

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: P484823

Luminaire Tested: **IFLD-S-SA2D-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484823
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

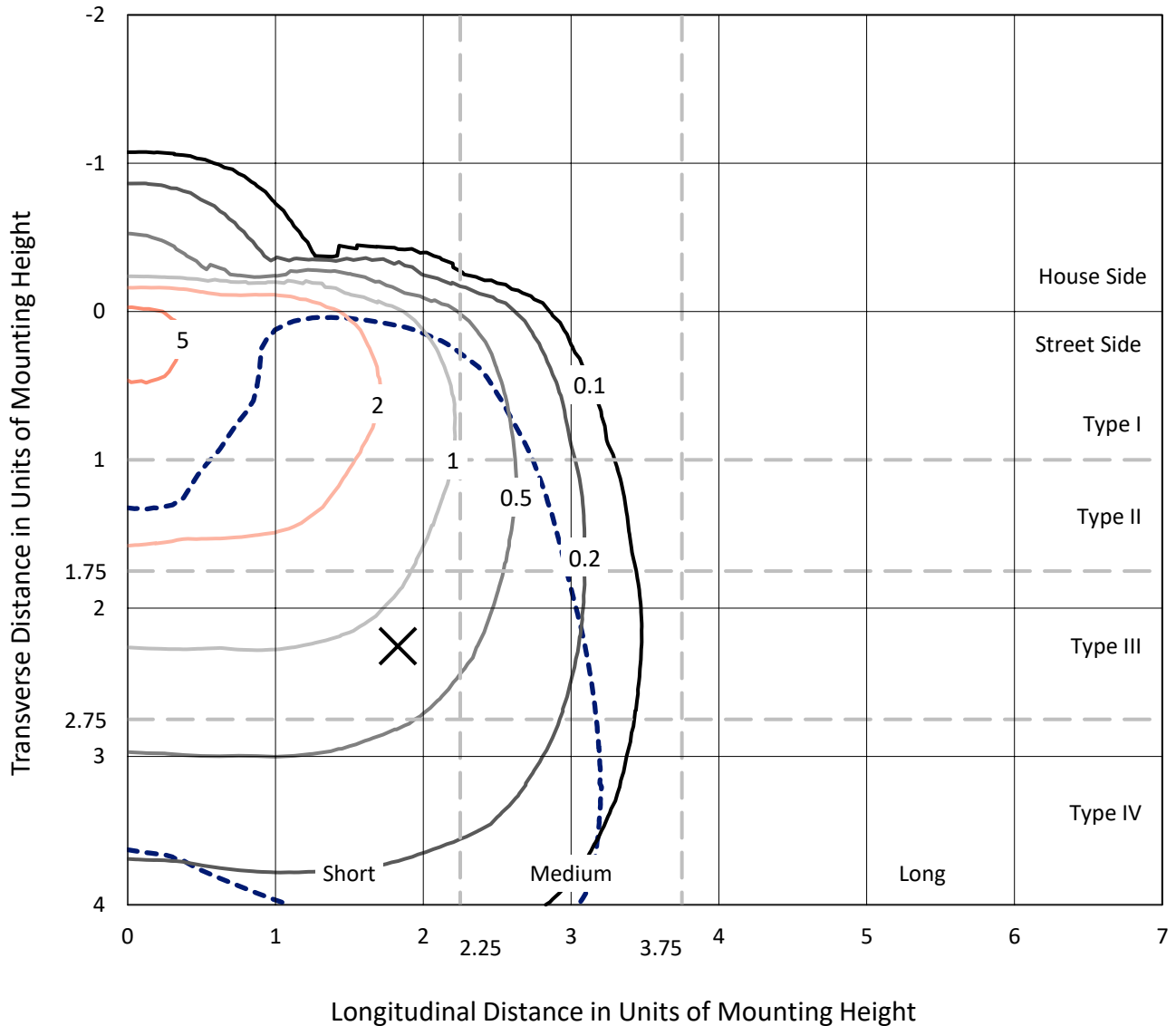
Lumens per Lamp: N/A
Luminaire Lumens: 13215.9 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

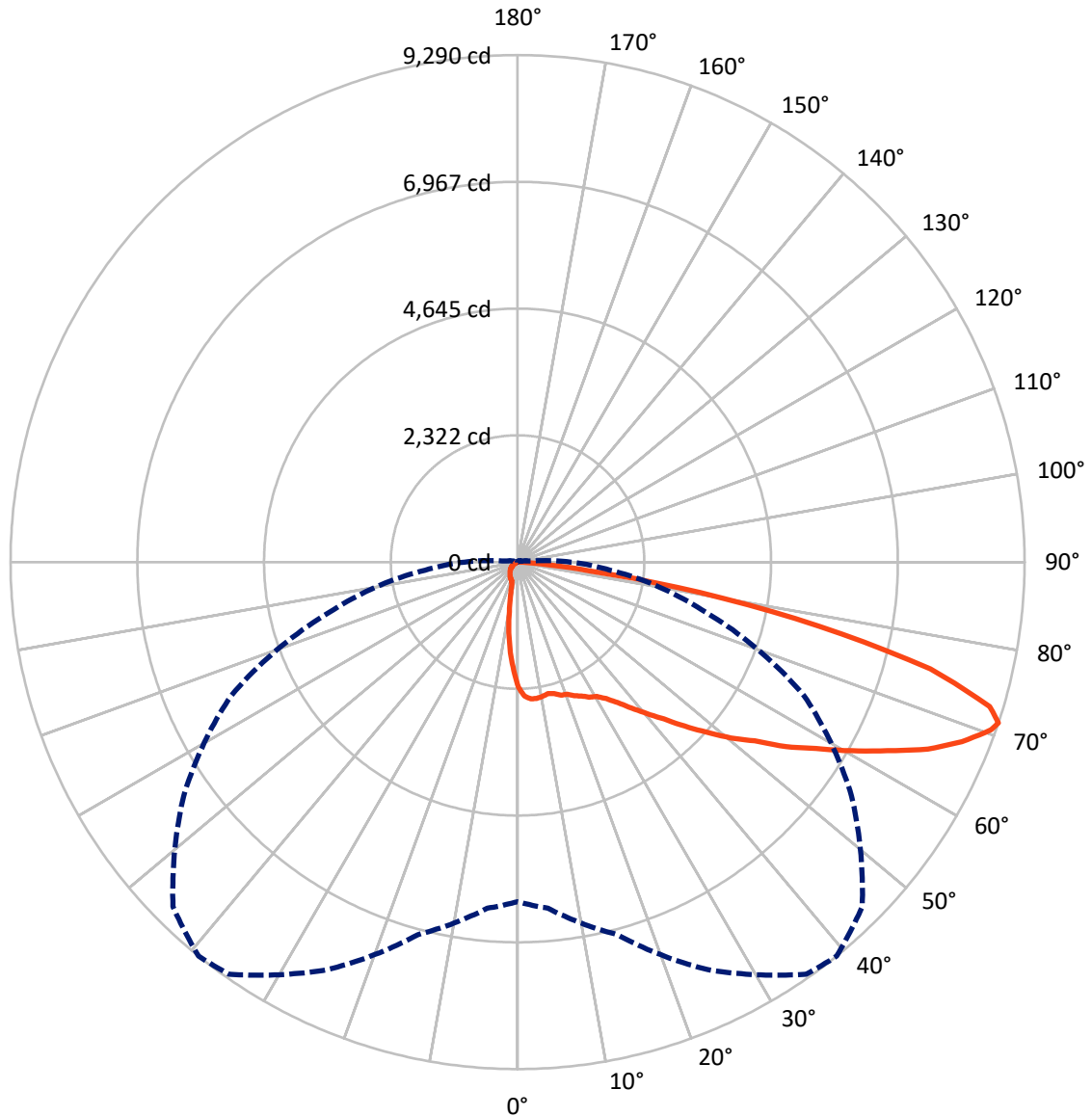
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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
House Side	Lumens	994.9	0.0	994.9
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	12221.0	0.0	12221.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	13215.9	0.0	13215.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.3	1.5
10°-20°	473.4	3.6
20°-30°	759.9	5.8
30°-40°	1163.3	8.8
40°-50°	1867.2	14.1
50°-60°	2742.7	20.8
60°-70°	3454.3	26.1
70°-80°	2305.3	17.4
80°-90°	257.6	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°	13215.9	100.0
0°-180°	13215.9	100.0

Coefficient of Utilization



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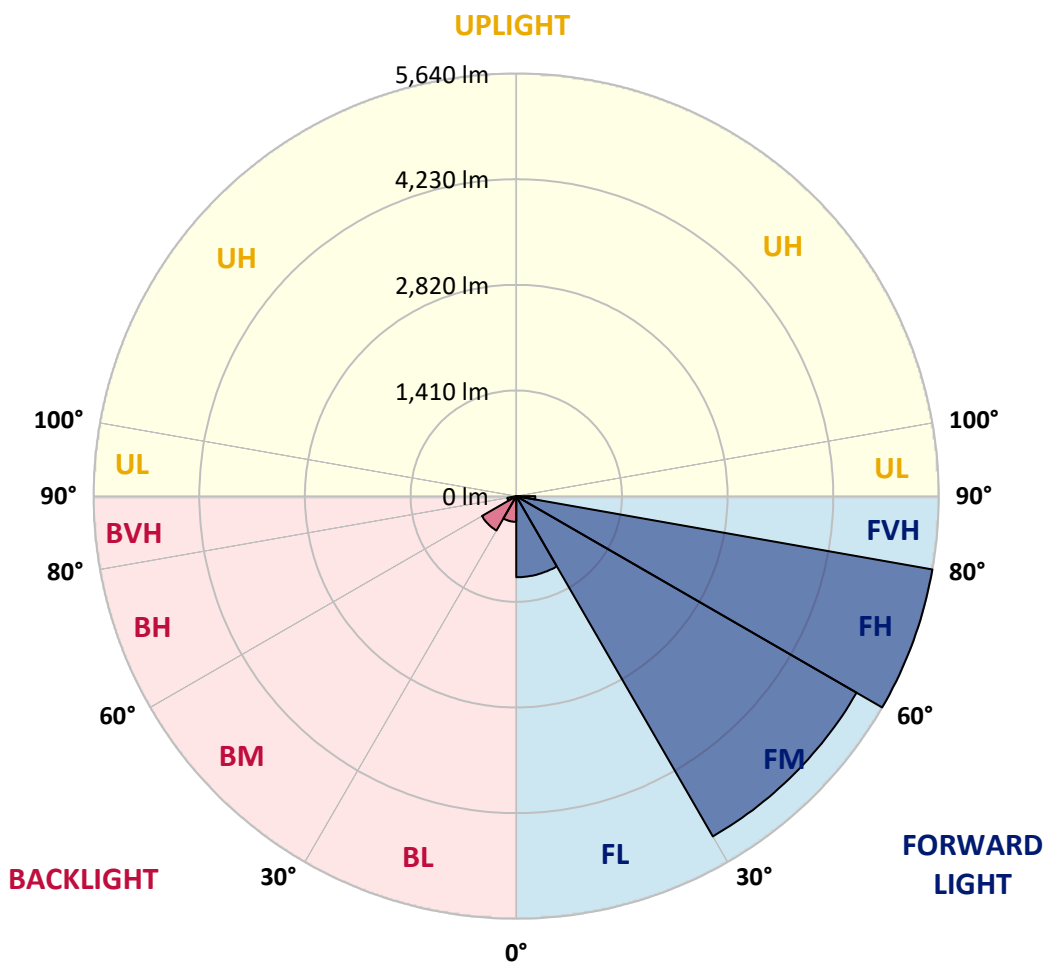
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.1	8.2			
FM (30°-60°)	5244.3	39.7			
FH (60°-80°)	5639.8	42.7			G3/7500
FVH (80°-90°)	254.8	1.9			G3/500
BL (0°-30°)	343.5	2.6	B1/500		
BM (30°-60°)	528.9	4.0	B1/1000		
BH (60°-80°)	119.7	0.9	B1/500		G1/500
