

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: P483696

Luminaire Tested: **IFLD-S-SA3C-760-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483696
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-760-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (48) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

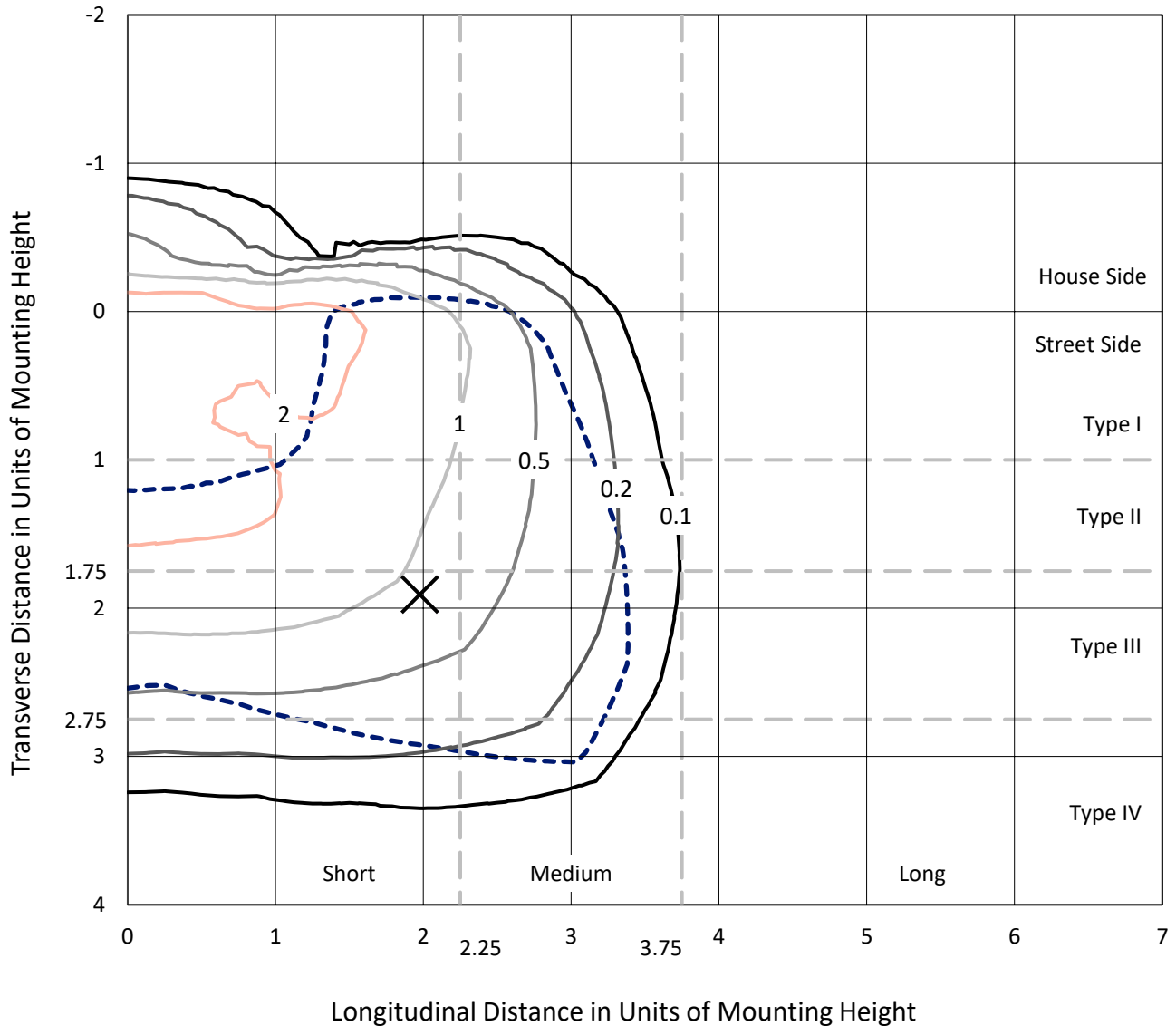
Lumens per Lamp: N/A
Luminaire Lumens: 15986.7 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 160.8
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: P483696
 CATALOG NUMBER: IFLD-S-SA3C-760-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

