

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: P481006

Luminaire Tested: **IFLD-S-SA3D-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481006
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

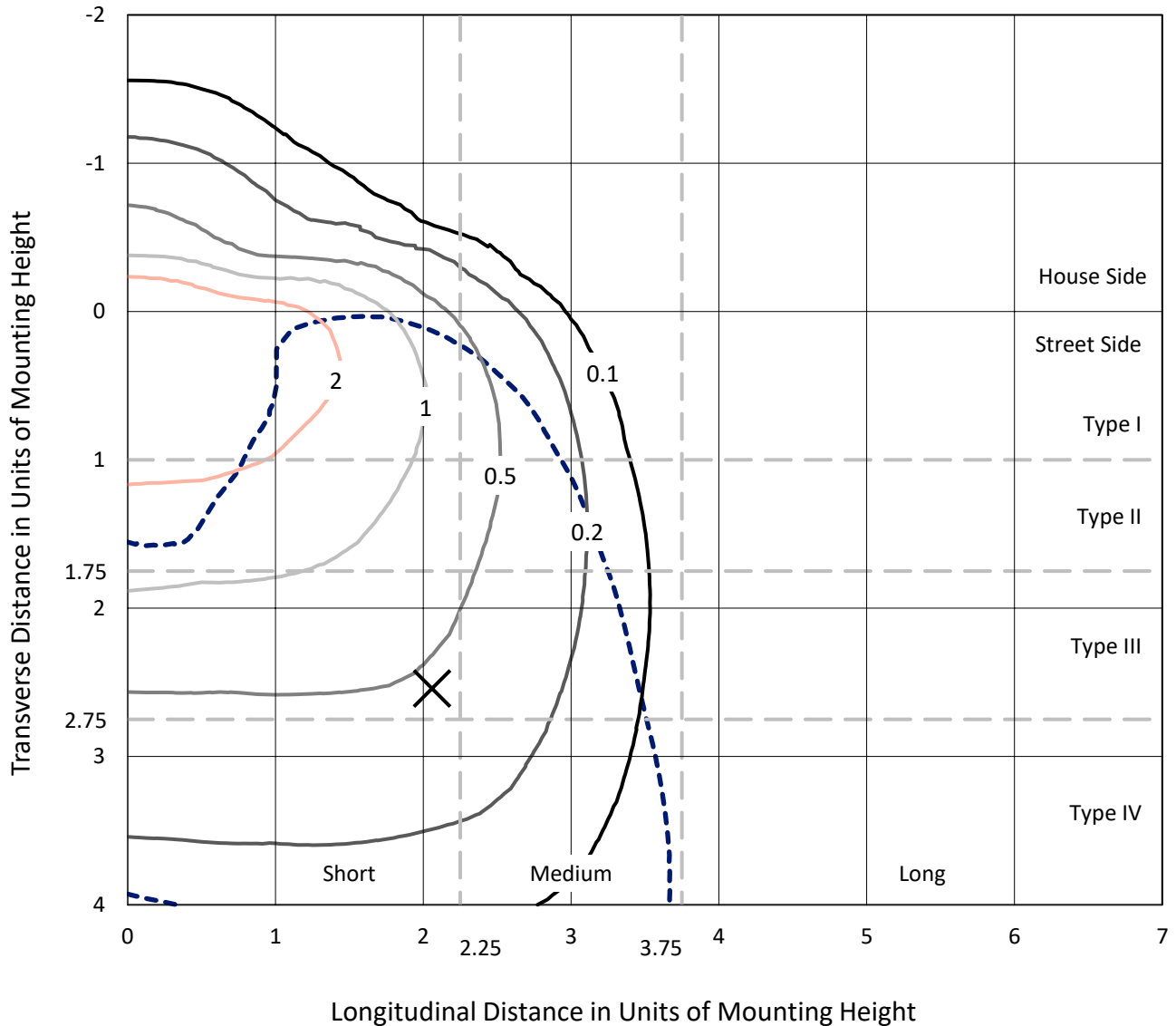
Lumens per Lamp: N/A
Luminaire Lumens: 16572.4 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1
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

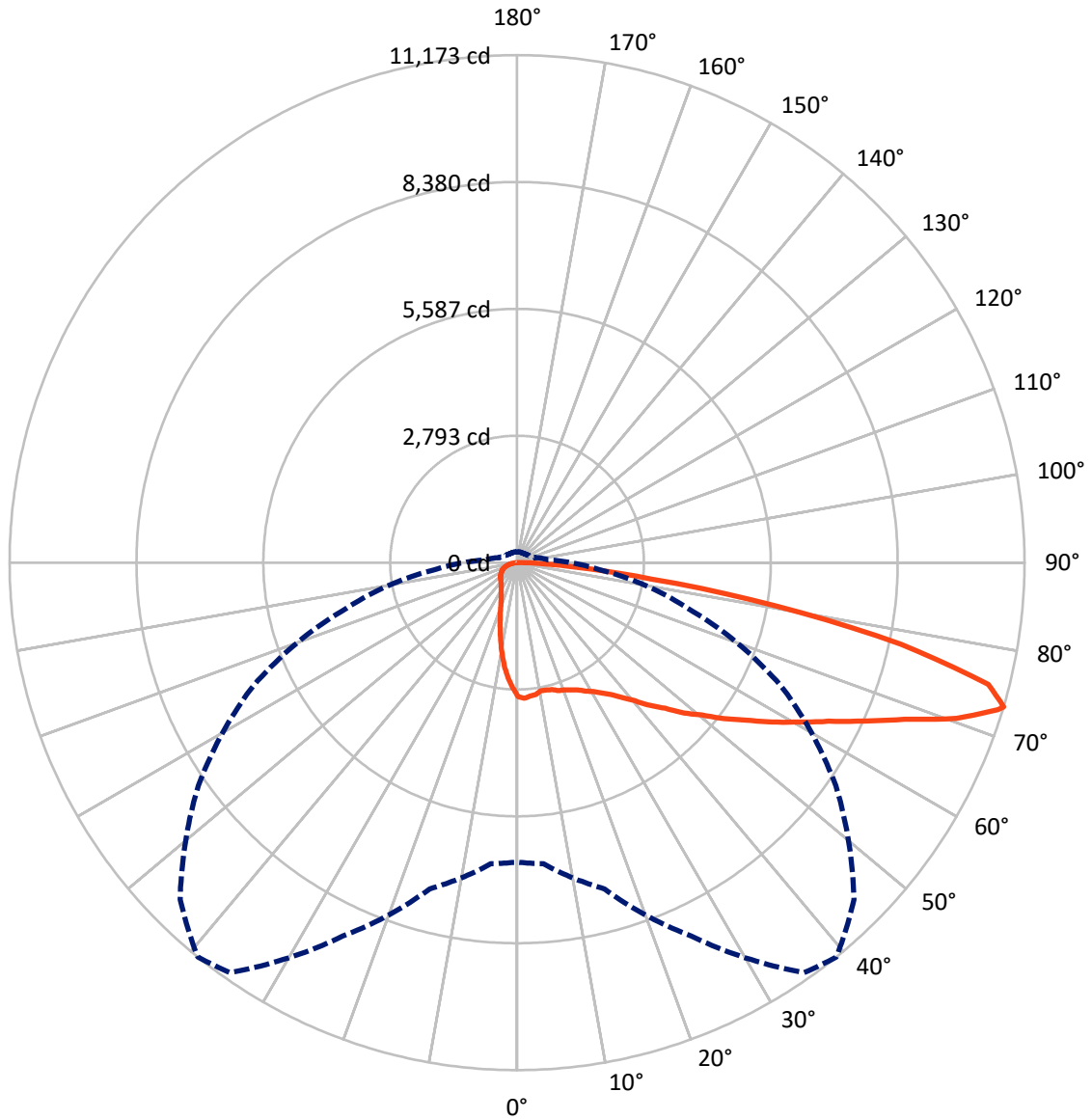
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2329.6	0.0	2329.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14242.8	0.0	14242.8
	% Fixture	85.9	0.0	85.9
Total	Lumens	16572.4	0.0	16572.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	1.5
10°-20°	651.0	3.9
20°-30°	994.8	6.0
30°-40°	1450.4	8.8
40°-50°	2191.8	13.2
50°-60°	3173.8	19.2
60°-70°	4032.5	24.3
70°-80°	3268.9	19.7
80°-90°	553.1	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°	16572.4	100.0
0°-180°	16572.4	100.0

Coefficient of Utilization



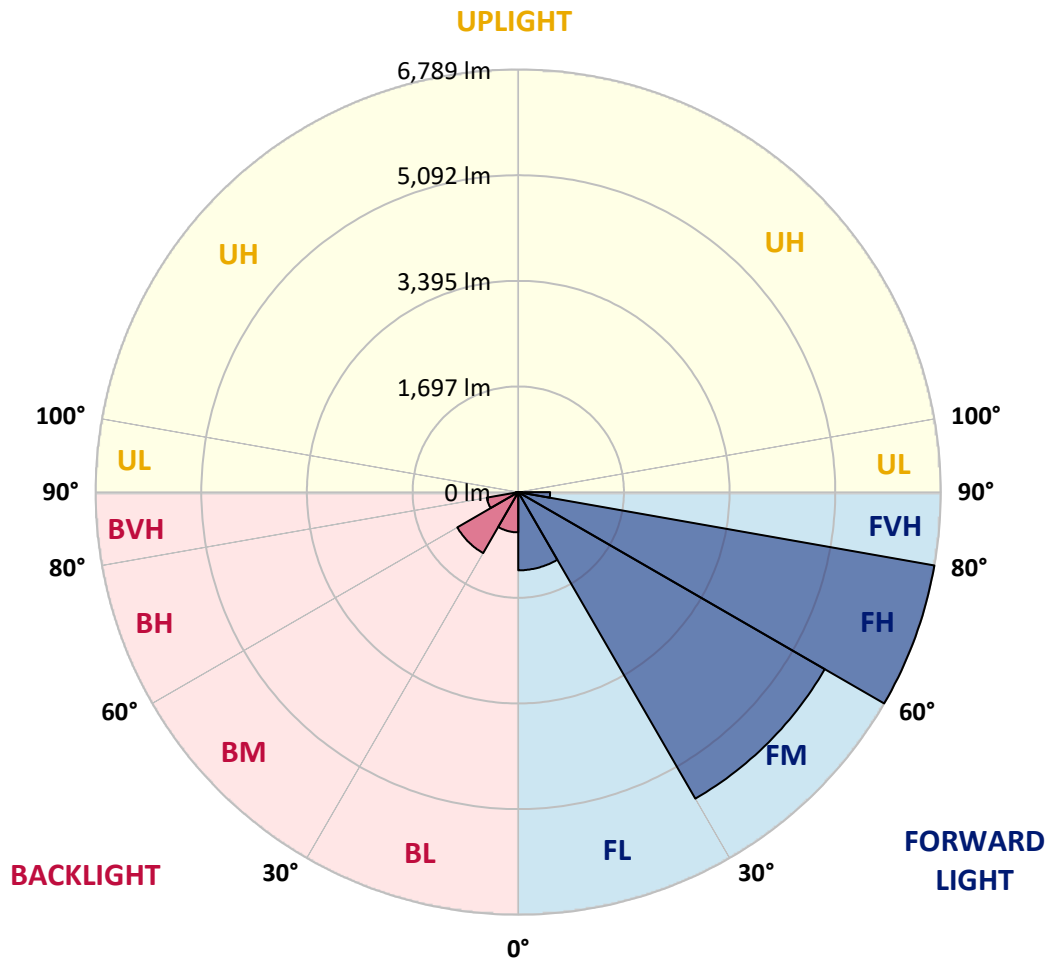
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.8	7.6			
FM (30°-60°)	5685.4	34.3			
FH (60°-80°)	6789.0	41.0			G3/7500
FVH (80°-90°)	512.5	3.1			G4/750
BL (0°-30°)	646.1	3.9	B2/1000		
BM (30°-60°)	1130.6	6.8	B2/2500		
BH (60°-80°)	512.4	3.1	B2/1000		G2/1000
BVH (80°-90°)	40.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0
2.5°	3020.4	2988.9	2994.5	2983.4	2994.5	2990.8	2985.2	2957.4	2985.2	2957.4	2950.0
