

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: P480732

Luminaire Tested: **IFLD-S-SA3C-722-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480732
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-722-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

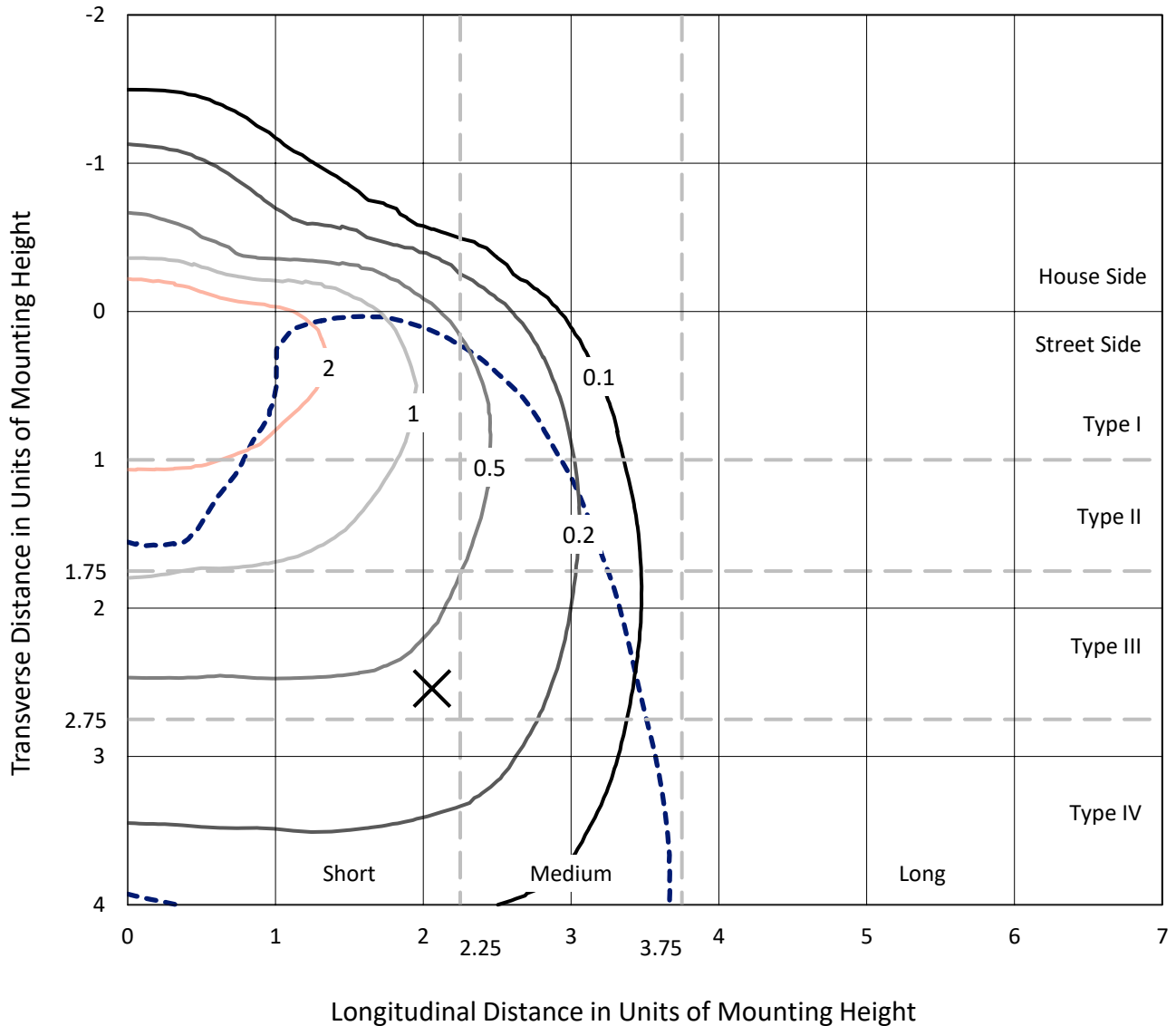
Lumens per Lamp: N/A
Luminaire Lumens: 15092.1 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

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Iso-Footcandle Lines of Horizontal Illumination

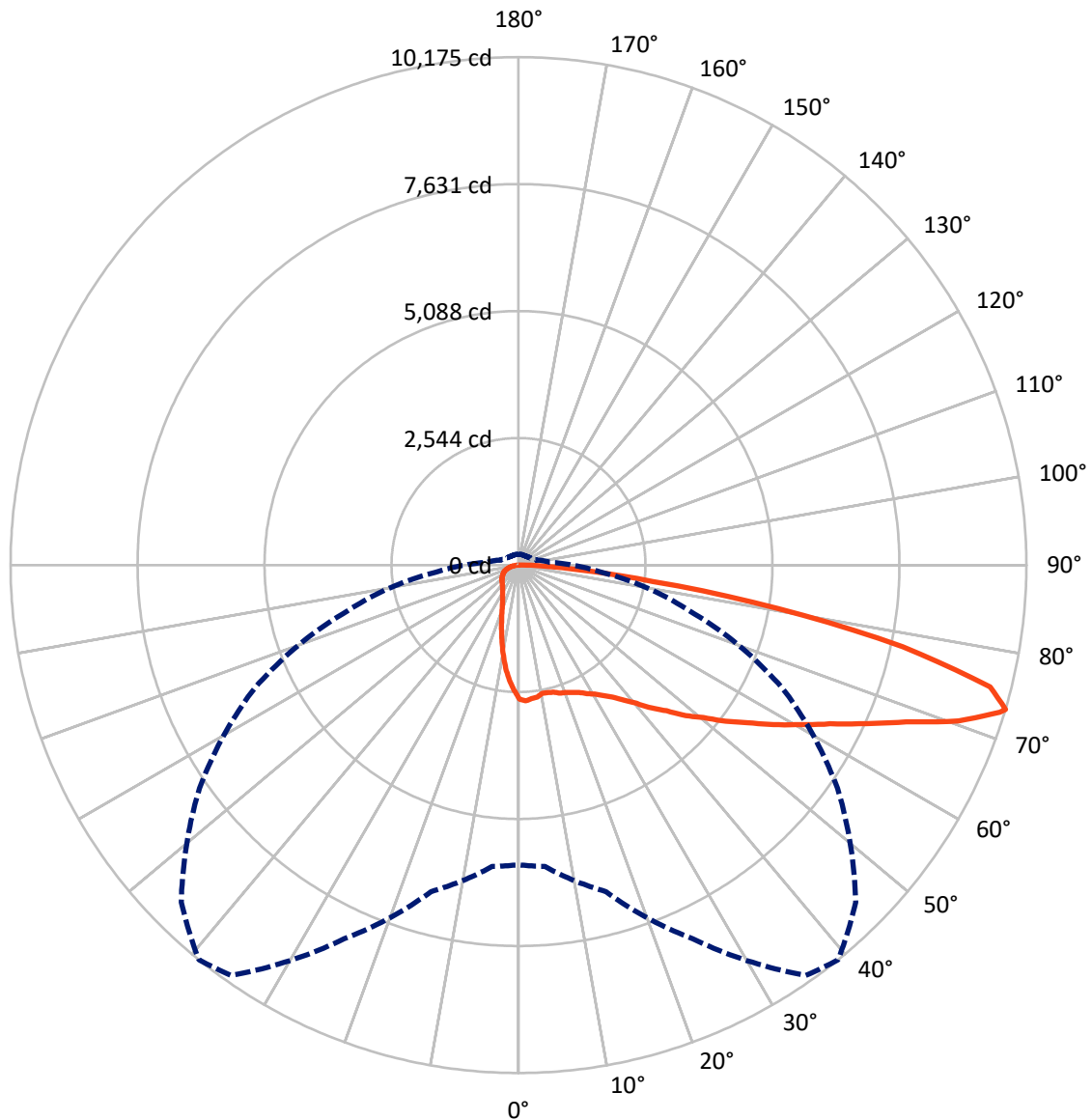
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2121.5	0.0	2121.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12970.6	0.0	12970.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	15092.1	0.0	15092.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.2	1.5
10°-20°	592.8	3.9
20°-30°	905.9	6.0
30°-40°	1320.9	8.8
40°-50°	1996.0	13.2
50°-60°	2890.3	19.2
60°-70°	3672.3	24.3
70°-80°	2977.0	19.7
80°-90°	503.7	3.3
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°	15092.1	100.0
0°-180°	15092.1	100.0

Coefficient of Utilization

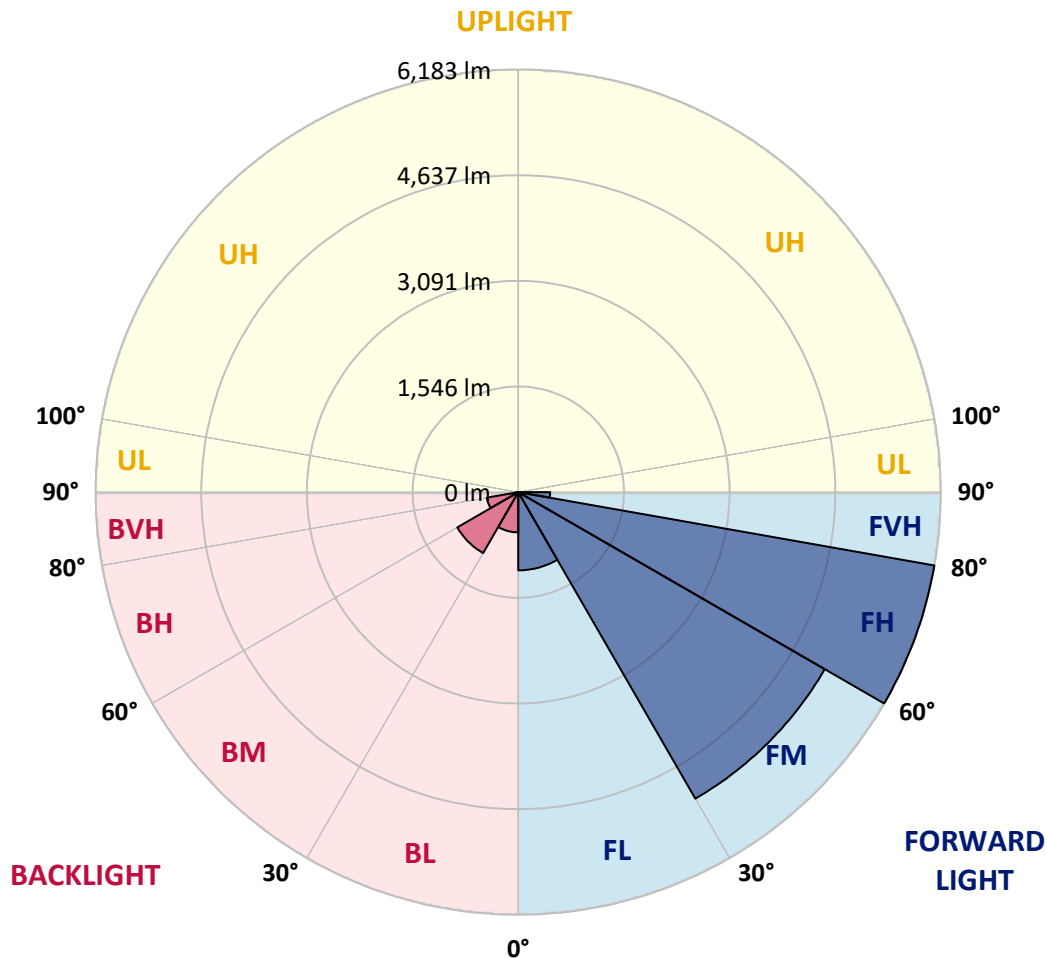


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1143.7	7.6			
FM (30°-60°)	5177.6	34.3			
FH (60°-80°)	6182.6	41.0			G3/7500
FVH (80°-90°)	466.7	3.1			G3/500
BL (0°-30°)	588.3	3.9	B2/1000		
BM (30°-60°)	1029.6	6.8	B2/2500		
BH (60°-80°)	466.6	3.1	B1/500		G1/500
