

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: P480768

Luminaire Tested: **IFLD-S-SA2E-727-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480768
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-727-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

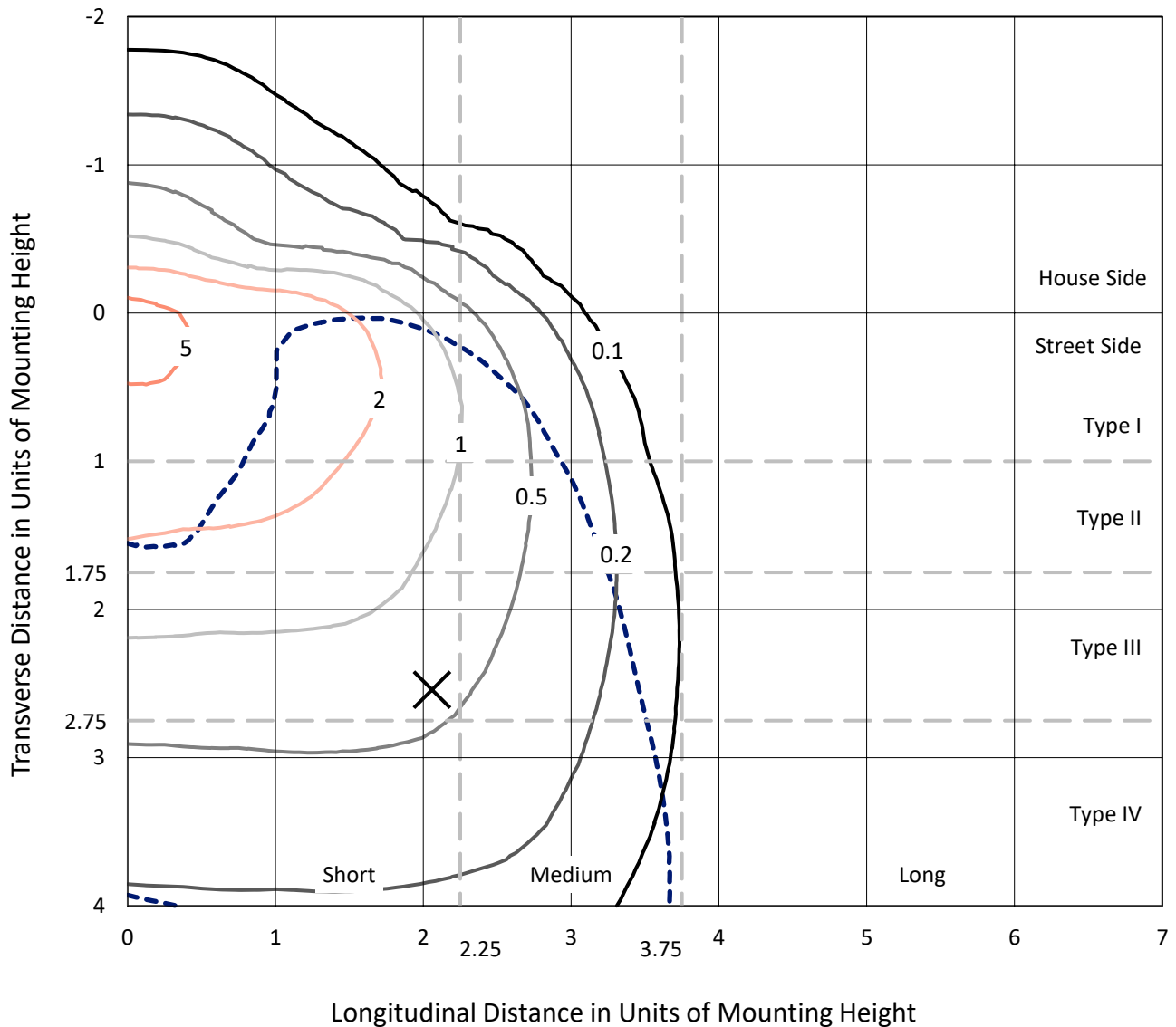
Lumens per Lamp: N/A
Luminaire Lumens: 14641.2 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 156.2
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

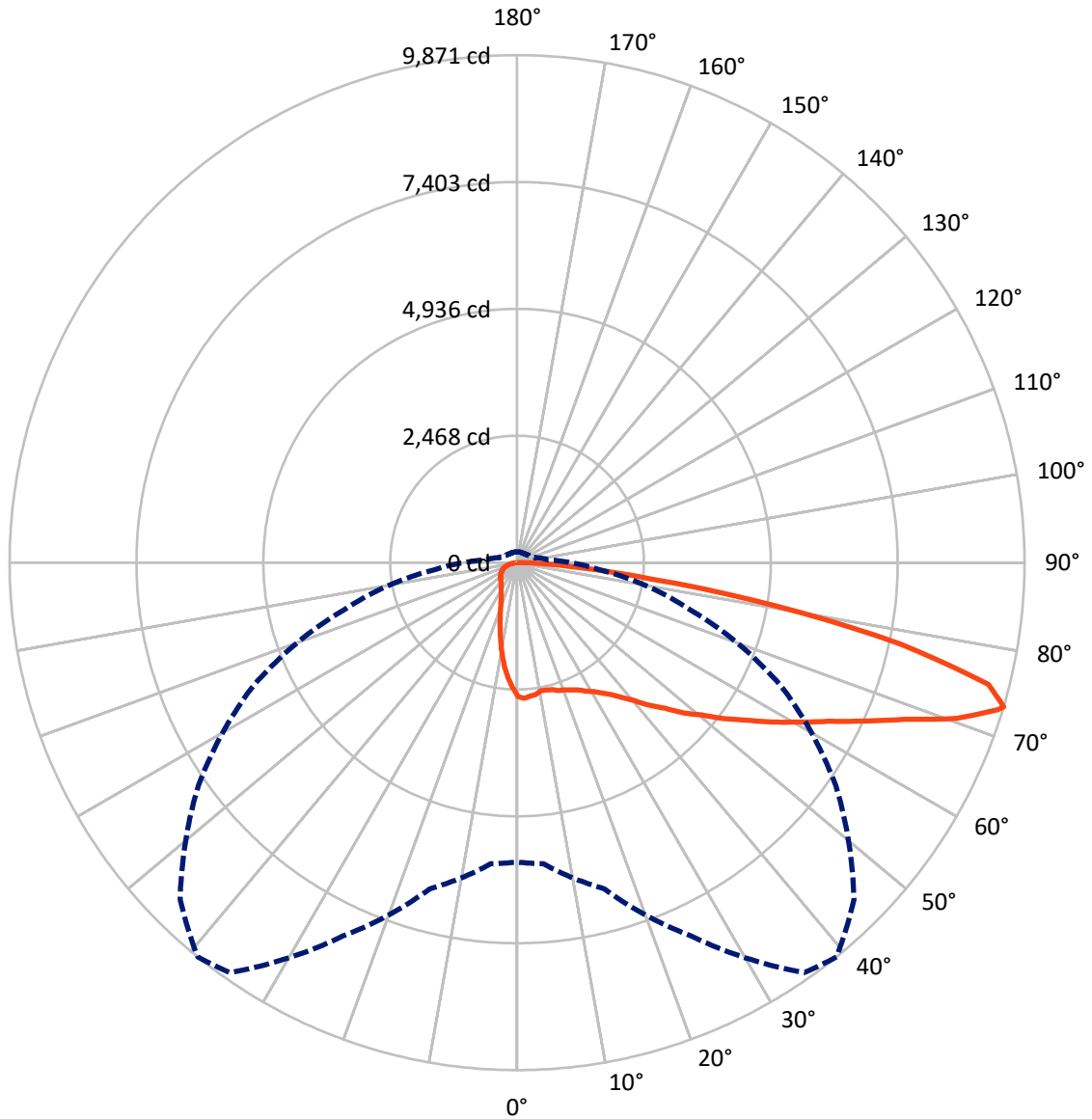
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	2058.1	0.0	2058.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12583.1	0.0	12583.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	14641.2	0.0	14641.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	1.5
10°-20°	575.1	3.9
20°-30°	878.9	6.0
30°-40°	1281.4	8.8
40°-50°	1936.4	13.2
50°-60°	2804.0	19.2
60°-70°	3562.6	24.3
70°-80°	2888.0	19.7
80°-90°	488.6	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°	14641.2	100.0
0°-180°	14641.2	100.0

Coefficient of Utilization



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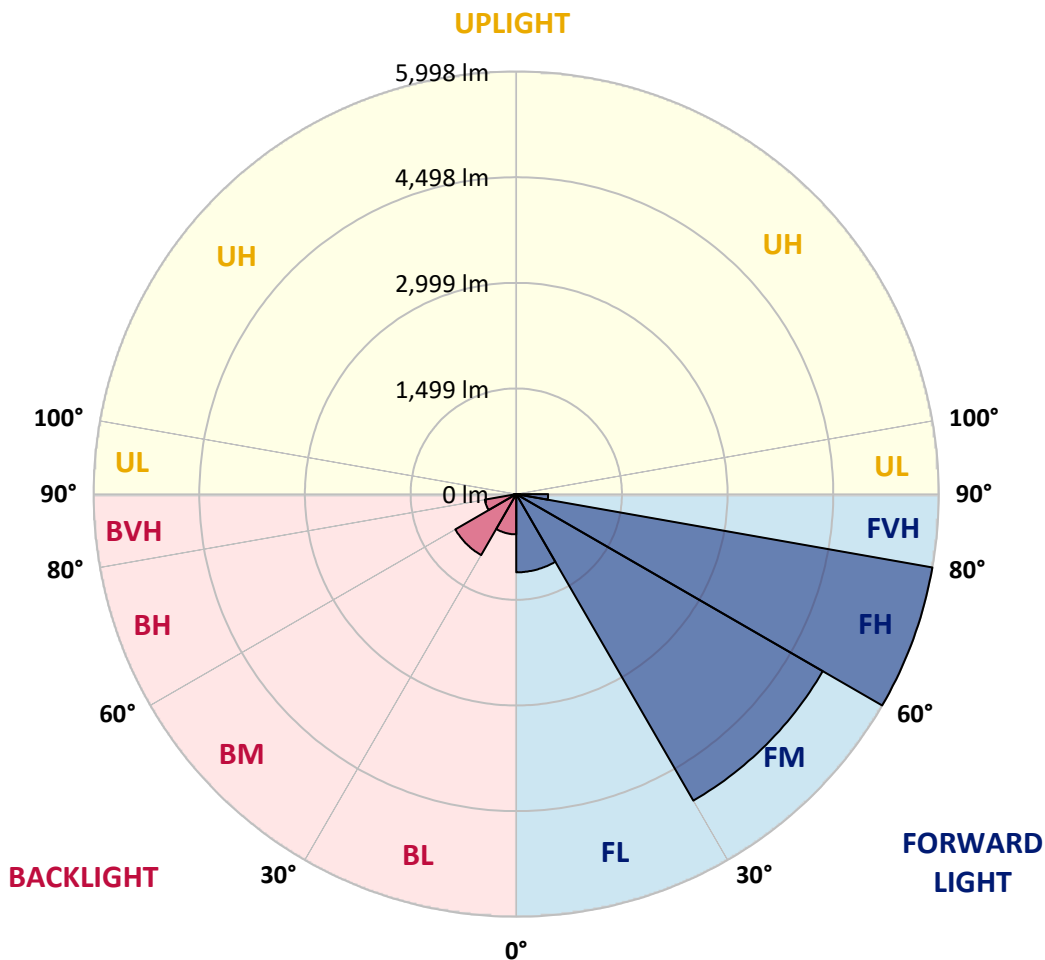
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1109.5	7.6			
FM (30°-60°)	5022.9	34.3			
FH (60°-80°)	5997.9	41.0			G3/7500
FVH (80°-90°)	452.8	3.1			G3/500
BL (0°-30°)	570.8	3.9	B2/1000		
BM (30°-60°)	998.9	6.8	B1/1000		
BH (60°-80°)	452.7	3.1	B1/500		G1/500
