

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: P484042

Luminaire Tested: **IFLD-S-SA2C-750-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484042
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-750-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

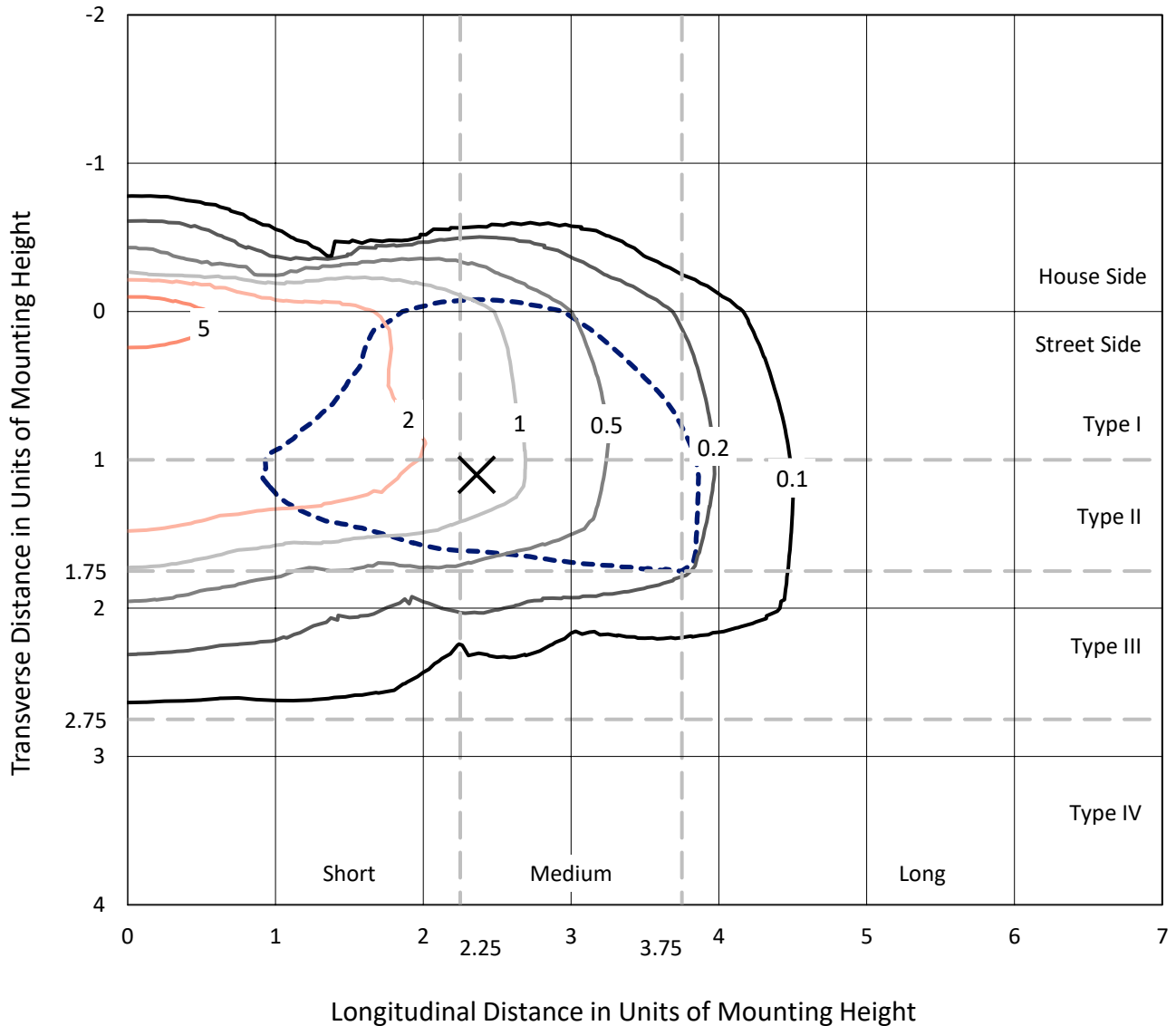
Lumens per Lamp: N/A
Luminaire Lumens: 11966.3 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

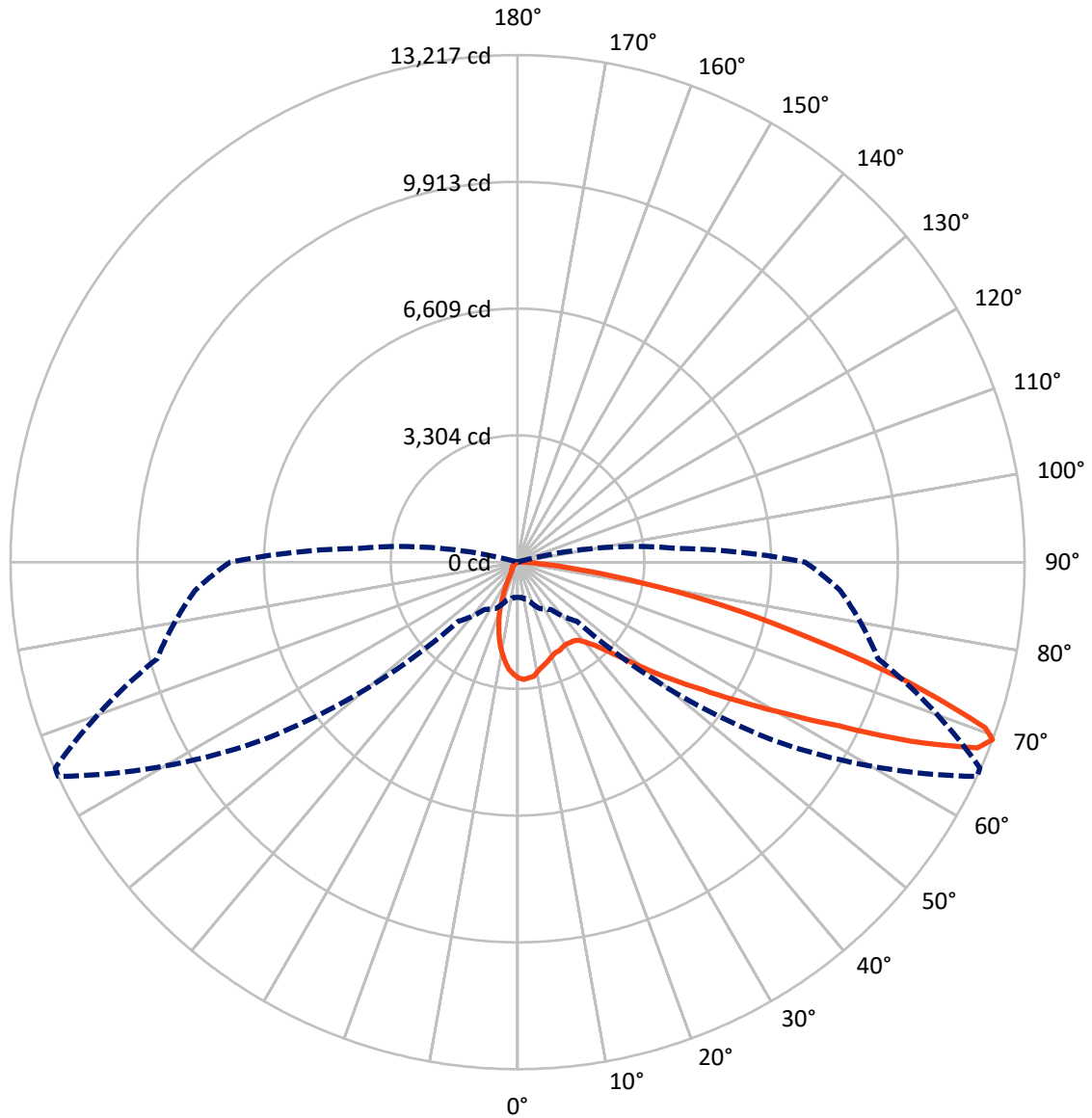
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1451.6	0.0	1451.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	10514.7	0.0	10514.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	11966.3	0.0	11966.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.9	2.1
10°-20°	540.2	4.5
20°-30°	752.1	6.3
30°-40°	1065.7	8.9
40°-50°	1679.6	14.0
50°-60°	2725.3	22.8
60°-70°	3043.7	25.4
70°-80°	1713.9	14.3
80°-90°	198.9	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°	11966.3	100.0
0°-180°	11966.3	100.0



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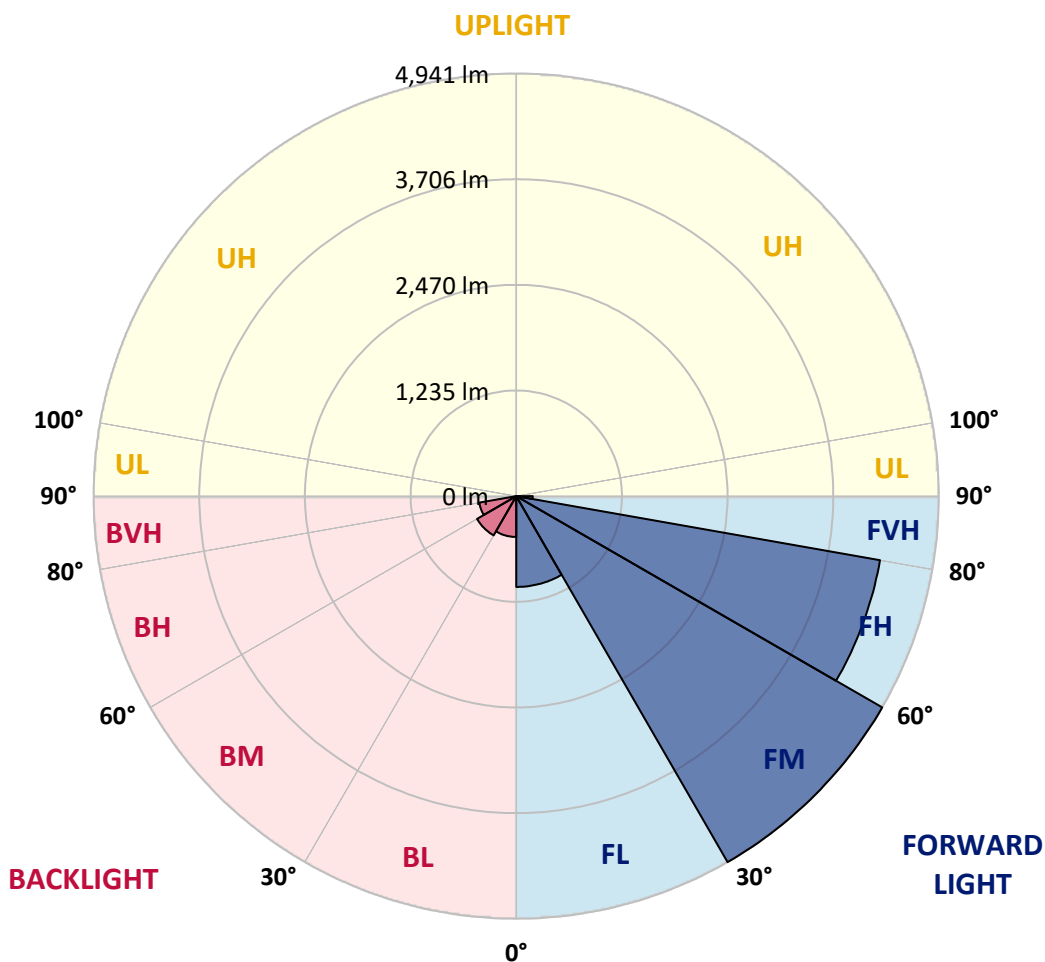
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1061.9	8.9			
FM (30°-60°)	4941.0	41.3			
FH (60°-80°)	4318.4	36.1			G2/5000
FVH (80°-90°)	193.4	1.6			G2/225
BL (0°-30°)	477.2	4.0	B1/500		
BM (30°-60°)	529.7	4.4	B1/1000		
BH (60°-80°)	439.2	3.7	B1/500		G1/500