BVH (80°-90°)	37.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5
2.5°	2750.7	2721.9	2727.0	2716.9	2727.0	2723.6	2718.6	2693.2	2718.6	2693.2	2686.5
5°	2713.5	2713.5	2730.4	2705.1	2708.4	2691.6	2708.4	2689.9	2673.0	2630.8	2618.9
7.5°	2701.7	2700.0	2701.7	2666.2	2683.1	2673.0	2656.1	2635.8	2602.1	2575.0	2536.2
10°	2620.6	2637.5	2618.9	2629.1	2642.6	2612.2	2610.5	2605.4	2590.2	2554.8	2531.1
12.5°	2576.7	2605.4	2615.6	2607.1	2618.9	2622.3	2612.2	2605.4	2586.9	2563.2	2495.7
15°	2595.3	2561.5	2590.2	2646.0	2634.1	2642.6	2644.3	2637.5	2629.1	2585.2	2541.3
17.5°	2600.4	2580.1	2640.9	2652.7	2667.9	2698.3	2678.0	2676.4	2644.3	2613.9	2549.7
20°	2612.2	2603.8	2652.7	2715.2	2716.9	2721.9	2732.1	2706.8	2689.9	2637.5	2539.6
22.5°	2656.1	2684.8	2730.4	2757.4	2772.6	2776.0	2776.0	2725.3	2706.8	2664.5	2586.9
25°	2787.8	2757.4	2821.6	2853.7	2831.7	2826.6	2814.8	2769.2	2749.0	2711.8	2608.8
27.5°	2884.1	2882.4	2919.5	2963.4	2904.3	2916.1	2873.9	2860.4	2814.8	2794.6	2647.7
30°	3015.8	3052.9	3051.2	3064.7	2987.1	3000.6	2946.5	2921.2	2895.9	2907.7	2762.5
32.5°	3184.6	3171.1	3193.1	3182.9	3105.3	3117.1	3052.9	3014.1	3022.5	3058.0	2919.5
35°	3292.7	3279.2	3287.6	3287.6	3264.0	3250.5	3223.5	3172.8	3213.3	3279.2	3095.1
37.5°	3409.2	3426.1	3475.0	3464.9	3434.5	3434.5	3431.1	3395.7	3448.0	3610.1	3375.4
40°	3512.2	3557.8	3588.2	3608.4	3643.9	3643.9	3672.6	3652.3	3746.9	4006.9	3718.2
42.5°	3620.3	3621.9	3787.4	3802.6	3882.0	3915.8	3937.7	3954.6	4131.9	4422.3	4084.6