BVH (80°-90°)	35.8	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°	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2
2.5°	2668.5	2640.6	2645.5	2635.7	2645.5	2642.3	2637.4	2612.8	2637.4	2612.8	2606.2
5°	2632.4	2632.4	2648.8	2624.2	2627.5	2611.1	2627.5	2609.5	2593.1	2552.2	2540.7
7.5°	2621.0	2619.3	2621.0	2586.6	2603.0	2593.1	2576.7	2557.1	2524.3	2498.1	2460.4
10°	2542.3	2558.7	2540.7	2550.5	2563.6	2534.2	2532.5	2527.6	2512.9	2478.5	2455.5
12.5°	2499.8	2527.6	2537.4	2529.2	2540.7	2544.0	2534.2	2527.6	2509.6	2486.6	2421.1
15°	2517.8	2485.0	2512.9	2566.9	2555.4	2563.6	2565.3	2558.7	2550.5	2507.9	2465.4
17.5°	2522.7	2503.0	2562.0	2573.5	2588.2	2617.7	2598.0	2596.4	2565.3	2535.8	2473.5
20°	2534.2	2526.0	2573.5	2634.1	2635.7	2640.6	2650.5	2625.9	2609.5	2558.7	2463.7
22.5°	2576.7	2604.6	2648.8	2675.0	2689.8	2693.0	2693.0	2643.9	2625.9	2584.9	2509.6
25°	2704.5	2675.0	2737.3	2768.4	2747.1	2742.2	2730.7	2686.5	2666.8	2630.8	2530.9
27.5°	2797.9	2796.2	2832.3	2874.9	2817.5	2829.0	2788.1	2775.0	2730.7	2711.1	2568.6
30°	2925.7	2961.7	2960.1	2973.2	2897.8	2910.9	2858.5	2833.9	2809.4	2820.8	2679.9
32.5°	3089.5	3076.4	3097.7	3087.8	3012.5	3023.9	2961.7	2924.0	2932.2	2966.6	2832.3
35°	3194.3	3181.2	3189.4	3189.4	3166.5	3153.4	3127.1	3078.0	3117.3	3181.2	3002.7
37.5°	3307.3	3323.7	3371.2	3361.4	3331.9	3331.9	3328.6	3294.2	3345.0	3502.3	3274.6
40°	3407.3	3451.5	3481.0	3500.6	3535.0	3535.0	3562.9	3543.2	3635.0	3887.2	3607.1
42.5°	3512.1	3513.7	3674.3	3689.0	3766.0	3798.8	3820.1	3836.4	4008.4	4290.2	3962.6