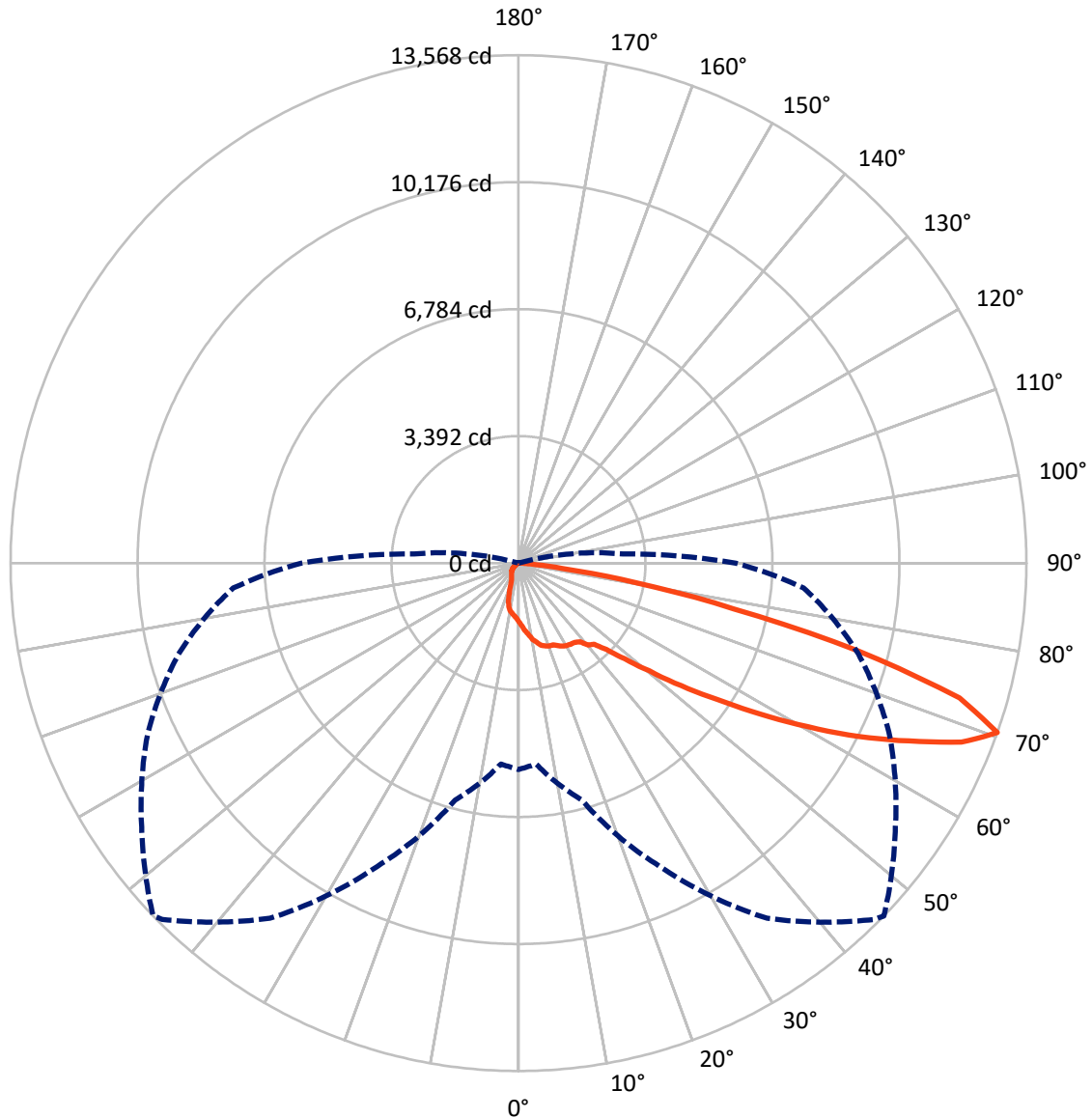
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P483696
CATALOG NUMBER: IFLD-S-SA3C-760-U-T4W-HSS

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
House Side	Lumens	1590.7	0.0	1590.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	14396.0	0.0	14396.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	15986.7	0.0	15986.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	1.0
10°-20°	472.6	3.0
20°-30°	757.0	4.7
30°-40°	1080.5	6.8
40°-50°	1865.7	11.7
50°-60°	3572.0	22.3
60°-70°	5289.6	33.1
70°-80°	2619.9	16.4
80°-90°	173.1	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°	15986.7	100.0
0°-180°	15986.7	100.0

