

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: P481062

Luminaire Tested: **IFLD-M-SA4A-830-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481062
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

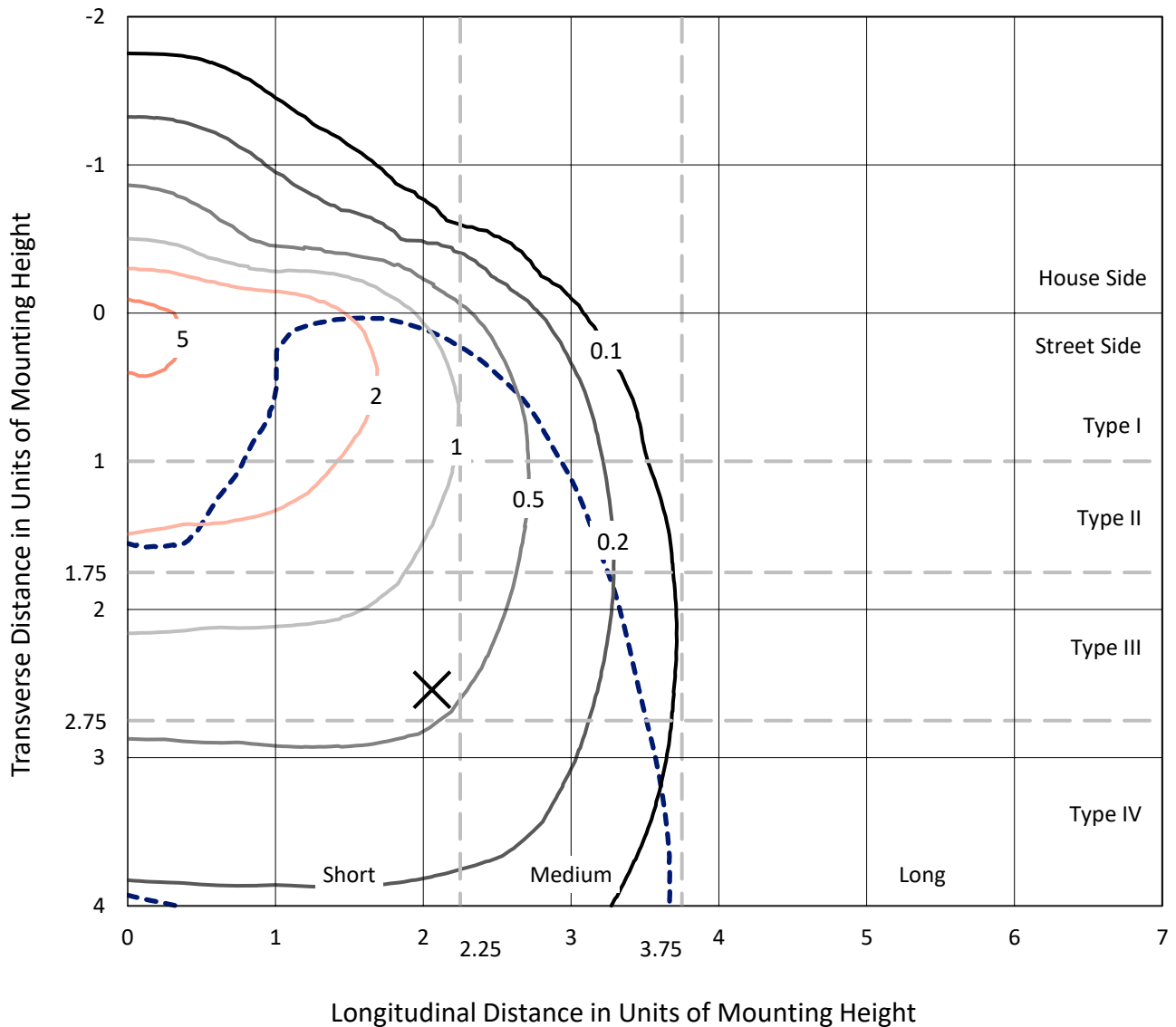
Lumens per Lamp: N/A
Luminaire Lumens: 14194 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 128.6
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

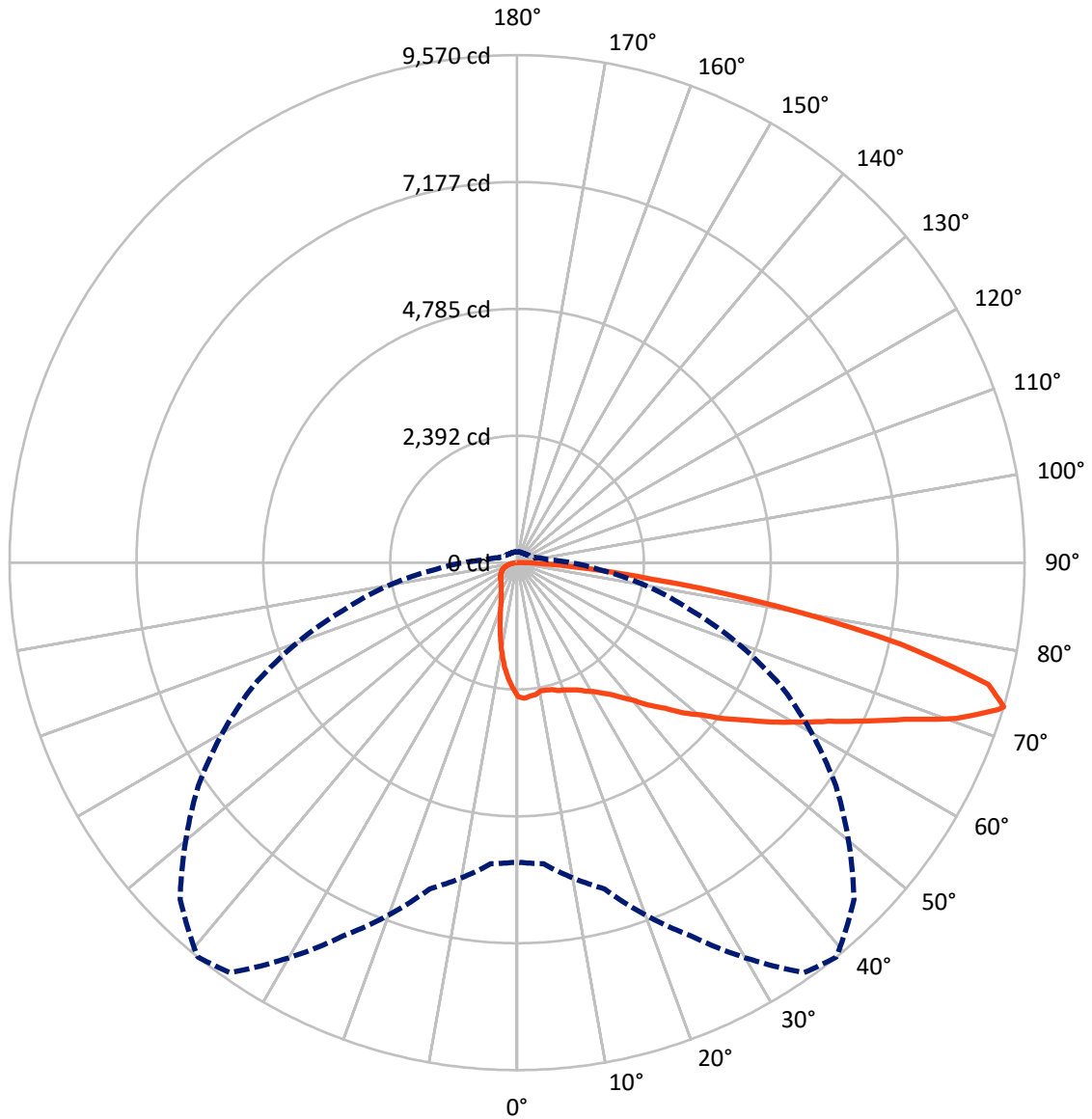
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 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	1995.3	0.0	1995.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12198.7	0.0	12198.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	14194.0	0.0	14194.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.3	1.5
10°-20°	557.6	3.9
20°-30°	852.0	6.0
30°-40°	1242.3	8.8
40°-50°	1877.2	13.2
50°-60°	2718.3	19.2
60°-70°	3453.8	24.3
70°-80°	2799.8	19.7
80°-90°	473.7	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°	14194.0	100.0
0°-180°	14194.0	100.0

Coefficient of Utilization



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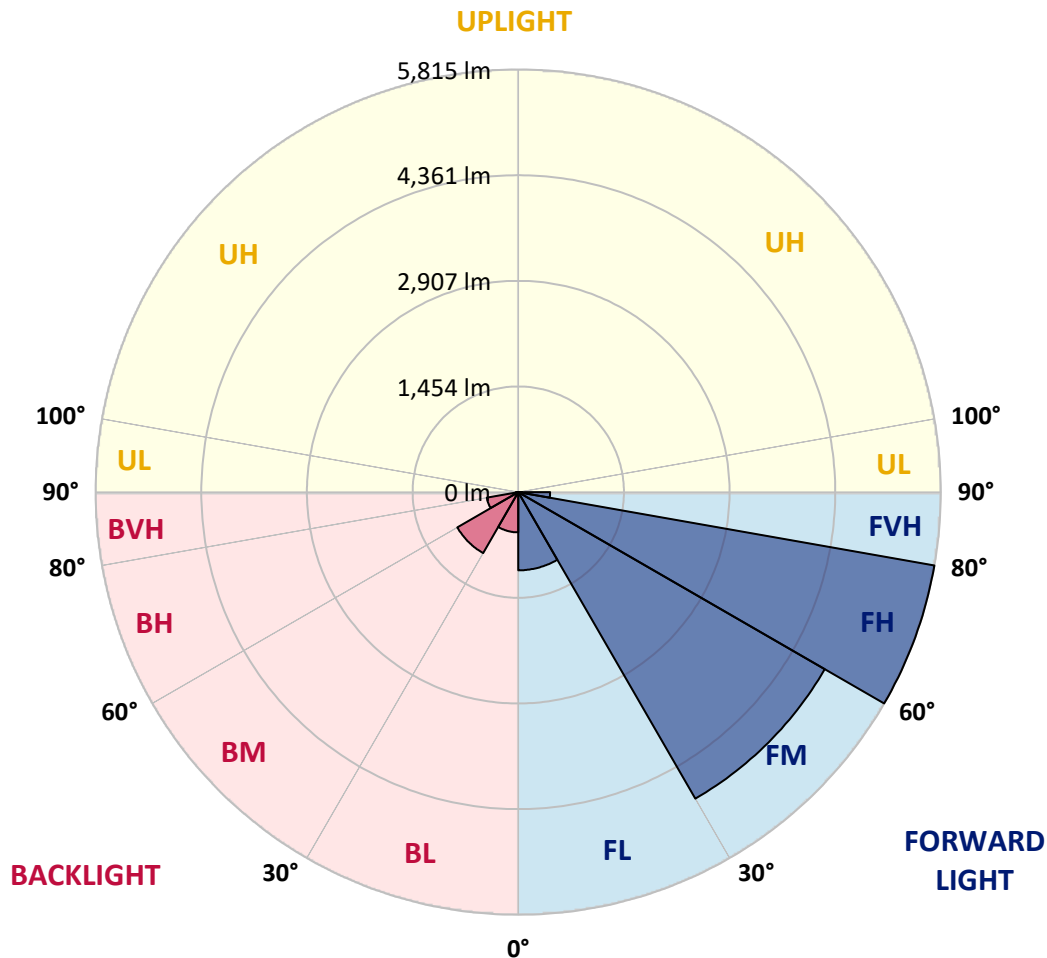
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1075.6	7.6			
FM (30°-60°)	4869.5	34.3			
FH (60°-80°)	5814.7	41.0			G3/7500
FVH (80°-90°)	439.0	3.1			G3/500
BL (0°-30°)	553.3	3.9	B2/1000		
BM (30°-60°)	968.4	6.8	B1/1000		
BH (60°-80°)	438.8	3.1	B1/500		G1/500