45°	3646.4	3654.6	3795.5	3908.5	4028.1	4039.6	4119.8	4173.9	4385.2	4730.9	4349.2
47.5°	3823.3	3813.5	3964.2	4144.4	4293.5	4372.1	4468.8	4527.7	4788.2	5209.2	4771.8
50°	4056.0	4026.5	4113.3	4396.7	4572.0	4658.8	4830.8	4929.1	5233.8	5666.2	5061.8
52.5°	4339.3	4290.2	4359.0	4668.6	4865.2	5040.5	5204.3	5314.0	5631.8	6020.0	5276.3
55°	4639.1	4537.6	4557.2	4956.9	5240.3	5405.8	5630.2	5744.8	6069.2	6337.8	5490.9
57.5°	4935.6	4871.7	4832.4	5233.8	5687.5	5846.4	6052.8	6201.9	6477.1	6619.6	5672.8
60°	5184.6	5168.2	5104.3	5662.9	6160.9	6296.9	6513.1	6604.8	6812.9	6880.1	5676.0
62.5°	5389.4	5333.7	5435.2	6008.6	6642.5	6796.5	7034.0	7042.2	7189.7	7042.2	5509.0
65°	5549.9	5553.2	5715.4	6426.3	7199.5	7427.2	7618.8	7597.5	7502.5	6945.6	5114.2
67.5°	5695.7	5757.9	5995.5	6885.0	7915.3	8129.9	8342.9	8061.1	7587.7	6493.5	4342.6
70°	5810.4	5872.6	6373.9	7443.6	8759.0	9073.5	9121.0	8244.6	7196.2	5500.8	3276.2
72.5°	5797.3	5910.3	6588.5	7889.1	9507.6	9779.5	9396.2	7728.6	5995.5	3834.8	1911.7
73°	5825.1	5880.8	6570.4	8013.6	9735.3	9871.2	9268.4	7566.4	5654.7	3440.0	1616.8
75°	5287.8	5476.2	6244.5	7810.5	9491.2	9466.6	8534.5	6305.1	4019.9	1806.8	783.0
77.5°	3911.8	4031.4	4920.9	6423.0	7790.8	7633.6	6437.8	4029.7	1908.4	670.0	422.6
80°	1911.7	2005.0	2607.9	3708.7	5094.5	5107.6	3995.3	2096.8	817.4	378.4	288.3
82.5°	955.0	1010.7	1253.2	1629.9	2506.3	2625.9	2026.3	1192.5	506.2	214.6	163.8
85°	624.1	663.4	771.5	797.8	1063.1	1122.1	943.5	930.4	329.3	116.3	132.7
