

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: P481005

Luminaire Tested: **IFLD-S-SA3C-827-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481005
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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

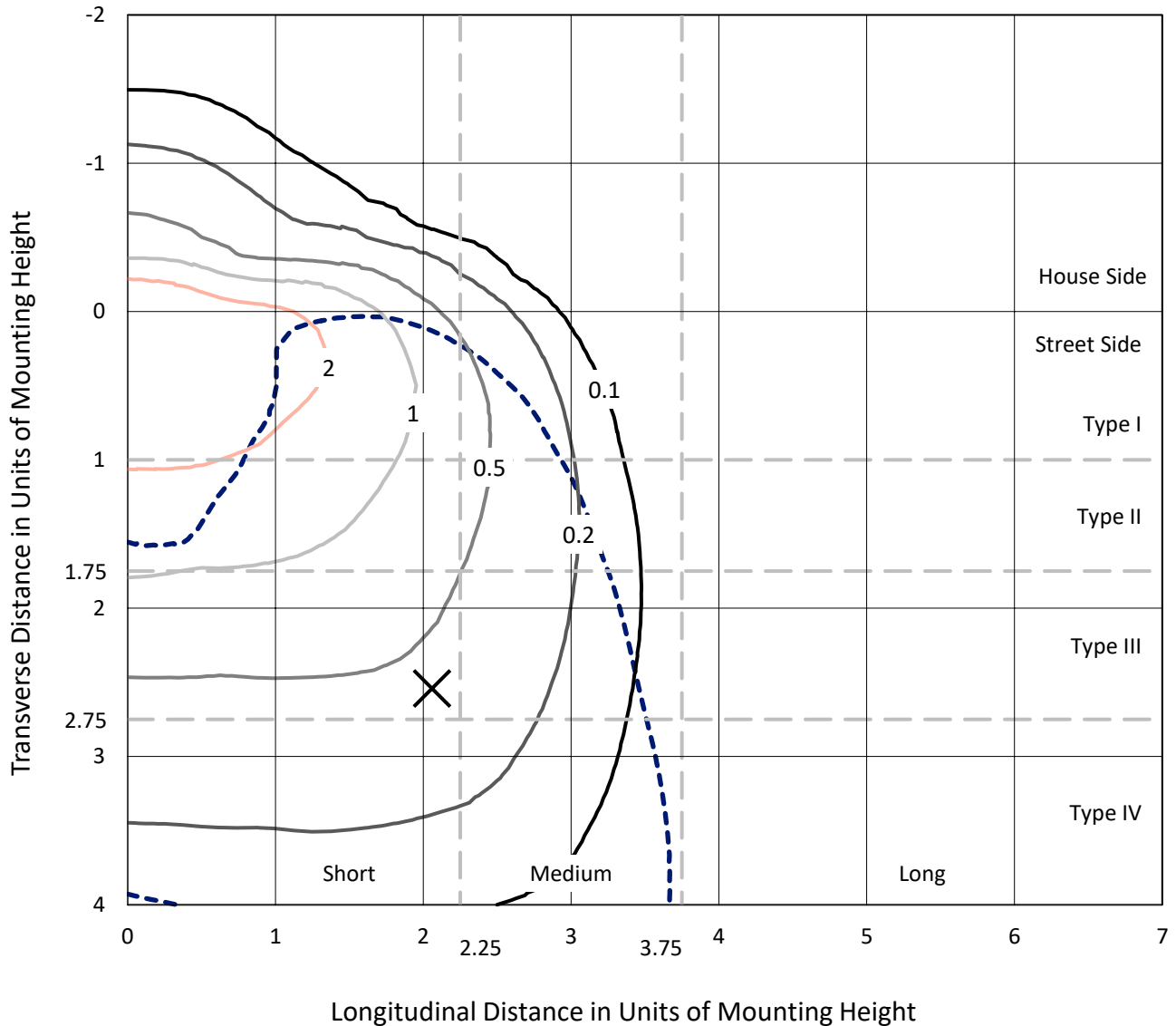
Lumens per Lamp: N/A
Luminaire Lumens: 15061.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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