BVH (80°-90°)	34.8	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°	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6
2.5°	2587.0	2560.0	2564.7	2555.2	2564.7	2561.6	2556.8	2533.0	2556.8	2533.0	2526.6
5°	2552.0	2552.0	2567.9	2544.1	2547.3	2531.4	2547.3	2529.8	2513.9	2474.2	2463.1
7.5°	2540.9	2539.3	2540.9	2507.6	2523.4	2513.9	2498.0	2479.0	2447.2	2421.8	2385.3
10°	2464.7	2480.6	2463.1	2472.6	2485.3	2456.7	2455.2	2450.4	2436.1	2402.8	2380.5
12.5°	2423.4	2450.4	2459.9	2452.0	2463.1	2466.3	2456.7	2450.4	2432.9	2410.7	2347.2
15°	2440.9	2409.1	2436.1	2488.5	2477.4	2485.3	2486.9	2480.6	2472.6	2431.3	2390.0
17.5°	2445.6	2426.6	2483.7	2494.9	2509.2	2537.7	2518.7	2517.1	2486.9	2458.3	2398.0
20°	2456.7	2448.8	2494.9	2553.6	2555.2	2560.0	2569.5	2545.7	2529.8	2480.6	2388.5
22.5°	2498.0	2525.0	2567.9	2593.3	2607.6	2610.8	2610.8	2563.1	2545.7	2506.0	2432.9
25°	2621.9	2593.3	2653.7	2683.8	2663.2	2658.4	2647.3	2604.4	2585.4	2550.4	2453.6
27.5°	2712.4	2710.8	2745.8	2787.1	2731.5	2742.6	2702.9	2690.2	2647.3	2628.3	2490.1
30°	2836.3	2871.2	2869.6	2882.4	2809.3	2822.0	2771.2	2747.4	2723.5	2734.7	2598.1
32.5°	2995.1	2982.4	3003.0	2993.5	2920.5	2931.6	2871.2	2834.7	2842.7	2876.0	2745.8
35°	3096.7	3084.0	3092.0	3092.0	3069.7	3057.0	3031.6	2984.0	3022.1	3084.0	2910.9
37.5°	3206.3	3222.2	3268.3	3258.7	3230.1	3230.1	3227.0	3193.6	3242.8	3395.3	3174.6
40°	3303.2	3346.1	3374.7	3393.7	3427.1	3427.1	3454.1	3435.0	3523.9	3768.5	3496.9
42.5°	3404.8	3406.4	3562.0	3576.3	3651.0	3682.7	3703.4	3719.3	3886.0	4159.2	3841.5