45°	3758.7	3767.2	3912.4	4028.9	4152.2	4164.0	4246.7	4302.4	4520.3	4876.5	4483.1
47.5°	3941.1	3931.0	4086.3	4272.0	4425.7	4506.8	4606.4	4667.2	4935.6	5369.6	4918.8
50°	4180.9	4150.5	4240.0	4532.1	4712.8	4802.2	4979.5	5080.9	5394.9	5840.7	5217.6
52.5°	4473.0	4422.3	4493.2	4812.4	5015.0	5195.7	5364.5	5477.7	5805.3	6205.4	5438.8
55°	4782.0	4677.3	4697.6	5109.6	5401.7	5572.2	5803.6	5921.8	6256.1	6533.0	5660.0
57.5°	5087.6	5021.8	4981.2	5394.9	5862.7	6026.5	6239.2	6392.9	6676.5	6823.4	5847.5
60°	5344.3	5327.4	5261.5	5837.3	6350.7	6490.8	6713.7	6808.3	7022.7	7091.9	5850.8
62.5°	5555.3	5497.9	5602.6	6193.6	6847.1	7005.8	7250.7	7259.1	7411.1	7259.1	5678.6
65°	5720.8	5724.2	5891.4	6624.2	7421.2	7655.9	7853.5	7831.5	7733.6	7159.5	5271.7
67.5°	5871.1	5935.3	6180.1	7097.0	8159.1	8380.3	8599.8	8309.4	7821.4	6693.4	4476.4
70°	5989.3	6053.5	6570.2	7672.8	9028.7	9352.9	9401.9	8498.5	7417.8	5670.2	3377.1
72.5°	5975.8	6092.3	6791.4	8132.1	9800.4	10080.7	9685.5	7966.6	6180.1	3952.9	1970.5
73°	6004.5	6061.9	6772.8	8260.4	10035.1	10175.2	9553.8	7799.4	5828.9	3546.0	1666.6
75°	5450.7	5644.8	6436.8	8051.0	9783.5	9758.2	8797.4	6499.2	4143.7	1862.5	807.1
77.5°	4032.3	4155.5	5072.4	6620.8	8030.8	7868.7	6636.0	4153.8	1967.2	690.6	435.6
80°	1970.5	2066.8	2688.2	3822.9	5251.4	5264.9	4118.4	2161.3	842.6	390.1	297.2
82.5°	984.4	1041.8	1291.7	1680.1	2583.5	2706.8	2088.7	1229.3	521.8	221.2	168.9
85°	643.3	683.9	795.3	822.3	1095.9	1156.7	972.6	959.1	339.4	119.9	136.8