BVH (80°-90°)	5.5	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-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0
2.5°	2905.6	2928.2	2934.6	2957.2	2968.5	3017.0	3044.4	3060.6	3052.5	3070.2	3071.9
5°	2699.0	2686.1	2720.0	2744.2	2795.8	2879.8	2965.3	3031.5	3062.2	3091.2	3086.4
7.5°	2477.8	2471.4	2505.3	2560.1	2607.0	2708.7	2845.9	3008.9	3002.4	3073.5	3094.5
10°	2326.1	2332.5	2343.8	2398.7	2468.1	2571.4	2742.6	2894.3	2928.2	3078.3	3120.3
12.5°	2187.3	2198.6	2219.5	2276.0	2356.8	2463.3	2629.6	2807.1	2858.8	3050.9	3134.8
15°	2142.1	2116.2	2158.2	2200.2	2284.1	2379.4	2519.8	2740.9	2763.5	3018.6	3159.0
17.5°	2104.9	2088.8	2108.2	2142.1	2230.8	2308.3	2440.7	2669.9	2711.9	3005.7	3155.8
20°	2116.2	2101.7	2109.8	2135.6	2176.0	2248.6	2371.3	2602.1	2647.3	2945.9	3151.0
22.5°	2148.5	2159.8	2145.3	2151.8	2164.7	2201.8	2334.2	2553.7	2592.4	2934.6	3178.4
25°	2293.8	2274.4	2255.1	2247.0	2171.1	2187.3	2322.9	2550.5	2577.9	2894.3	3155.8
27.5°	2445.5	2429.4	2421.3	2374.5	2271.2	2222.8	2324.5	2505.3	2542.4	2878.2	3128.4
30°	2629.6	2650.5	2618.3	2561.8	2418.1	2298.6	2342.2	2482.7	2534.3	2816.8	3110.6
32.5°	2823.3	2834.6	2850.7	2808.7	2623.1	2413.3	2395.5	2503.7	2506.9	2816.8	3070.2
35°	3042.8	3026.7	3068.6	3071.9	2908.8	2616.6	2497.2	2518.2	2552.1	2803.9	3055.7
37.5°	3231.7	3259.1	3307.5	3385.0	3217.1	2904.0	2655.4	2586.0	2600.5	2863.6	3067.0
40°	3438.3	3465.7	3575.5	3653.0	3557.7	3226.8	2895.9	2744.2	2755.5	2952.4	3125.1