Coefficient of Utilization



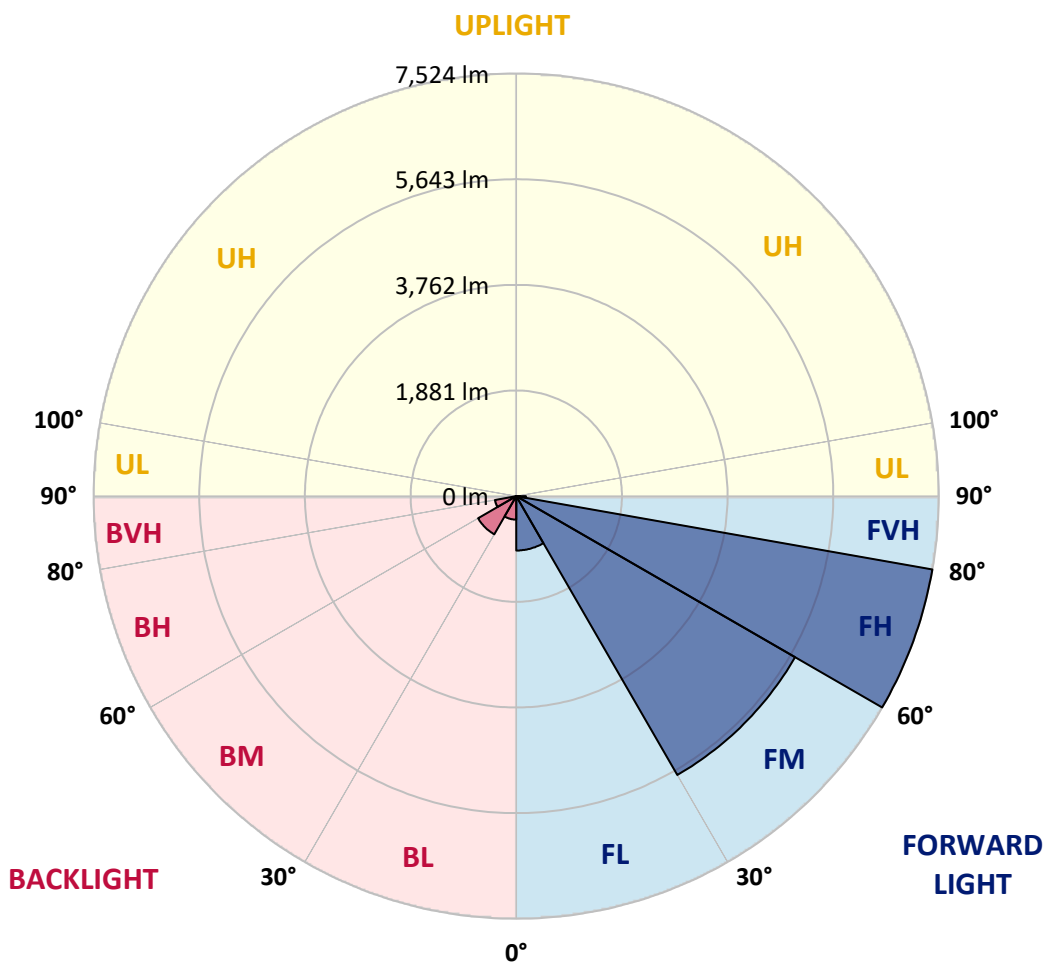
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 CATALOG NUMBER: IFLD-S-SA3C-760-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	968.1	6.1			
FM (30°-60°)	5732.8	35.9			
FH (60°-80°)	7524.2	47.1			G4/12000
FVH (80°-90°)	170.9	1.1			G2/225
BL (0°-30°)	417.9	2.6	B1/500		
BM (30°-60°)	785.3	4.9	B1/1000		
BH (60°-80°)	385.3	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-G4