87.5°	427.2	434.0	488.0	415.4	439.0	422.1	469.4	604.5	99.6	50.7	37.1
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°	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5	2686.5
2.5°	2678.0	2654.4	2629.1	2593.6	2568.3	2529.5	2494.0	2478.8	2475.4	2477.1	2460.2
5°	2608.8	2575.0	2524.4	2451.8	2409.6	2345.4	2291.4	2262.7	2232.3	2237.3	2223.8
7.5°	2512.6	2475.4	2397.7	2313.3	2208.6	2117.4	2066.8	1995.9	1955.3	1925.0	1941.8
10°	2482.2	2418.0	2301.5	2185.0	2022.9	1903.0	1786.5	1705.4	1649.7	1595.7	1619.3
12.5°	2467.0	2402.8	2240.7	2068.5	1859.1	1676.7	1512.9	1413.3	1334.0	1286.7	1305.3
15°	2453.5	2374.1	2183.3	1940.1	1705.4	1465.7	1281.6	1149.9	1073.9	1028.3	1033.4
17.5°	2472.0	2358.9	2098.9	1815.2	1536.6	1279.9	1075.6	938.8	861.2	832.5	825.7
20°	2453.5	2342.0	2016.1	1690.2	1367.7	1102.6	906.8	793.6	739.6	715.9	710.9
22.5°	2460.2	2301.5	1930.0	1551.8	1210.7	954.0	793.6	707.5	665.3	653.5	656.8
25°	2492.3	2277.9	1843.9	1399.8	1055.3	844.3	721.0	655.2	624.8	612.9	616.3
27.5°	2515.9	2298.1	1766.2	1256.3	923.6	746.3	660.2	616.3	596.1	587.6	585.9
30°	2575.0	2309.9	1690.2	1128.0	815.6	682.2	618.0	582.6	569.0	564.0	562.3
32.5°	2662.9	2331.9	1602.4	1009.8	736.2	621.4	584.2	553.8	550.5	545.4	547.1
35°	2806.4	2407.9	1504.5	908.4	660.2	580.9	548.8	528.5	528.5	528.5	533.6
37.5°	3012.4	2514.3	1416.7	812.2	611.3	545.4	518.4	511.6	508.3	513.3	516.7
40°	3277.5	2642.6	1345.8	736.2	569.0	521.8	498.1	494.7	493.1	491.4	494.7