42.5°	3665.9	3719.2	3849.9	3985.5	3959.7	3636.8	3205.8	2976.6	2971.8	3173.6	3244.6
45°	3974.2	4045.2	4187.3	4343.9	4366.5	4106.6	3619.1	3323.7	3339.8	3462.5	3491.6
47.5°	4403.6	4400.4	4539.2	4713.5	4844.3	4594.1	4113.0	3790.2	3788.6	3919.3	3858.0
50°	4818.4	4820.1	4857.2	5059.0	5397.9	5270.4	4724.8	4410.0	4392.3	4456.9	4358.4
52.5°	5010.5	4987.9	4960.5	5204.2	5824.1	6122.7	5499.6	5112.2	5097.7	5059.0	5033.1
55°	4808.8	4816.8	4815.2	5068.6	6048.5	7021.8	6494.0	5885.4	5861.2	5740.2	5775.7
57.5°	4161.5	4135.6	4192.1	4587.6	5791.8	7635.3	7916.1	6860.4	6797.5	6395.5	6314.8
60°	3097.7	3105.8	3152.6	3619.1	5154.2	7764.4	9276.9	8004.9	7733.7	6857.2	6745.8
62.5°	2163.1	2146.9	2164.7	2426.2	3685.3	7247.8	10197.0	9396.4	9134.9	7381.8	7317.3
65°	1548.0	1527.1	1598.1	1757.9	2213.1	5541.6	10327.8	11249.5	11015.4	8219.6	8064.6
67.5°	1113.8	1110.6	1192.9	1483.5	1572.2	3191.3	9359.2	12928.3	12786.2	9214.0	8519.8
69°	921.7	923.3	1002.4	1328.5	1501.2	2179.2	8053.3	13217.2	13191.4	9727.3	8434.3
70°	803.9	810.3	902.3	1236.5	1472.2	1791.8	6942.8	12933.1	12907.3	9827.4	8151.8
72.5°	495.6	500.4	621.5	991.1	1399.5	1462.5	4151.8	10581.2	10670.0	9368.9	7023.5
75°	237.3	238.9	326.1	716.7	1349.5	1386.6	2224.4	7808.0	7995.2	7564.2	5488.3
77.5°	125.9	125.9	156.6	381.0	1092.8	1304.3	1320.4	5507.7	5662.7	4782.9	3120.3
80°	63.0	64.6	95.2	198.5	678.0	1278.5	1031.5	3284.9	3368.9	1951.6	971.8