87.5°	414.4	421.0	473.4	403.0	425.9	409.5	455.4	586.4	96.6	49.1	36.0
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°	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2	2606.2
2.5°	2598.0	2575.1	2550.5	2516.1	2491.6	2453.9	2419.5	2404.7	2401.5	2403.1	2386.7
5°	2530.9	2498.1	2449.0	2378.5	2337.6	2275.3	2222.9	2195.1	2165.6	2170.5	2157.4
7.5°	2437.5	2401.5	2326.1	2244.2	2142.6	2054.2	2005.0	1936.2	1896.9	1867.4	1883.8
10°	2408.0	2345.8	2232.7	2119.7	1962.5	1846.1	1733.1	1654.5	1600.4	1548.0	1570.9
12.5°	2393.3	2331.0	2173.8	2006.7	1803.6	1626.6	1467.7	1371.1	1294.1	1248.2	1266.3
15°	2380.2	2303.2	2118.1	1882.2	1654.5	1421.9	1243.3	1115.6	1041.8	997.6	1002.5
17.5°	2398.2	2288.4	2036.2	1761.0	1490.7	1241.7	1043.5	910.8	835.4	807.6	801.0
20°	2380.2	2272.1	1955.9	1639.7	1326.9	1069.7	879.7	769.9	717.5	694.6	689.6
22.5°	2386.7	2232.7	1872.4	1505.4	1174.5	925.5	769.9	686.4	645.4	633.9	637.2
25°	2417.8	2209.8	1788.8	1358.0	1023.8	819.1	699.5	635.6	606.1	594.6	597.9
27.5°	2440.8	2229.5	1713.5	1218.8	896.0	724.0	640.5	597.9	578.3	570.1	568.4
30°	2498.1	2240.9	1639.7	1094.3	791.2	661.8	599.5	565.1	552.0	547.1	545.5
32.5°	2583.3	2262.2	1554.6	979.6	714.2	602.8	566.8	537.3	534.0	529.1	530.7
35°	2722.5	2335.9	1459.6	881.3	640.5	563.5	532.4	512.7	512.7	512.7	517.6
37.5°	2922.4	2439.1	1374.4	787.9	593.0	529.1	502.9	496.3	493.1	498.0	501.3
40°	3179.6	2563.6	1305.6	714.2	552.0	506.2	483.2	480.0	478.3	476.7	480.0