45°	3535.0	3543.0	3679.6	3789.1	3905.1	3916.2	3994.0	4046.4	4251.3	4586.4	4216.3
47.5°	3706.6	3697.0	3843.1	4017.8	4162.3	4238.6	4332.3	4389.4	4641.9	5050.1	4626.1
50°	3932.1	3903.5	3987.7	4262.4	4432.3	4516.5	4683.2	4778.5	5073.9	5493.1	4907.1
52.5°	4206.8	4159.2	4225.9	4526.0	4716.6	4886.5	5045.3	5151.7	5459.8	5836.2	5115.2
55°	4497.4	4399.0	4418.0	4805.5	5080.2	5240.6	5458.2	5569.4	5883.8	6144.3	5323.2
57.5°	4784.9	4722.9	4684.8	5073.9	5513.8	5667.8	5867.9	6012.4	6279.2	6417.4	5499.5
60°	5026.3	5010.4	4948.4	5490.0	5972.7	6104.6	6314.2	6403.1	6604.8	6669.9	5502.7
62.5°	5224.8	5170.8	5269.2	5825.1	6439.6	6588.9	6819.2	6827.1	6970.1	6827.1	5340.7
65°	5380.4	5383.6	5540.8	6230.0	6979.6	7200.3	7386.1	7365.5	7273.4	6733.4	4958.0
67.5°	5521.7	5582.1	5812.3	6674.7	7673.6	7881.6	8088.1	7814.9	7356.0	6295.1	4210.0
70°	5632.9	5693.2	6179.2	7216.2	8491.4	8796.3	8842.4	7992.8	6976.4	5332.7	3176.1
72.5°	5620.2	5729.8	6387.2	7648.2	9217.2	9480.8	9109.2	7492.5	5812.3	3717.7	1853.3
73°	5647.2	5701.2	6369.8	7768.9	9437.9	9569.7	8985.3	7335.3	5482.0	3335.0	1567.4
75°	5126.3	5308.9	6053.7	7571.9	9201.3	9177.5	8273.9	6112.5	3897.1	1751.6	759.1
77.5°	3792.3	3908.2	4770.6	6226.8	7552.9	7400.4	6241.1	3906.7	1850.1	649.5	409.7
80°	1853.3	1943.8	2528.2	3595.4	4938.9	4951.6	3873.3	2032.7	792.4	366.8	279.5
82.5°	925.8	979.8	1214.9	1580.1	2429.8	2545.7	1964.4	1156.1	490.7	208.0	158.8
85°	605.1	643.2	748.0	773.4	1030.7	1087.8	914.7	902.0	319.2	112.8	128.6
