

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: P484670

Luminaire Tested: **IFLD-S-SA3B-727-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484670  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3B-727-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

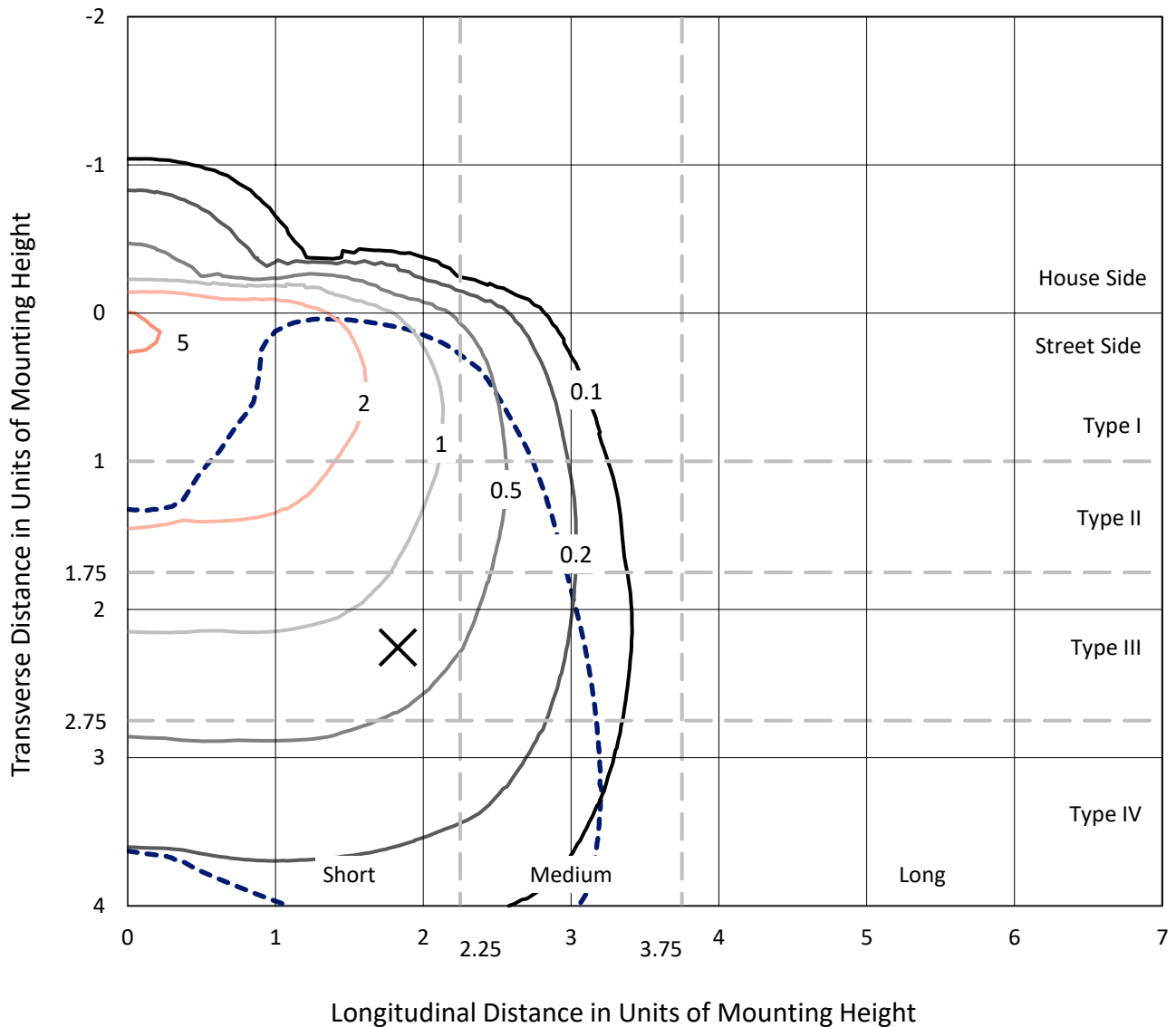
Lumens per Lamp: N/A  
Luminaire Lumens: 11755.9 lumens  
Efficiency: N/A  
Efficacy: 96.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 122.4  
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: P484670  
 CATALOG NUMBER: IFLD-S-SA3B-727-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