42.5°	3461.3	2722.5	1246.6	656.9	522.6	481.6	465.2	461.9	455.4	458.7	463.6
45°	3741.4	2919.1	1194.2	611.0	502.9	468.5	445.6	443.9	440.7	439.0	447.2
47.5°	4052.7	3112.4	1177.8	583.2	488.2	448.8	432.5	430.8	421.0	419.4	425.9
50°	4295.1	3254.9	1195.8	570.1	466.9	434.1	422.6	414.4	406.3	398.1	398.1
52.5°	4462.2	3353.2	1208.9	560.2	455.4	414.4	399.7	396.4	388.2	380.0	376.8
55°	4612.9	3412.2	1212.2	561.9	443.9	391.5	381.7	380.0	375.1	362.0	358.7
57.5°	4663.7	3387.6	1146.7	547.1	437.4	376.8	363.7	366.9	360.4	348.9	347.3
60°	4658.8	3217.2	997.6	527.5	422.6	360.4	344.0	353.8	353.8	340.7	339.1
62.5°	4375.4	2824.1	815.8	489.8	406.3	344.0	326.0	340.7	345.6	337.5	335.8
65°	3787.3	2299.9	681.5	452.1	381.7	326.0	308.0	324.3	332.5	329.3	327.6
67.5°	3133.7	1759.3	566.8	403.0	350.6	301.4	286.7	298.1	303.0	304.7	306.3
70°	2214.7	1171.2	473.4	348.9	308.0	275.2	258.8	260.5	258.8	263.7	263.7
72.5°	1204.0	674.9	385.0	296.5	265.4	239.2	227.7	219.5	219.5	217.9	217.9
73°	1030.4	606.1	366.9	288.3	253.9	232.6	219.5	213.0	213.0	211.3	209.7
75°	578.3	443.9	314.5	247.4	219.5	203.1	193.3	183.5	181.8	181.8	181.8
77.5°	380.0	345.6	250.6	198.2	176.9	162.2	158.9	149.1	149.1	149.1	147.4
80°	285.0	271.9	193.3	150.7	136.0	124.5	121.2	114.7	113.0	106.5	108.1
82.5°	190.0	214.6	140.9	106.5	91.7	85.2	85.2	83.5	78.6	70.4	70.4
85°	150.7	175.3	101.6	65.5	54.1	45.9	47.5	45.9	44.2	36.0	34.4
87.5°	27.8	70.4	29.5	18.0	13.1	8.2	8.2	4.9	3.3	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)