

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: P483787

Luminaire Tested: **IFLD-S-SA6A-830-U-T4W-HSS**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P483787  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-830-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W  
distribution lens with House Side Shield  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

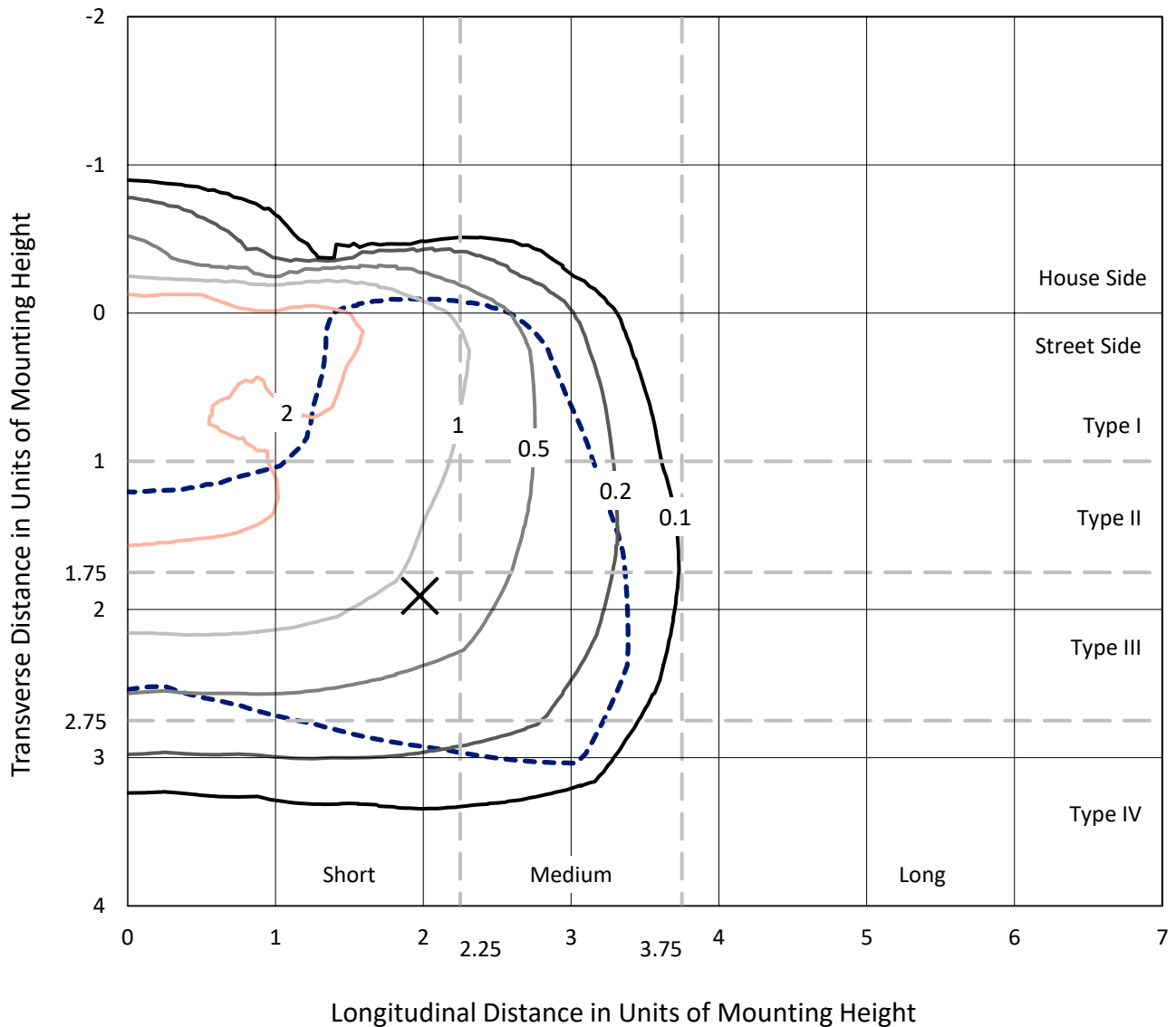
Lumens per Lamp: N/A  
Luminaire Lumens: 15823.8 lumens  
Efficiency: N/A  
Efficacy: 83.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 189.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

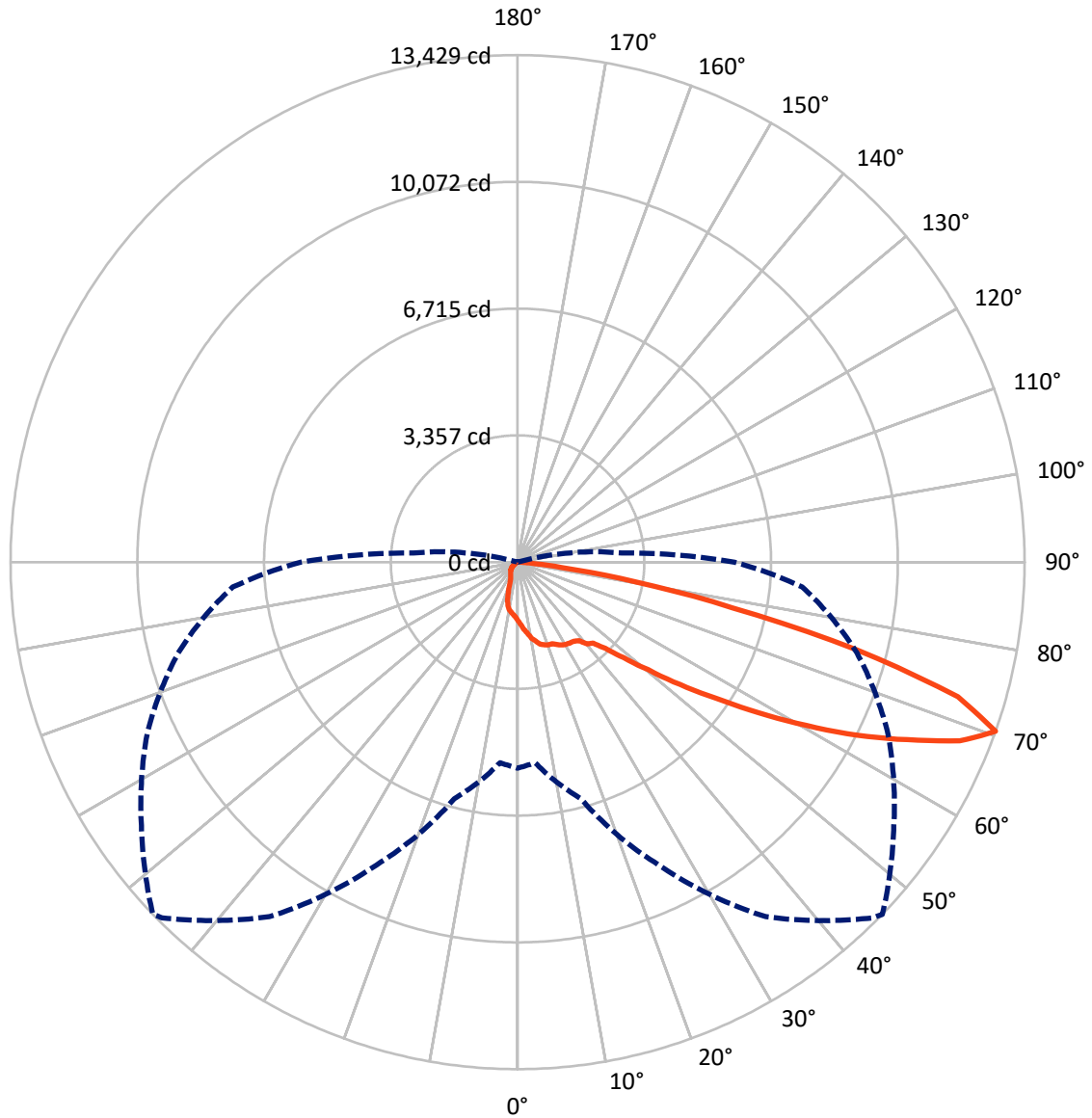
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1574.5	0.0	1574.5
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	14249.3	0.0	14249.3
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	15823.8	0.0	15823.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.9	1.0
10°-20°	467.8	3.0
20°-30°	749.2	4.7
30°-40°	1069.5	6.8
40°-50°	1846.7	11.7
50°-60°	3535.6	22.3
60°-70°	5235.7	33.1
70°-80°	2593.2	16.4
80°-90°	171.4	1.1
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°	15823.8	100.0
0°-180°	15823.8	100.0

**Coefficient of Utilization**



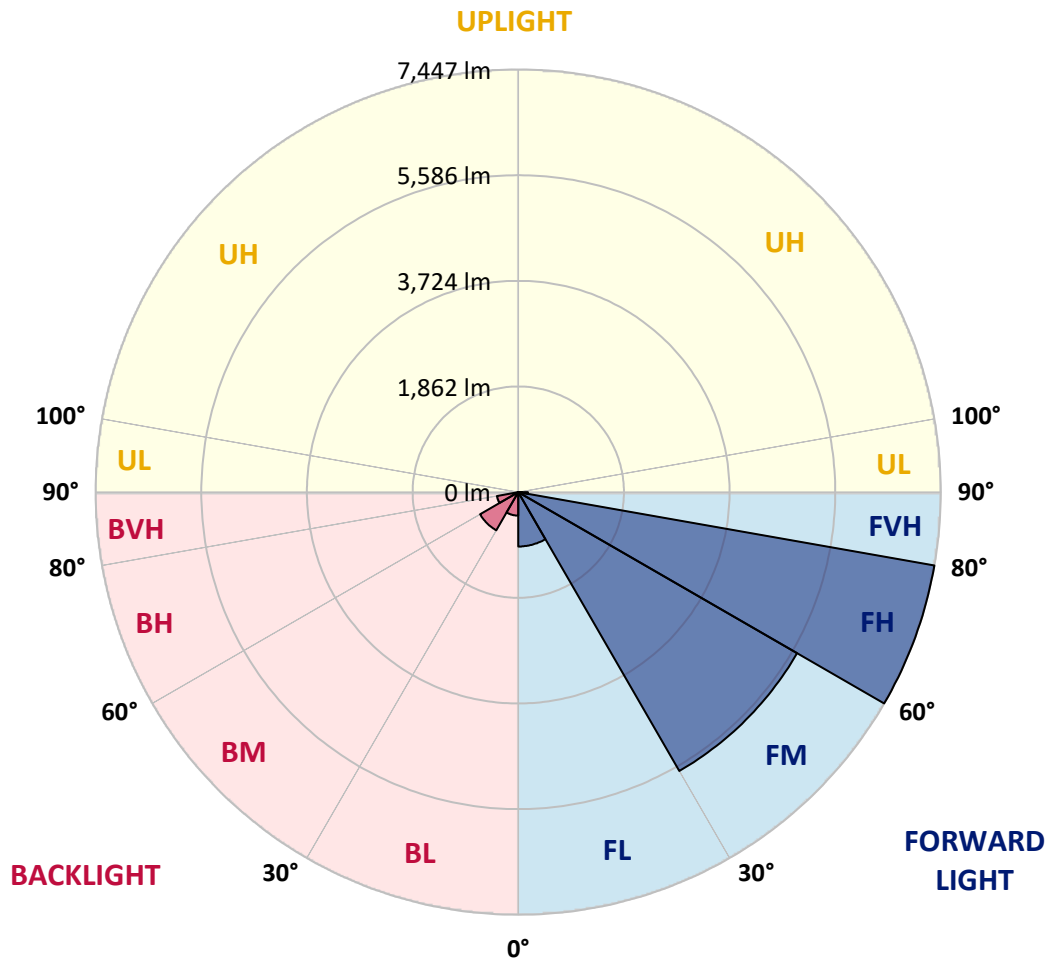
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.2	6.1			
FM (30°-60°)	5674.4	35.9			
FH (60°-80°)	7447.5	47.1			G3/7500
FVH (80°-90°)	169.2	1.1			G2/225
