180.6	172.8	165.1	158.9	152.8	149.7
45°	3347.1	2336.3	220.7	189.8	175.9	166.7	160.5	149.7	138.9	129.6	128.1
47.5°	3601.7	2384.2	202.2	174.4	163.6	155.9	146.6	132.7	117.3	108.0	106.5
50°	3791.6	2356.4	183.6	158.9	149.7	142.0	129.6	112.7	97.2	88.0	84.9
52.5°	3828.6	2234.5	166.7	146.6	135.8	126.5	112.7	94.1	77.2	67.9	66.4
55°	3802.4	2032.3	152.8	135.8	123.5	109.6	94.1	75.6	60.2	50.9	49.4
57.5°	3748.3	1793.2	137.3	121.9	108.0	94.1	77.2	61.7	44.8	35.5	35.5
60°	3564.7	1467.5	121.9	106.5	92.6	80.2	63.3	44.8	30.9	23.1	21.6
62.5°	3308.5	1128.1	106.5	91.0	80.2	66.4	49.4	32.4	18.5	12.3	12.3
65°	2841.0	790.1	89.5	75.6	66.4	54.0	37.0	20.1	10.8	4.6	4.6
67.5°	2158.9	489.2	74.1	63.3	57.1	43.2	26.2	12.3	4.6	1.5	0.0
70°	1239.2	254.6	58.6	50.9	44.8	32.4	18.5	6.2	3.1	0.0	0.0
71°	865.7	188.3	52.5	44.8	40.1	29.3	15.4	4.6	1.5	0.0	0.0
72.5°	433.6	125.0	44.8	37.0	32.4	23.1	12.3	4.6	1.5	0.0	0.0
75°	154.3	80.2	30.9	24.7	23.1	17.0	7.7	3.1	1.5	0.0	0.0
77.5°	106.5	64.8	21.6	15.4	15.4	10.8	4.6	1.5	1.5	0.0	0.0
80°	97.2	35.5	13.9	9.3	7.7	6.2	3.1	1.5	0.0	0.0	0.0
82.5°	97.2	26.2	7.7	6.2	4.6	3.1	1.5	0.0	0.0	0.0	0.0
85°	67.9	13.9	4.6	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	10.8	4.6	3.1	1.5	1.5	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)