87.5°	401.8	408.1	459.0	390.7	412.9	397.0	441.5	568.5	93.7	47.6	34.9
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°	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6	2526.6
2.5°	2518.7	2496.5	2472.6	2439.3	2415.5	2378.9	2345.6	2331.3	2328.1	2329.7	2313.8
5°	2453.6	2421.8	2374.2	2305.9	2266.2	2205.8	2155.0	2128.0	2099.4	2104.2	2091.5
7.5°	2363.1	2328.1	2255.1	2175.7	2077.2	1991.4	1943.8	1877.1	1839.0	1810.4	1826.3
10°	2334.5	2274.1	2164.5	2055.0	1902.5	1789.8	1680.2	1604.0	1551.5	1500.7	1523.0
12.5°	2320.2	2259.8	2107.4	1945.4	1748.5	1577.0	1422.9	1329.2	1254.6	1210.1	1227.6
15°	2307.5	2232.8	2053.4	1824.7	1604.0	1378.4	1205.3	1081.5	1010.0	967.1	971.9
17.5°	2324.9	2218.5	1974.0	1707.2	1445.1	1203.8	1011.6	883.0	809.9	782.9	776.6
20°	2307.5	2202.7	1896.2	1589.7	1286.3	1037.0	852.8	746.4	695.6	673.3	668.6
22.5°	2313.8	2164.5	1815.2	1459.4	1138.6	897.3	746.4	665.4	625.7	614.6	617.8
25°	2344.0	2142.3	1734.2	1316.5	992.5	794.0	678.1	616.2	587.6	576.5	579.6
27.5°	2366.2	2161.4	1661.1	1181.5	868.7	701.9	620.9	579.6	560.6	552.6	551.1
30°	2421.8	2172.5	1589.7	1060.8	767.0	641.6	581.2	547.9	535.2	530.4	528.8
32.5°	2504.4	2193.1	1507.1	949.7	692.4	584.4	549.5	520.9	517.7	512.9	514.5
35°	2639.4	2264.6	1415.0	854.4	620.9	546.3	516.1	497.1	497.1	497.1	501.8
37.5°	2833.1	2364.6	1332.4	763.9	574.9	512.9	487.5	481.2	478.0	482.8	486.0
40°	3082.4	2485.3	1265.7	692.4	535.2	490.7	468.5	465.3	463.7	462.1	465.3