5°	2979.7	2979.7	2998.2	2970.4	2974.1	2955.5	2974.1	2953.7	2935.2	2888.8	2875.8
7.5°	2966.7	2964.8	2966.7	2927.7	2946.3	2935.2	2916.6	2894.4	2857.3	2827.6	2785.0
10°	2877.7	2896.2	2875.8	2886.9	2901.8	2868.4	2866.5	2861.0	2844.3	2805.4	2779.4
12.5°	2829.5	2861.0	2872.1	2862.8	2875.8	2879.5	2868.4	2861.0	2840.6	2814.6	2740.5
15°	2849.9	2812.8	2844.3	2905.5	2892.5	2901.8	2903.6	2896.2	2886.9	2838.7	2790.5
17.5°	2855.4	2833.2	2899.9	2912.9	2929.6	2963.0	2940.7	2938.9	2903.6	2870.3	2799.8
20°	2868.4	2859.1	2912.9	2981.5	2983.4	2988.9	3000.0	2972.2	2953.7	2896.2	2788.7
22.5°	2916.6	2948.1	2998.2	3027.9	3044.5	3048.3	3048.3	2992.6	2972.2	2925.9	2840.6
25°	3061.2	3027.9	3098.3	3133.5	3109.4	3103.9	3090.9	3040.8	3018.6	2977.8	2864.7
27.5°	3166.9	3165.1	3205.9	3254.1	3189.2	3202.2	3155.8	3141.0	3090.9	3068.7	2907.3
30°	3311.5	3352.3	3350.5	3365.3	3280.0	3294.9	3235.5	3207.7	3179.9	3192.9	3033.4
32.5°	3497.0	3482.1	3506.2	3495.1	3409.8	3422.8	3352.3	3309.7	3319.0	3357.9	3205.9
35°	3615.6	3600.8	3610.1	3610.1	3584.1	3569.3	3539.6	3484.0	3528.5	3600.8	3398.7
37.5°	3743.6	3762.1	3815.9	3804.8	3771.4	3771.4	3767.7	3728.7	3786.2	3964.2	3706.5
40°	3856.7	3906.7	3940.1	3962.4	4001.3	4001.3	4032.8	4010.6	4114.4	4399.9	4082.9
42.5°	3975.3	3977.2	4158.9	4175.6	4262.7	4299.8	4323.9	4342.5	4537.2	4856.1	4485.2
45°	4127.4	4136.7	4296.1	4424.1	4559.4	4572.4	4663.2	4724.4	4963.6	5354.8	4922.8