BVH (80°-90°)	2.8	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°	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3
2.5°	2478.9	2503.1	2478.9	2468.5	2458.1	2459.8	2432.1	2437.3	2404.3	2361.0	2326.3
5°	2556.9	2589.8	2563.8	2551.7	2549.9	2517.0	2503.1	2470.2	2430.3	2362.7	2321.1
7.5°	2549.9	2543.0	2555.1	2544.7	2522.2	2522.2	2506.6	2459.8	2419.9	2343.7	2272.6
10°	2497.9	2518.7	2508.3	2496.2	2501.4	2503.1	2473.7	2440.7	2428.6	2352.3	2236.2
12.5°	2492.7	2458.1	2496.2	2497.9	2475.4	2473.7	2470.2	2461.5	2423.4	2354.1	2244.8
15°	2475.4	2461.5	2499.7	2501.4	2506.6	2501.4	2506.6	2499.7	2461.5	2421.7	2283.0
17.5°	2489.3	2473.7	2527.4	2553.4	2541.3	2565.5	2556.9	2525.7	2492.7	2445.9	2319.4
20°	2492.7	2515.3	2574.2	2584.6	2622.7	2582.9	2581.1	2548.2	2527.4	2477.1	2341.9
22.5°	2556.9	2567.3	2640.1	2662.6	2664.4	2659.2	2615.8	2577.7	2569.0	2506.6	2347.1
25°	2653.9	2690.4	2723.3	2737.2	2742.4	2718.1	2673.0	2624.5	2603.7	2563.8	2400.9
27.5°	2825.6	2803.0	2832.5	2853.3	2794.4	2803.0	2745.8	2704.2	2674.8	2640.1	2463.3
30°	2978.1	2957.3	2959.0	2955.6	2905.3	2858.5	2842.9	2770.1	2733.7	2747.6	2560.3
32.5°	3115.1	3070.0	3108.1	3090.8	2997.2	2983.3	2971.2	2879.3	2886.2	2950.4	2706.0
35°	3241.6	3226.0	3257.2	3226.0	3163.6	3160.1	3148.0	3068.3	3106.4	3198.3	2955.6
37.5°	3357.7	3362.9	3401.1	3385.5	3390.7	3394.1	3387.2	3302.3	3411.5	3617.8	3246.8
40°	3465.2	3458.3	3551.9	3600.4	3610.8	3649.0	3649.0	3628.2	3796.3	4028.6	3650.7