BL (0°-30°)	413.7	2.6	B1/500		
BM (30°-60°)	777.3	4.9	B1/1000		
BH (60°-80°)	381.3	2.4	B1/500		G1/500
BVH (80°-90°)	2.2	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°	45°	46°	55°	65°	75°	85°
0°	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4
2.5°	1733.3	1722.0	1703.7	1696.9	1678.7	1669.6	1655.9	1649.1	1624.0	1599.0	1583.0
5°	1945.2	1917.8	1926.9	1899.6	1840.4	1792.6	1790.3	1737.9	1681.0	1635.4	1573.9
7.5°	2159.3	2136.5	2102.3	2063.6	1997.6	1926.9	1906.4	1856.3	1776.6	1696.9	1614.9
10°	2321.0	2305.0	2275.4	2220.8	2129.7	2049.9	2052.2	1967.9	1883.7	1792.6	1681.0
12.5°	2421.2	2428.0	2384.8	2330.1	2250.4	2150.2	2147.9	2090.9	1995.3	1899.6	1767.5
15°	2521.4	2546.5	2480.4	2416.7	2314.2	2241.3	2254.9	2186.6	2093.2	1983.9	1838.1
17.5°	2537.4	2544.2	2530.5	2437.2	2362.0	2300.5	2302.8	2257.2	2186.6	2068.2	1942.9
20°	2510.0	2505.5	2489.5	2421.2	2371.1	2334.7	2336.9	2325.5	2286.8	2191.2	2020.3
22.5°	2430.3	2430.3	2409.8	2364.3	2341.5	2375.7	2348.3	2391.6	2350.6	2293.7	2152.4
25°	2366.5	2391.6	2380.2	2350.6	2359.7	2405.3	2418.9	2459.9	2453.1	2382.5	2243.5
27.5°	2434.9	2405.3	2412.1	2377.9	2412.1	2480.4	2487.3	2516.9	2514.6	2457.7	2325.5
30°	2480.4	2507.8	2455.4	2380.2	2416.7	2532.8	2528.3	2567.0	2585.2	2516.9	2403.0
32.5°	2626.2	2603.4	2560.2	2459.9	2464.5	2530.5	2551.0	2601.2	2612.5	2571.5	2478.2
35°	2924.6	2890.4	2701.4	2551.0	2528.3	2560.2	2573.8	2671.8	2692.3	2646.7	2557.9