47.5°	4327.6	4316.5	4487.1	4691.1	4859.8	4948.8	5058.2	5124.9	5419.7	5896.3	5401.2
50°	4590.9	4557.6	4655.8	4976.6	5175.0	5273.3	5468.0	5579.2	5924.1	6413.6	5729.4
52.5°	4911.7	4856.1	4933.9	5284.4	5506.9	5705.3	5890.7	6014.9	6374.6	6814.1	5972.3
55°	5251.0	5136.1	5158.3	5610.7	5931.5	6118.8	6372.8	6502.6	6869.7	7173.8	6215.2
57.5°	5586.6	5514.3	5469.8	5924.1	6437.7	6617.5	6851.2	7019.9	7331.4	7492.7	6421.0
60°	5868.5	5849.9	5777.6	6409.9	6973.5	7127.4	7372.2	7476.0	7711.5	7787.5	6424.7
62.5°	6100.2	6037.2	6152.1	6801.1	7518.7	7693.0	7961.8	7971.1	8138.0	7971.1	6235.6
65°	6281.9	6285.6	6469.2	7273.9	8149.1	8406.8	8623.8	8599.6	8492.1	7861.7	5788.7
67.5°	6447.0	6517.4	6786.3	7793.1	8959.4	9202.3	9443.3	9124.4	8588.5	7349.9	4915.4
70°	6576.7	6647.2	7214.6	8425.4	9914.3	10270.3	10324.0	9332.0	8145.4	6226.3	3708.3
72.5°	6561.9	6689.8	7457.5	8929.7	10761.6	11069.4	10635.5	8748.0	6786.3	4340.6	2163.8
73°	6593.4	6656.5	7437.1	9070.6	11019.3	11173.2	10490.9	8564.4	6400.6	3893.8	1830.1
75°	5985.3	6198.5	7068.1	8840.7	10743.1	10715.3	9660.2	7136.7	4550.1	2045.2	886.3
77.5°	4427.8	4563.1	5569.9	7270.2	8818.4	8640.4	7286.9	4561.3	2160.1	758.4	478.4
80°	2163.8	2269.5	2951.8	4197.8	5766.5	5781.3	4522.3	2373.3	925.2	428.3	326.3
82.5°	1081.0	1144.0	1418.4	1844.9	2836.9	2972.2	2293.6	1349.8	572.9	242.9	185.4
85°	706.4	750.9	873.3	903.0	1203.4	1270.1	1068.0	1053.2	372.7	131.6	150.2
87.5°	469.1	476.5	535.9	456.1	482.1	463.5	515.5	663.8	109.4	55.6	40.8