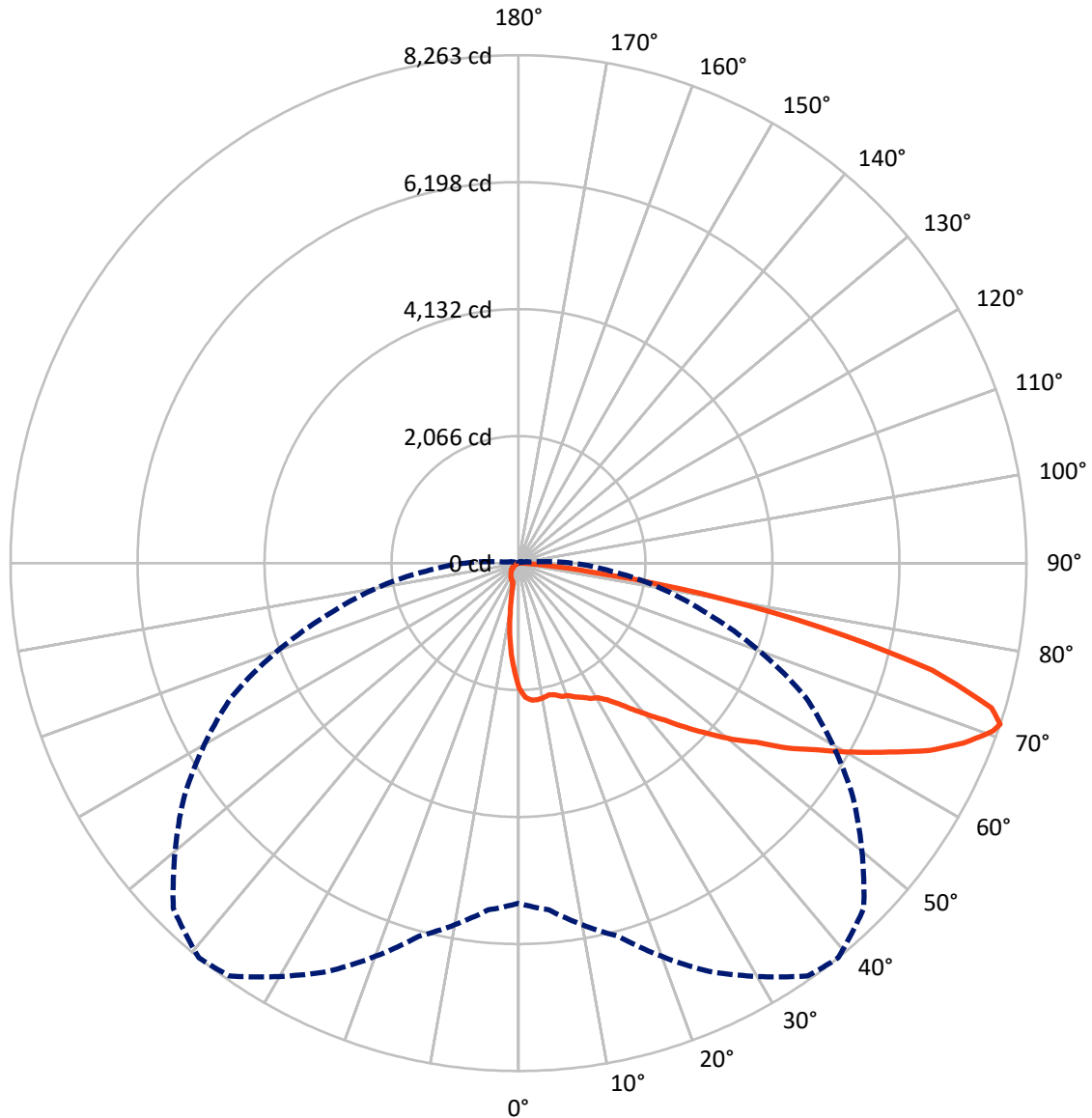
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P484670  
CATALOG NUMBER: IFLD-S-SA3B-727-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P484670  
 CATALOG NUMBER: IFLD-S-SA3B-727-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	885.0	0.0	885.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	10870.9	0.0	10870.9
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	11755.9	0.0	11755.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.1	1.5
10°-20°	421.1	3.6
20°-30°	676.0	5.8
30°-40°	1034.7	8.8
40°-50°	1660.9	14.1
50°-60°	2439.7	20.8
60°-70°	3072.7	26.1
70°-80°	2050.6	17.4
80°-90°	229.2	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°	11755.9	100.0
0°-180°	11755.9	100.0