37.5°	3384.7	3307.2	3079.5	2746.9	2644.4	2637.6	2637.6	2767.4	2844.9	2740.1	2676.3
40°	4042.9	3933.6	3687.6	3109.1	2797.0	2824.4	2851.7	2922.3	2913.2	2844.9	2831.2
42.5°	4881.1	4796.9	4530.4	3717.2	3088.6	2951.9	2929.1	3024.8	3168.3	3141.0	3131.9
45°	5580.4	5585.0	5414.1	4550.9	3592.0	3245.7	3261.7	3334.6	3576.0	3555.5	3553.2
47.5°	6090.6	6026.8	6001.8	5354.9	4325.4	3803.8	3781.0	3831.1	4145.4	4275.3	4334.5
50°	6555.3	6512.0	6452.8	6136.2	5206.9	4503.0	4480.3	4484.8	4965.4	5147.6	5293.4
52.5°	7131.5	7186.2	6990.3	6796.7	6348.0	5411.9	5386.8	5298.0	5894.7	6145.3	6318.4
55°	7842.2	7739.7	7518.7	7619.0	7439.0	6393.5	6348.0	6243.2	6953.9	7058.6	7240.9
57.5°	7999.3	7921.9	8149.7	8505.0	8678.1	7546.1	7527.9	7338.8	7844.5	7748.8	8263.6
60°	8391.1	8411.6	8728.2	9434.3	9735.0	8876.3	8787.4	8454.9	8707.7	8725.9	9274.9
62.5°	8794.3	8746.4	9454.8	10133.6	10595.9	10135.8	10106.2	9445.7	9732.7	9500.4	10226.9
65°	8498.2	8571.0	9584.6	10721.2	11712.0	11368.1	11343.0	10400.0	10557.2	10267.9	10614.2
67.5°	7445.9	7297.8	8716.8	10452.4	12286.0	12659.5	12632.2	11441.0	11021.9	10263.4	9810.1
70°	5457.4	5329.9	6486.9	8851.2	11463.7	13320.1	13429.4	12165.3	10832.8	9306.7	7568.8
72.5°	2674.0	2676.3	3635.2	6001.8	9069.9	12140.2	12194.9	11154.0	9306.7	6860.5	4286.7
75°	790.4	799.5	1346.1	2942.8	5862.8	9220.2	9281.7	8466.3	6450.5	3544.1	1462.3
77.5°	289.3	289.3	446.4	1104.7	2924.6	5819.6	5815.0	5197.7	3266.2	1200.4	341.7