42.5°	3567.9	2806.4	1285.0	677.1	538.6	496.4	479.5	476.2	469.4	472.8	477.9
45°	3856.7	3009.0	1231.0	629.8	518.4	482.9	459.3	457.6	454.2	452.5	461.0
47.5°	4177.5	3208.3	1214.1	601.1	503.2	462.7	445.8	444.1	434.0	432.3	439.0
50°	4427.4	3355.2	1232.6	587.6	481.2	447.5	435.6	427.2	418.8	410.3	410.3
52.5°	4599.6	3456.5	1246.2	577.5	469.4	427.2	412.0	408.6	400.2	391.7	388.4
55°	4755.0	3517.3	1249.5	579.2	457.6	403.6	393.4	391.7	386.7	373.2	369.8
57.5°	4807.3	3491.9	1182.0	564.0	450.8	388.4	374.9	378.2	371.5	359.7	358.0
60°	4802.2	3316.3	1028.3	543.7	435.6	371.5	354.6	364.7	364.7	351.2	349.5
62.5°	4510.1	2911.1	840.9	504.9	418.8	354.6	336.0	351.2	356.3	347.8	346.2
65°	3903.9	2370.7	702.4	466.0	393.4	336.0	317.4	334.3	342.8	339.4	337.7
67.5°	3230.2	1813.5	584.2	415.4	361.4	310.7	295.5	307.3	312.4	314.1	315.8
70°	2282.9	1207.3	488.0	359.7	317.4	283.7	266.8	268.5	266.8	271.9	271.9
72.5°	1241.1	695.7	396.8	305.6	273.5	246.5	234.7	226.3	226.3	224.6	224.6
73°	1062.1	624.8	378.2	297.2	261.7	239.8	226.3	219.5	219.5	217.8	216.1
75°	596.1	457.6	324.2	255.0	226.3	209.4	199.2	189.1	187.4	187.4	187.4
77.5°	391.7	356.3	258.3	204.3	182.4	167.2	163.8	153.7	153.7	153.7	152.0
80°	293.8	280.3	199.2	155.3	140.2	128.3	125.0	118.2	116.5	109.8	111.4
82.5°	195.9	221.2	145.2	109.8	94.6	87.8	87.8	86.1	81.1	72.6	72.6
85°	155.3	180.7	104.7	67.5	55.7	47.3	49.0	47.3	45.6	37.1	35.5
87.5°	28.7	72.6	30.4	18.6	13.5	8.4	8.4	5.1	3.4	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)