**Coefficient of Utilization**



REPORT NUMBER: P484670

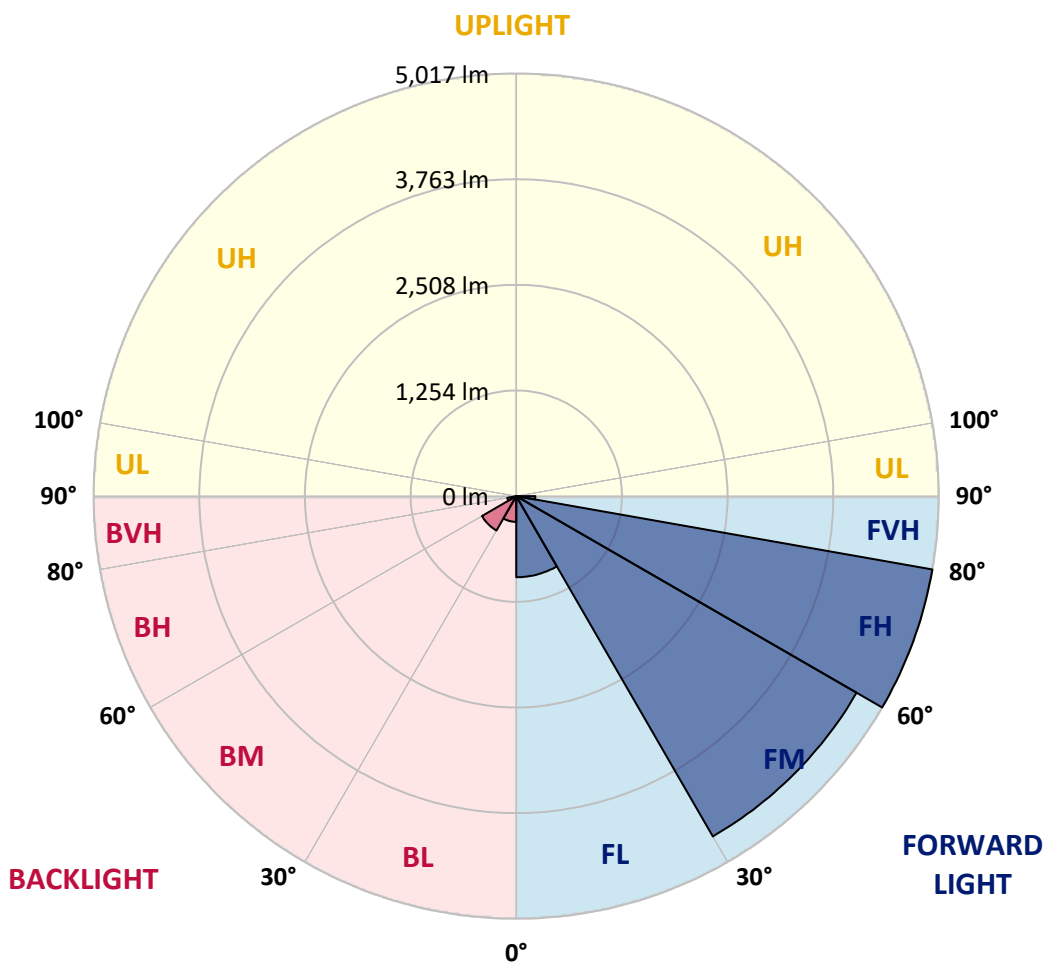
CATALOG NUMBER: IFLD-S-SA3B-727-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	962.6	8.2			
FM (30°-60°)	4664.9	39.7			
FH (60°-80°)	5016.8	42.7			G3/7500
FVH (80°-90°)	226.6	1.9			G3/500
BL (0°-30°)	305.6	2.6	B1/500		
BM (30°-60°)	470.4	4.0	B1/1000		
BH (60°-80°)	106.5	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