80°	150.3	157.2	232.3	451.0	1266.4	3031.6	3145.5	2544.2	1241.4	505.7	100.2
82.5°	61.5	68.3	127.6	232.3	608.2	1063.7	1163.9	997.6	539.8	353.0	45.6
85°	18.2	20.5	61.5	129.8	239.2	266.5	296.1	334.8	339.4	273.3	20.5
87.5°	2.3	2.3	25.1	43.3	52.4	56.9	66.1	66.1	173.1	191.3	11.4
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°	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4	1553.4
2.5°	1564.8	1553.4	1535.2	1494.2	1485.1	1455.5	1453.2	1425.9	1435.0	1416.7	1409.9
5°	1553.4	1528.3	1478.2	1446.3	1414.5	1394.0	1380.3	1368.9	1366.6	1357.5	1353.0
7.5°	1573.9	1539.7	1462.3	1412.2	1357.5	1339.3	1309.7	1307.4	1291.5	1275.5	1275.5
10°	1642.2	1580.7	1496.5	1412.2	1341.6	1282.4	1214.0	1163.9	1145.7	1104.7	1109.2
12.5°	1696.9	1642.2	1519.2	1432.7	1325.6	1191.2	1040.9	924.8	870.1	817.7	838.2
15°	1774.3	1694.6	1562.5	1437.2	1264.1	1031.8	785.8	656.0	605.9	594.5	592.2
17.5°	1858.6	1774.3	1617.2	1425.9	1138.9	797.2	578.5	503.4	512.5	526.2	523.9
20°	1952.0	1849.5	1658.2	1387.1	940.7	578.5	473.8	471.5	485.2	505.7	510.2
22.5°	2049.9	1961.1	1708.3	1271.0	701.5	464.7	455.5	455.5	464.7	489.7	485.2
25°	2159.3	2040.8	1733.3	1091.0	503.4	428.2	432.8	441.9	446.4	466.9	469.2
27.5°	2243.5	2129.7	1740.2	874.6	410.0	396.3	407.7	419.1	425.9	441.9	448.7
30°	2321.0	2241.3	1703.7	651.4	375.8	369.0	373.5	389.5	403.2	416.8	416.8
32.5°	2418.9	2305.0	1619.5	462.4	355.3	343.9	341.7	348.5	364.4	380.4	380.4