82.5°	24.2	25.8	45.2	119.5	351.9	1079.9	905.6	1615.8	1594.8	456.8	237.3
85°	3.2	3.2	16.1	71.0	150.1	476.2	747.4	674.7	652.1	100.1	114.6
87.5°	0.0	0.0	3.2	21.0	45.2	138.8	288.9	185.6	206.6	27.4	56.5
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°	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0	3017.0
2.5°	3063.8	3029.9	2978.2	2928.2	2874.9	2810.4	2739.3	2713.5	2668.3	2665.1	2690.9
5°	3060.6	3005.7	2915.3	2808.7	2657.0	2542.4	2418.1	2327.7	2258.3	2213.1	2224.4
7.5°	3076.7	3010.5	2853.9	2624.7	2429.4	2201.8	2009.7	1877.3	1756.3	1696.5	1690.1
10°	3050.9	2962.1	2732.9	2411.6	2124.3	1806.3	1525.4	1347.9	1167.1	1100.9	1104.1
12.5°	3065.4	2941.1	2602.1	2192.1	1796.6	1383.4	1047.6	805.5	636.0	581.1	574.7
15°	3075.1	2895.9	2476.2	1929.0	1433.4	942.7	606.9	456.8	403.6	393.9	392.3
17.5°	3038.0	2841.0	2298.6	1669.1	1062.2	573.0	403.6	372.9	363.2	356.7	353.5
20°	3036.3	2808.7	2145.3	1402.8	708.6	390.6	348.7	337.4	322.8	318.0	318.0
22.5°	3008.9	2740.9	1961.3	1110.6	452.0	335.8	313.2	295.4	279.3	272.8	271.2
25°	3000.8	2661.8	1788.6	834.6	343.8	300.2	277.6	251.8	232.4	222.8	217.9
27.5°	2978.2	2594.0	1614.2	587.6	300.2	268.0	238.9	211.5	188.9	174.3	172.7
30°	2897.5	2523.0	1420.5	406.8	272.8	237.3	205.0	172.7	150.1	140.4	137.2
32.5°	2863.6	2456.8	1209.0	313.2	248.6	209.8	172.7	143.7	125.9	116.2	114.6
35°	2823.3	2360.0	1004.0	272.8	226.0	182.4	145.3	121.1	106.5	98.5	98.5