42.5°	3355.6	2639.4	1208.5	636.8	506.6	466.9	451.0	447.8	441.5	444.7	449.4
45°	3627.2	2829.9	1157.7	592.4	487.5	454.2	432.0	430.4	427.2	425.6	433.5
47.5°	3928.9	3017.3	1141.8	565.4	473.2	435.1	419.3	417.7	408.1	406.5	412.9
50°	4163.9	3155.5	1159.3	552.6	452.6	420.8	409.7	401.8	393.8	385.9	385.9
52.5°	4325.9	3250.8	1172.0	543.1	441.5	401.8	387.5	384.3	376.4	368.4	365.3
55°	4472.0	3308.0	1175.2	544.7	430.4	379.5	370.0	368.4	363.7	351.0	347.8
57.5°	4521.2	3284.1	1111.7	530.4	424.0	365.3	352.6	355.7	349.4	338.3	336.7
60°	4516.5	3119.0	967.1	511.4	409.7	349.4	333.5	343.0	343.0	330.3	328.7
62.5°	4241.7	2737.8	790.9	474.8	393.8	333.5	316.0	330.3	335.1	327.1	325.6
65°	3671.6	2229.7	660.6	438.3	370.0	316.0	298.6	314.4	322.4	319.2	317.6
67.5°	3038.0	1705.6	549.5	390.7	339.8	292.2	277.9	289.0	293.8	295.4	297.0
70°	2147.1	1135.5	459.0	338.3	298.6	266.8	250.9	252.5	250.9	255.7	255.7
72.5°	1167.2	654.3	373.2	287.4	257.3	231.9	220.7	212.8	212.8	211.2	211.2
73°	998.9	587.6	355.7	279.5	246.2	225.5	212.8	206.4	206.4	204.9	203.3
75°	560.6	430.4	304.9	239.8	212.8	196.9	187.4	177.9	176.3	176.3	176.3
77.5°	368.4	335.1	243.0	192.2	171.5	157.2	154.0	144.5	144.5	144.5	142.9
80°	276.3	263.6	187.4	146.1	131.8	120.7	117.5	111.2	109.6	103.2	104.8
82.5°	184.2	208.0	136.6	103.2	88.9	82.6	82.6	81.0	76.2	68.3	68.3
85°	146.1	169.9	98.5	63.5	52.4	44.5	46.1	44.5	42.9	34.9	33.3
87.5°	27.0	68.3	28.6	17.5	12.7	7.9	7.9	4.8	3.2	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)