42.5°	3579.6	3597.0	3718.3	3799.8	3898.6	3931.5	3976.6	3987.0	4247.0	4512.2	4063.3
45°	3766.8	3737.4	3891.7	4084.1	4170.7	4286.9	4356.2	4415.2	4728.9	5092.9	4475.8
47.5°	4004.3	3945.4	4080.6	4359.7	4560.8	4656.1	4780.9	4858.9	5165.8	5541.9	4865.9
50°	4267.8	4207.1	4273.0	4657.8	4891.9	5065.2	5224.7	5323.5	5694.5	6044.6	5150.2
52.5°	4566.0	4510.5	4520.9	4968.1	5313.1	5439.6	5649.4	5796.7	6166.0	6348.0	5250.7
55°	4883.2	4869.3	4836.4	5271.5	5682.3	5966.6	6093.2	6270.0	6649.6	6512.7	5359.9
57.5°	5202.2	5158.8	5205.6	5673.7	6275.2	6445.1	6620.1	6725.9	6918.3	6656.5	5318.3
60°	5502.0	5505.5	5571.4	6110.5	6779.6	7020.6	7178.3	7114.2	7193.9	6718.9	5223.0
62.5°	5755.1	5748.2	5914.6	6601.1	7447.0	7610.0	7727.8	7441.8	7322.2	6779.6	5056.5
65°	5982.2	6060.2	6322.0	7185.3	8074.5	8261.7	8190.7	7752.1	7447.0	6601.1	4588.5
67.5°	6153.8	6270.0	6724.1	7734.8	8650.0	8781.8	8683.0	7987.9	7299.7	5900.7	3737.4
70°	6254.4	6372.3	7011.9	8192.4	9109.4	9204.8	8972.5	7805.8	6439.9	4273.0	2331.5
71°	6223.2	6367.1	7067.4	8240.9	9218.6	9289.7	8929.1	7469.5	5791.5	3577.9	1700.5
72.5°	5940.6	6075.8	6836.8	8206.3	9086.9	9043.5	8591.1	6661.7	4559.0	2281.3	878.9
75°	4364.9	4510.5	5867.8	7098.6	8110.9	7812.8	6953.0	4675.2	2378.3	698.6	256.6
77.5°	2173.8	2198.0	3642.0	5153.6	5949.3	5652.9	4659.6	2607.1	889.3	206.3	128.3
80°	1001.9	1008.9	1366.0	2669.6	3597.0	3385.5	2610.6	1286.2	402.2	109.2	100.5