37.5°	2828.1	2282.5	812.0	247.0	201.8	156.6	124.3	103.3	90.4	82.3	82.3
40°	2813.6	2221.2	631.2	224.4	179.2	134.0	104.9	87.2	75.9	67.8	66.2
42.5°	2879.8	2205.0	476.2	205.0	156.6	114.6	90.4	74.3	63.0	53.3	53.3
45°	2991.1	2230.8	371.3	187.2	134.0	98.5	77.5	61.3	50.0	43.6	42.0
47.5°	3288.2	2332.5	290.6	172.7	114.6	85.6	64.6	50.0	40.4	33.9	32.3
50°	3719.2	2560.1	247.0	151.7	96.9	72.6	53.3	38.7	32.3	25.8	24.2
52.5°	4332.6	2942.7	224.4	134.0	80.7	59.7	42.0	30.7	24.2	19.4	17.8
55°	5000.8	3420.5	203.4	113.0	67.8	48.4	33.9	24.2	17.8	12.9	11.3
57.5°	5522.2	3833.8	185.6	93.6	54.9	38.7	25.8	17.8	12.9	8.1	6.5
60°	6092.1	4124.3	163.0	74.3	45.2	29.1	19.4	12.9	9.7	4.8	4.8
62.5°	6679.6	4464.9	134.0	58.1	35.5	22.6	14.5	9.7	6.5	1.6	1.6
65°	7496.4	4731.3	103.3	45.2	27.4	16.1	11.3	8.1	3.2	0.0	0.0
67.5°	7727.3	4600.5	75.9	35.5	19.4	11.3	8.1	4.8	1.6	0.0	0.0
69°	7496.4	4143.7	66.2	30.7	16.1	9.7	6.5	3.2	1.6	0.0	0.0
70°	7075.1	3788.6	58.1	25.8	14.5	9.7	4.8	3.2	1.6	0.0	0.0
72.5°	5917.7	2905.6	45.2	19.4	11.3	8.1	4.8	3.2	0.0	0.0	0.0
75°	4340.6	1795.0	33.9	14.5	9.7	6.5	4.8	3.2	0.0	0.0	0.0
77.5°	2326.1	655.4	24.2	9.7	6.5	4.8	4.8	3.2	0.0	0.0	0.0
80°	637.6	193.7	17.8	6.5	4.8	3.2	3.2	1.6	0.0	0.0	0.0
82.5°	174.3	50.0	11.3	6.5	4.8	3.2	1.6	0.0	0.0	0.0	0.0
85°	93.6	19.4	6.5	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	48.4	6.5	4.8	3.2	3.2	1.6	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)