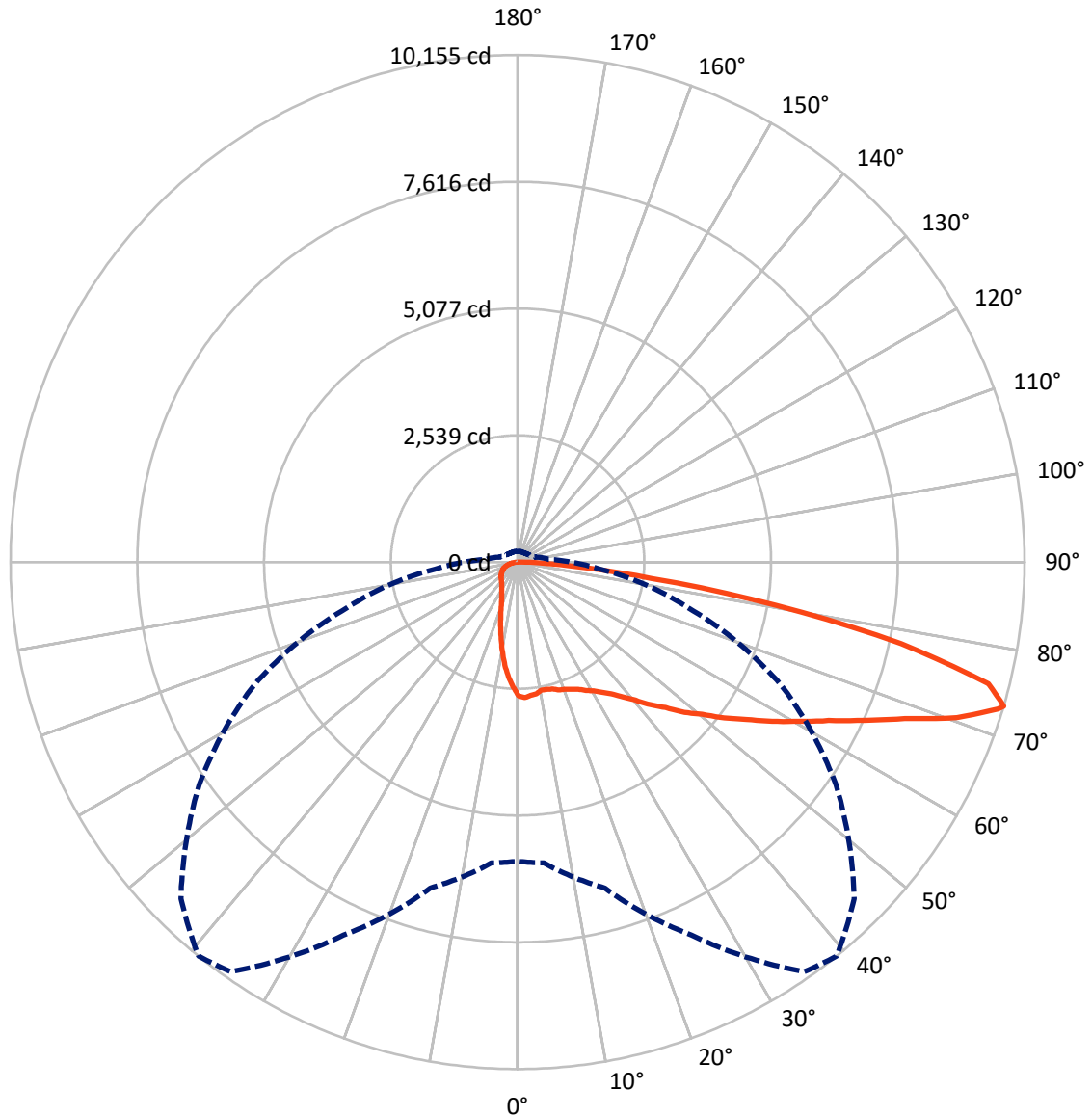
× Max cd
 - - - 1/2 Max cd



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	2117.2	0.0	2117.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	12944.2	0.0	12944.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	15061.4	0.0	15061.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	1.5
10°-20°	591.6	3.9
20°-30°	904.1	6.0
30°-40°	1318.2	8.8
40°-50°	1991.9	13.2
50°-60°	2884.4	19.2
60°-70°	3664.8	24.3
70°-80°	2970.9	19.7
80°-90°	502.7	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°	15061.4	100.0
0°-180°	15061.4	100.0