82.5°	683.0	693.4	823.4	1106.0	1561.9	1317.4	1057.4	823.4	230.6	65.9	98.8
85°	124.8	114.4	461.1	585.9	603.2	409.1	365.8	712.5	86.7	38.1	86.7
87.5°	0.0	1.7	64.1	239.2	215.0	95.3	124.8	173.3	8.7	12.1	15.6
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°	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3	2300.3
2.5°	2296.9	2277.8	2213.6	2142.6	2078.4	2028.2	1964.0	1934.6	1887.8	1861.8	1860.0
5°	2263.9	2211.9	2101.0	1981.4	1847.9	1736.9	1613.9	1544.5	1464.8	1440.5	1435.3
7.5°	2208.4	2133.9	1971.0	1802.8	1598.3	1402.4	1251.6	1090.4	991.5	949.9	934.3
10°	2173.8	2083.6	1861.8	1610.4	1324.4	1048.8	837.3	665.7	575.5	532.2	521.8
12.5°	2173.8	2076.7	1773.3	1426.6	1047.0	717.7	518.3	419.5	390.0	379.6	379.6
15°	2168.6	2062.8	1688.4	1237.7	774.9	481.9	386.6	365.8	362.3	360.6	358.8
17.5°	2194.6	2038.6	1601.7	1034.9	547.8	379.6	355.4	351.9	348.4	348.4	345.0
20°	2213.6	2024.7	1497.7	819.9	409.1	351.9	341.5	336.3	334.6	332.8	336.3
22.5°	2198.0	2003.9	1369.4	613.7	357.1	334.6	327.6	322.4	319.0	319.0	320.7
25°	2227.5	1984.8	1241.2	462.8	334.6	319.0	312.0	308.6	306.8	305.1	301.6
27.5°	2267.4	1993.5	1088.6	372.7	315.5	303.4	296.4	293.0	291.2	287.8	291.2
30°	2315.9	1991.8	920.5	325.9	298.2	286.0	279.1	277.4	273.9	272.2	273.9
32.5°	2399.1	2036.8	747.1	301.6	279.1	268.7	261.8	260.0	258.3	256.6	254.8
35°	2577.7	2092.3	584.2	282.6	261.8	249.6	244.4	241.0	239.2	237.5	235.8
37.5°	2797.8	2215.4	445.5	265.2	244.4	232.3	227.1	225.4	218.4	216.7	215.0