REPORT NUMBER: P484670

CATALOG NUMBER: IFLD-S-SA3B-727-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2
2.5°	2205.0	2226.6	2205.0	2195.8	2186.5	2188.1	2163.4	2168.0	2138.7	2100.2	2069.3
5°	2274.4	2303.7	2280.6	2269.8	2268.2	2238.9	2226.6	2197.3	2161.8	2101.7	2064.7
7.5°	2268.2	2262.1	2272.9	2263.6	2243.6	2243.6	2229.7	2188.1	2152.6	2084.7	2021.5
10°	2222.0	2240.5	2231.2	2220.4	2225.1	2226.6	2200.4	2171.1	2160.3	2092.5	1989.1
12.5°	2217.4	2186.5	2220.4	2222.0	2201.9	2200.4	2197.3	2189.6	2155.7	2094.0	1996.9
15°	2201.9	2189.6	2223.5	2225.1	2229.7	2225.1	2229.7	2223.5	2189.6	2154.1	2030.8
17.5°	2214.3	2200.4	2248.2	2271.3	2260.5	2282.1	2274.4	2246.7	2217.4	2175.7	2063.2
20°	2217.4	2237.4	2289.8	2299.1	2333.0	2297.5	2296.0	2266.7	2248.2	2203.5	2083.2
22.5°	2274.4	2283.7	2348.4	2368.5	2370.0	2365.4	2326.8	2292.9	2285.2	2229.7	2087.8
25°	2360.8	2393.1	2422.4	2434.8	2439.4	2417.8	2377.7	2334.5	2316.0	2280.6	2135.6
27.5°	2513.4	2493.4	2519.6	2538.1	2485.7	2493.4	2442.5	2405.5	2379.3	2348.4	2191.1
30°	2649.1	2630.6	2632.1	2629.1	2584.3	2542.7	2528.8	2464.1	2431.7	2444.0	2277.5
32.5°	2770.9	2730.8	2764.8	2749.3	2666.1	2653.7	2642.9	2561.2	2567.4	2624.4	2407.0
35°	2883.5	2869.6	2897.4	2869.6	2814.1	2811.0	2800.2	2729.3	2763.2	2844.9	2629.1
37.5°	2986.8	2991.4	3025.4	3011.5	3016.1	3019.2	3013.0	2937.5	3034.6	3218.1	2888.1
40°	3082.4	3076.2	3159.5	3202.7	3211.9	3245.9	3245.9	3227.4	3376.9	3583.5	3247.4
42.5°	3184.2	3199.6	3307.5	3380.0	3467.9	3497.2	3537.3	3546.5	3777.8	4013.8	3614.4
45°	3350.7	3324.5	3461.7	3632.9	3710.0	3813.3	3875.0	3927.4	4206.5	4530.3	3981.4
47.5°	3562.0	3509.5	3629.8	3878.1	4056.9	4141.7	4252.8	4322.2	4595.1	4929.7	4328.3
50°	3796.3	3742.4	3801.0	4143.3	4351.4	4505.6	4647.5	4735.4	5065.4	5376.9	4581.2
52.5°	4061.6	4012.2	4021.5	4419.3	4726.1	4838.7	5025.3	5156.4	5484.8	5646.7	4670.6
55°	4343.7	4331.4	4302.1	4689.1	5054.6	5307.5	5420.0	5577.3	5915.0	5793.2	4767.8
57.5°	4627.5	4588.9	4630.5	5046.9	5581.9	5733.1	5888.8	5982.9	6154.0	5921.2	4730.8
60°	4894.2	4897.3	4955.9	5435.5	6030.7	6245.0	6385.3	6328.3	6399.2	5976.7	4646.0
62.5°	5119.4	5113.2	5261.2	5871.8	6624.3	6769.3	6874.1	6619.7	6513.3	6030.7	4497.9
65°	5321.4	5390.7	5623.6	6391.5	7182.5	7349.0	7285.8	6895.7	6624.3	5871.8	4081.6
67.5°	5474.0	5577.3	5981.3	6880.3	7694.4	7811.6	7723.7	7105.4	6493.3	5248.9	3324.5
70°	5563.4	5668.3	6237.3	7287.4	8103.1	8187.9	7981.3	6943.5	5728.4	3801.0	2074.0
71°	5535.7	5663.7	6286.6	7330.5	8200.2	8263.4	7942.7	6644.4	5151.7	3182.6	1512.7
72.5°	5284.3	5404.6	6081.5	7299.7	8083.0	8044.5	7642.0	5925.8	4055.4	2029.2	781.8
75°	3882.7	4012.2	5219.6	6314.4	7214.9	6949.7	6184.9	4158.7	2115.6	621.4	228.2
77.5°	1933.6	1955.2	3239.7	4584.3	5292.1	5028.4	4144.8	2319.1	791.0	183.5	114.1
80°	891.3	897.4	1215.1	2374.6	3199.6	3011.5	2322.2	1144.1	357.7	97.1	89.4
82.5°	607.5	616.8	732.4	983.8	1389.3	1171.9	940.6	732.4	205.1	58.6	87.9
85°	111.0	101.8	410.2	521.2	536.6	363.9	325.4	633.8	77.1	33.9	77.1
87.5°	0.0	1.5	57.1	212.8	191.2	84.8	111.0	154.2	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