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°	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0	2950.0
2.5°	2940.7	2914.8	2886.9	2848.0	2820.2	2777.5	2738.6	2721.9	2718.2	2720.1	2701.5
5°	2864.7	2827.6	2772.0	2692.3	2645.9	2575.4	2516.1	2484.6	2451.2	2456.8	2441.9
7.5°	2759.0	2718.2	2632.9	2540.2	2425.3	2325.1	2269.5	2191.6	2147.1	2113.8	2132.3
10°	2725.6	2655.2	2527.2	2399.3	2221.3	2089.7	1961.7	1872.7	1811.5	1752.2	1778.2
12.5°	2708.9	2638.5	2460.5	2271.4	2041.4	1841.2	1661.3	1551.9	1464.8	1412.9	1433.3
15°	2694.1	2607.0	2397.4	2130.4	1872.7	1609.4	1407.3	1262.7	1179.3	1129.2	1134.8
17.5°	2714.5	2590.3	2304.7	1993.2	1687.3	1405.5	1181.1	1030.9	945.6	914.1	906.7
20°	2694.1	2571.7	2213.9	1856.0	1501.9	1210.8	995.7	871.5	812.1	786.2	780.6
22.5°	2701.5	2527.2	2119.3	1704.0	1329.4	1047.6	871.5	776.9	730.5	717.6	721.3
25°	2736.8	2501.3	2024.8	1537.1	1158.9	927.1	791.7	719.4	686.0	673.1	676.8
27.5°	2762.7	2523.5	1939.5	1379.5	1014.2	819.5	725.0	676.8	654.5	645.3	643.4
30°	2827.6	2536.5	1856.0	1238.6	895.6	749.1	678.6	639.7	624.9	619.3	617.4
32.5°	2924.0	2560.6	1759.6	1108.8	808.4	682.3	641.5	608.2	604.5	598.9	600.8
35°	3081.6	2644.0	1652.1	997.5	725.0	637.8	602.6	580.4	580.4	580.4	585.9
37.5°	3307.8	2760.9	1555.6	891.9	671.2	598.9	569.2	561.8	558.1	563.7	567.4
40°	3598.9	2901.8	1477.8	808.4	624.9	572.9	547.0	543.3	541.4	539.6	543.3
42.5°	3917.9	3081.6	1411.0	743.5	591.5	545.1	526.6	522.9	515.5	519.2	524.7