Type IV Short





REPORT NUMBER: P483696

CATALOG NUMBER: IFLD-S-SA3C-760-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4
2.5°	1751.2	1739.7	1721.3	1714.4	1696.0	1686.8	1673.0	1666.0	1640.7	1615.4	1599.3
5°	1965.2	1937.6	1946.8	1919.2	1859.3	1811.0	1808.7	1755.8	1698.3	1652.2	1590.1
7.5°	2181.5	2158.5	2124.0	2084.9	2018.1	1946.8	1926.1	1875.5	1794.9	1714.4	1631.5
10°	2344.9	2328.8	2298.9	2243.6	2151.6	2071.1	2073.4	1988.2	1903.1	1811.0	1698.3
12.5°	2446.1	2453.0	2409.3	2354.1	2273.6	2172.3	2170.0	2112.5	2015.8	1919.2	1785.7
15°	2547.4	2572.7	2506.0	2441.5	2338.0	2264.4	2278.2	2209.1	2114.8	2004.3	1857.0
17.5°	2563.5	2570.4	2556.6	2462.3	2386.3	2324.2	2326.5	2280.5	2209.1	2089.5	1962.9
20°	2535.9	2531.3	2515.2	2446.1	2395.5	2358.7	2361.0	2349.5	2310.4	2213.7	2041.1
22.5°	2455.3	2455.3	2434.6	2388.6	2365.6	2400.1	2372.5	2416.2	2374.8	2317.3	2174.6
25°	2390.9	2416.2	2404.7	2374.8	2384.0	2430.0	2443.8	2485.3	2478.4	2407.0	2266.7
27.5°	2460.0	2430.0	2436.9	2402.4	2436.9	2506.0	2512.9	2542.8	2540.5	2483.0	2349.5
30°	2506.0	2533.6	2480.7	2404.7	2441.5	2558.9	2554.3	2593.4	2611.8	2542.8	2427.7
32.5°	2653.2	2630.2	2586.5	2485.3	2489.9	2556.6	2577.3	2627.9	2639.4	2598.0	2503.7
35°	2954.7	2920.2	2729.2	2577.3	2554.3	2586.5	2600.3	2699.3	2720.0	2674.0	2584.2
37.5°	3419.5	3341.3	3111.2	2775.2	2671.7	2664.8	2664.8	2795.9	2874.2	2768.3	2703.9
40°	4084.6	3974.1	3725.6	3141.1	2825.8	2853.5	2881.1	2952.4	2943.2	2874.2	2860.4
42.5°	4931.4	4846.3	4577.0	3755.5	3120.4	2982.3	2959.3	3056.0	3200.9	3173.3	3164.1
45°	5637.9	5642.5	5469.9	4597.7	3628.9	3279.2	3295.3	3368.9	3612.8	3592.1	3589.8
47.5°	6153.3	6088.9	6063.6	5410.1	4369.9	3843.0	3819.9	3870.6	4188.1	4319.3	4379.1
50°	6622.8	6579.0	6519.2	6199.4	5260.5	4549.4	4526.4	4531.0	5016.6	5200.6	5347.9
52.5°	7205.0	7260.2	7062.3	6866.7	6413.4	5467.6	5442.3	5352.5	5955.4	6208.6	6383.4
55°	7922.9	7819.4	7596.2	7697.4	7515.6	6459.4	6413.4	6307.5	7025.5	7131.3	7315.4
57.5°	8081.7	8003.5	8233.6	8592.6	8767.5	7623.8	7605.4	7414.4	7925.2	7828.6	8348.6
60°	8477.5	8498.2	8818.1	9531.4	9835.2	8967.7	8877.9	8541.9	8797.4	8815.8	9370.4
62.5°	8884.8	8836.5	9552.2	10237.9	10705.0	10240.2	10210.3	9543.0	9832.9	9598.2	10332.3
65°	8585.7	8659.3	9683.3	10831.6	11832.6	11485.1	11459.8	10507.1	10665.9	10373.7	10723.5
67.5°	7522.5	7372.9	8806.6	10560.1	12412.5	12789.9	12762.3	11558.8	11135.4	10369.1	9911.1
70°	5513.6	5384.7	6553.7	8942.3	11581.8	13457.2	13567.7	12290.5	10944.4	9402.6	7646.8
72.5°	2701.6	2703.9	3672.7	6063.6	9163.3	12265.2	12320.5	11268.8	9402.6	6931.1	4330.8
75°	798.5	807.7	1360.0	2973.1	5923.2	9315.1	9377.3	8553.4	6516.9	3580.6	1477.4
77.5°	292.2	292.2	451.0	1116.1	2954.7	5879.5	5874.9	5251.3	3299.9	1212.7	345.2
80°	151.9	158.8	234.7	455.6	1279.5	3062.9	3177.9	2570.4	1254.1	510.9	101.3
82.5°	62.1	69.0	128.9	234.7	614.4	1074.6	1175.9	1007.9	545.4	356.7	46.0
85°	18.4	20.7	62.1	131.2	241.6	269.2	299.2	338.3	342.9	276.1	20.7
87.5°	2.3	2.3	25.3	43.7	52.9	57.5	66.7	66.7	174.9	193.3	11.5
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: P483696