40°	3073.5	2347.1	343.2	246.2	228.8	216.7	211.5	206.3	197.6	194.1	190.7
42.5°	3416.7	2475.4	282.6	228.8	211.5	202.8	194.1	185.5	178.5	171.6	168.1
45°	3759.9	2624.5	247.9	213.2	197.6	187.2	180.3	168.1	156.0	145.6	143.9
47.5°	4045.9	2678.2	227.1	195.9	183.7	175.1	164.7	149.1	131.7	121.3	119.6
50°	4259.1	2647.0	206.3	178.5	168.1	159.5	145.6	126.5	109.2	98.8	95.3
52.5°	4300.8	2510.1	187.2	164.7	152.5	142.1	126.5	105.7	86.7	76.3	74.5
55°	4271.3	2283.0	171.6	152.5	138.7	123.1	105.7	84.9	67.6	57.2	55.5
57.5°	4210.6	2014.3	154.3	136.9	121.3	105.7	86.7	69.3	50.3	39.9	39.9
60°	4004.3	1648.5	136.9	119.6	104.0	90.1	71.1	50.3	34.7	26.0	24.3
62.5°	3716.6	1267.2	119.6	102.3	90.1	74.5	55.5	36.4	20.8	13.9	13.9
65°	3191.3	887.5	100.5	84.9	74.5	60.7	41.6	22.5	12.1	5.2	5.2
67.5°	2425.1	549.5	83.2	71.1	64.1	48.5	29.5	13.9	5.2	1.7	0.0
70°	1392.0	286.0	65.9	57.2	50.3	36.4	20.8	6.9	3.5	0.0	0.0
71°	972.5	211.5	58.9	50.3	45.1	32.9	17.3	5.2	1.7	0.0	0.0
72.5°	487.1	140.4	50.3	41.6	36.4	26.0	13.9	5.2	1.7	0.0	0.0
75°	173.3	90.1	34.7	27.7	26.0	19.1	8.7	3.5	1.7	0.0	0.0
77.5°	119.6	72.8	24.3	17.3	17.3	12.1	5.2	1.7	1.7	0.0	0.0
80°	109.2	39.9	15.6	10.4	8.7	6.9	3.5	1.7	0.0	0.0	0.0
82.5°	109.2	29.5	8.7	6.9	5.2	3.5	1.7	0.0	0.0	0.0	0.0
85°	76.3	15.6	5.2	5.2	3.5	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	5.2	3.5	1.7	1.7	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)