45°	4234.9	3304.1	1351.7	691.6	569.2	530.3	504.3	502.5	498.8	496.9	506.2
47.5°	4587.2	3522.9	1333.1	660.1	552.5	508.0	489.5	487.6	476.5	474.7	482.1
50°	4861.6	3684.2	1353.5	645.3	528.4	491.4	478.4	469.1	459.8	450.6	450.6
52.5°	5050.8	3795.5	1368.4	634.1	515.5	469.1	452.4	448.7	439.4	430.2	426.5
55°	5221.3	3862.2	1372.1	636.0	502.5	443.1	432.0	430.2	424.6	409.8	406.1
57.5°	5278.8	3834.4	1297.9	619.3	495.1	426.5	411.6	415.3	407.9	394.9	393.1
60°	5273.3	3641.6	1129.2	597.0	478.4	407.9	389.4	400.5	400.5	385.7	383.8
62.5°	4952.5	3196.6	923.4	554.4	459.8	389.4	369.0	385.7	391.2	382.0	380.1
65°	4286.8	2603.3	771.3	511.8	432.0	369.0	348.6	367.1	376.4	372.7	370.8
67.5°	3547.0	1991.4	641.5	456.1	396.8	341.2	324.5	337.5	343.0	344.9	346.7
70°	2506.8	1325.7	535.9	394.9	348.6	311.5	293.0	294.8	293.0	298.5	298.5
72.5°	1362.8	763.9	435.7	335.6	300.4	270.7	257.7	248.5	248.5	246.6	246.6
73°	1166.3	686.0	415.3	326.3	287.4	263.3	248.5	241.0	241.0	239.2	237.3
75°	654.5	502.5	356.0	280.0	248.5	229.9	218.8	207.7	205.8	205.8	205.8
77.5°	430.2	391.2	283.7	224.4	200.3	183.6	179.9	168.7	168.7	168.7	166.9
80°	322.6	307.8	218.8	170.6	153.9	140.9	137.2	129.8	127.9	120.5	122.4
82.5°	215.1	242.9	159.5	120.5	103.8	96.4	96.4	94.6	89.0	79.7	79.7
85°	170.6	198.4	115.0	74.2	61.2	51.9	53.8	51.9	50.1	40.8	38.9
87.5°	31.5	79.7	33.4	20.4	14.8	9.3	9.3	5.6	3.7	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)