35°	2519.2	2412.1	1485.1	371.3	337.1	321.2	312.0	305.2	312.0	323.4	332.5
37.5°	2664.9	2573.8	1316.5	341.7	323.4	300.7	282.4	266.5	255.1	252.8	259.7
40°	2872.2	2756.0	1100.1	321.2	307.5	280.2	252.8	225.5	200.4	184.5	186.8
42.5°	3186.5	3024.8	865.5	309.8	296.1	257.4	218.7	179.9	148.1	132.1	132.1
45°	3635.2	3380.1	635.5	298.4	282.4	230.0	179.9	134.4	102.5	93.4	95.7
47.5°	4311.7	3808.3	455.5	280.2	264.2	200.4	141.2	95.7	75.2	70.6	72.9
50°	5195.5	4316.3	355.3	259.7	241.4	168.6	104.8	70.6	59.2	56.9	59.2
52.5°	6122.5	4828.8	312.0	241.4	207.3	134.4	77.4	56.9	50.1	47.8	50.1
55°	6915.1	5159.0	271.0	214.1	166.3	100.2	61.5	50.1	43.3	36.4	36.4
57.5°	7716.9	5325.3	214.1	177.7	123.0	75.2	52.4	43.3	36.4	29.6	27.3
60°	8368.3	5443.7	152.6	132.1	86.6	59.2	45.6	38.7	29.6	22.8	20.5
62.5°	8796.5	5104.4	111.6	100.2	63.8	50.1	38.7	31.9	22.8	15.9	15.9
65°	8584.7	4635.2	86.6	70.6	47.8	38.7	31.9	22.8	15.9	9.1	6.8
67.5°	7703.2	3776.5	70.6	52.4	36.4	29.6	25.1	18.2	9.1	2.3	2.3
70°	5746.7	2767.4	56.9	38.7	29.6	22.8	18.2	11.4	4.6	2.3	0.0
72.5°	3143.2	1514.7	45.6	31.9	22.8	18.2	13.7	9.1	4.6	0.0	0.0
75°	1038.6	403.2	34.2	22.8	13.7	11.4	9.1	6.8	2.3	0.0	0.0
77.5°	250.5	104.8	27.3	20.5	11.4	6.8	4.6	2.3	2.3	0.0	0.0
80°	77.4	43.3	20.5	13.7	9.1	6.8	2.3	0.0	0.0	0.0	0.0
82.5°	31.9	20.5	9.1	9.1	6.8	2.3	0.0	0.0	0.0	0.0	0.0
85°	15.9	11.4	6.8	4.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	11.4	4.6	2.3	2.3	0.0	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)