CATALOG NUMBER: IFLD-S-SA3C-760-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4	1569.4
2.5°	1580.9	1569.4	1551.0	1509.6	1500.4	1470.4	1468.1	1440.5	1449.7	1431.3	1424.4
5°	1569.4	1544.1	1493.5	1461.2	1429.0	1408.3	1394.5	1383.0	1380.7	1371.5	1366.9
7.5°	1590.1	1555.6	1477.4	1426.7	1371.5	1353.1	1323.2	1320.9	1304.8	1288.7	1288.7
10°	1659.1	1597.0	1511.9	1426.7	1355.4	1295.6	1226.5	1175.9	1157.5	1116.1	1120.7
12.5°	1714.4	1659.1	1534.9	1447.4	1339.3	1203.5	1051.6	934.3	879.0	826.1	846.8
15°	1792.6	1712.1	1578.6	1452.0	1277.1	1042.4	793.9	662.7	612.1	600.6	598.3
17.5°	1877.8	1792.6	1633.8	1440.5	1150.6	805.4	584.5	508.6	517.8	531.6	529.3
20°	1972.1	1868.6	1675.3	1401.4	950.4	584.5	478.6	476.3	490.1	510.9	515.5
22.5°	2071.1	1981.3	1725.9	1284.1	708.8	469.4	460.2	460.2	469.4	494.8	490.1
25°	2181.5	2061.8	1751.2	1102.3	508.6	432.6	437.2	446.4	451.0	471.7	474.0
27.5°	2266.7	2151.6	1758.1	883.6	414.2	400.4	411.9	423.4	430.3	446.4	453.3
30°	2344.9	2264.4	1721.3	658.1	379.7	372.8	377.4	393.5	407.3	421.1	421.1
32.5°	2443.8	2328.8	1636.1	467.1	359.0	347.5	345.2	352.1	368.2	384.3	384.3
35°	2545.1	2436.9	1500.4	375.1	340.6	324.5	315.3	308.4	315.3	326.8	336.0
37.5°	2692.4	2600.3	1330.1	345.2	326.8	303.8	285.3	269.2	257.7	255.4	262.3
40°	2901.8	2784.4	1111.5	324.5	310.7	283.0	255.4	227.8	202.5	186.4	188.7
42.5°	3219.3	3056.0	874.4	313.0	299.2	260.0	220.9	181.8	149.6	133.5	133.5
45°	3672.7	3414.9	642.0	301.5	285.3	232.4	181.8	135.8	103.6	94.3	96.6
47.5°	4356.1	3847.6	460.2	283.0	266.9	202.5	142.7	96.6	75.9	71.3	73.6
50°	5249.0	4360.7	359.0	262.3	243.9	170.3	105.9	71.3	59.8	57.5	59.8
52.5°	6185.5	4878.5	315.3	243.9	209.4	135.8	78.2	57.5	50.6	48.3	50.6
55°	6986.4	5212.2	273.8	216.3	168.0	101.3	62.1	50.6	43.7	36.8	36.8
57.5°	7796.4	5380.1	216.3	179.5	124.3	75.9	52.9	43.7	36.8	29.9	27.6
60°	8454.5	5499.8	154.2	133.5	87.4	59.8	46.0	39.1	29.9	23.0	20.7
62.5°	8887.1	5156.9	112.8	101.3	64.4	50.6	39.1	32.2	23.0	16.1	16.1
65°	8673.1	4682.9	87.4	71.3	48.3	39.1	32.2	23.0	16.1	9.2	6.9
67.5°	7782.6	3815.3	71.3	52.9	36.8	29.9	25.3	18.4	9.2	2.3	2.3
70°	5805.9	2795.9	57.5	39.1	29.9	23.0	18.4	11.5	4.6	2.3	0.0
72.5°	3175.6	1530.3	46.0	32.2	23.0	18.4	13.8	9.2	4.6	0.0	0.0
75°	1049.3	407.3	34.5	23.0	13.8	11.5	9.2	6.9	2.3	0.0	0.0
77.5°	253.1	105.9	27.6	20.7	11.5	6.9	4.6	2.3	2.3	0.0	0.0
80°	78.2	43.7	20.7	13.8	9.2	6.9	2.3	0.0	0.0	0.0	0.0
82.5°	32.2	20.7	9.2	9.2	6.9	2.3	0.0	0.0	0.0	0.0	0.0
85°	16.1	11.5	6.9	4.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	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)