REPORT NUMBER: P484670

CATALOG NUMBER: IFLD-S-SA3B-727-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2	2046.2
2.5°	2043.1	2026.2	1969.1	1905.9	1848.8	1804.1	1747.1	1720.8	1679.2	1656.1	1654.5
5°	2013.8	1967.6	1868.9	1762.5	1643.7	1545.1	1435.6	1373.9	1303.0	1281.4	1276.8
7.5°	1964.5	1898.2	1753.2	1603.7	1421.7	1247.5	1113.3	969.9	882.0	845.0	831.1
10°	1933.6	1853.5	1656.1	1432.5	1178.1	932.9	744.8	592.1	511.9	473.4	464.1
12.5°	1933.6	1847.3	1577.4	1269.0	931.4	638.4	461.1	373.2	346.9	337.7	337.7
15°	1929.0	1834.9	1501.9	1101.0	689.3	428.7	343.9	325.4	322.3	320.7	319.2
17.5°	1952.1	1813.4	1424.8	920.6	487.3	337.7	316.1	313.0	309.9	309.9	306.9
20°	1969.1	1801.0	1332.3	729.4	363.9	313.0	303.8	299.1	297.6	296.1	299.1
22.5°	1955.2	1782.5	1218.2	545.9	317.6	297.6	291.4	286.8	283.7	283.7	285.3
25°	1981.4	1765.6	1104.1	411.7	297.6	283.7	277.6	274.5	272.9	271.4	268.3
27.5°	2016.9	1773.3	968.4	331.5	280.6	269.8	263.7	260.6	259.1	256.0	259.1
30°	2060.1	1771.7	818.8	289.9	265.2	254.4	248.3	246.7	243.6	242.1	243.6
32.5°	2134.1	1811.8	664.6	268.3	248.3	239.0	232.8	231.3	229.8	228.2	226.7
35°	2292.9	1861.2	519.6	251.3	232.8	222.0	217.4	214.3	212.8	211.3	209.7
37.5°	2488.7	1970.6	396.3	235.9	217.4	206.6	202.0	200.5	194.3	192.7	191.2
40°	2733.9	2087.8	305.3	219.0	203.5	192.7	188.1	183.5	175.8	172.7	169.6
42.5°	3039.2	2201.9	251.3	203.5	188.1	180.4	172.7	165.0	158.8	152.7	149.6
45°	3344.5	2334.5	220.5	189.7	175.8	166.5	160.4	149.6	138.8	129.5	128.0
47.5°	3599.0	2382.3	202.0	174.2	163.4	155.7	146.5	132.6	117.2	107.9	106.4
50°	3788.6	2354.6	183.5	158.8	149.6	141.9	129.5	112.6	97.1	87.9	84.8
52.5°	3825.6	2232.8	166.5	146.5	135.7	126.4	112.6	94.1	77.1	67.8	66.3
55°	3799.4	2030.8	152.7	135.7	123.4	109.5	94.1	75.6	60.1	50.9	49.3
57.5°	3745.5	1791.8	137.2	121.8	107.9	94.1	77.1	61.7	44.7	35.5	35.5
60°	3562.0	1466.4	121.8	106.4	92.5	80.2	63.2	44.7	30.8	23.1	21.6
62.5°	3306.0	1127.2	106.4	91.0	80.2	66.3	49.3	32.4	18.5	12.3	12.3
65°	2838.8	789.5	89.4	75.6	66.3	54.0	37.0	20.0	10.8	4.6	4.6
67.5°	2157.2	488.8	74.0	63.2	57.1	43.2	26.2	12.3	4.6	1.5	0.0
70°	1238.2	254.4	58.6	50.9	44.7	32.4	18.5	6.2	3.1	0.0	0.0
71°	865.0	188.1	52.4	44.7	40.1	29.3	15.4	4.6	1.5	0.0	0.0
72.5°	433.3	124.9	44.7	37.0	32.4	23.1	12.3	4.6	1.5	0.0	0.0
75°	154.2	80.2	30.8	24.7	23.1	17.0	7.7	3.1	1.5	0.0	0.0
77.5°	106.4	64.8	21.6	15.4	15.4	10.8	4.6	1.5	1.5	0.0	0.0
80°	97.1	35.5	13.9	9.3	7.7	6.2	3.1	1.5	0.0	0.0	0.0
82.5°	97.1	26.2	7.7	6.2	4.6	3.1	1.5	0.0	0.0	0.0	0.0
85°	67.8	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)