Coefficient of Utilization



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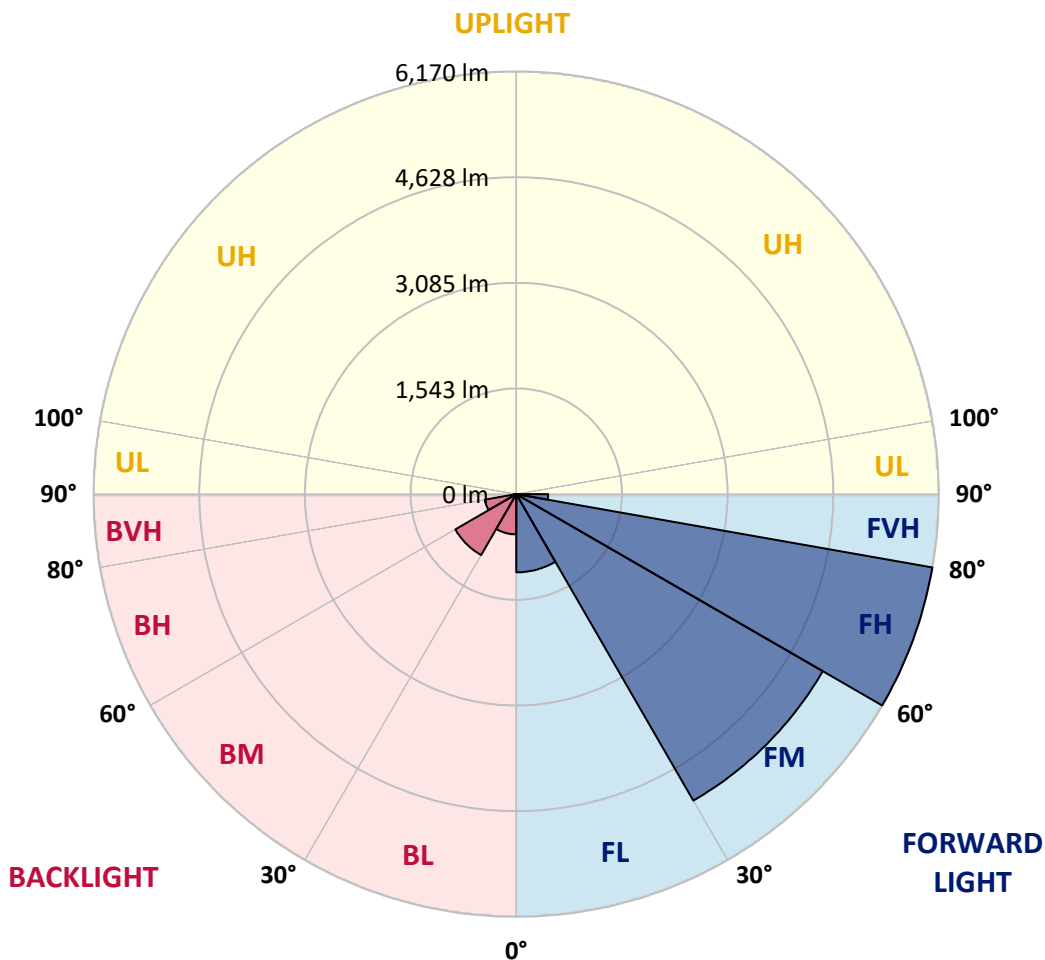
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.3	7.6			
FM (30°-60°)	5167.0	34.3			
FH (60°-80°)	6170.0	41.0			G3/7500
FVH (80°-90°)	465.8	3.1			G3/500
BL (0°-30°)	587.1	3.9	B2/1000		
BM (30°-60°)	1027.5	6.8	B2/2500		
BH (60°-80°)	465.6	3.1	B1/500		G1/500
BVH (80°-90°)	36.9	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°	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0
2.5°	2745.1	2716.4	2721.5	2711.4	2721.5	2718.1	2713.0	2687.8	2713.0	2687.8	2681.0
5°	2708.0	2708.0	2724.8	2699.6	2702.9	2686.1	2702.9	2684.4	2667.5	2625.4	2613.6
7.5°	2696.2	2694.5	2696.2	2660.8	2677.6	2667.5	2650.7	2630.5	2596.8	2569.8	2531.0
10°	2615.3	2632.2	2613.6	2623.7	2637.2	2606.9	2605.2	2600.1	2585.0	2549.6	2526.0
12.5°	2571.5	2600.1	2610.2	2601.8	2613.6	2617.0	2606.9	2600.1	2581.6	2558.0	2490.6
15°	2590.0	2556.3	2585.0	2640.6	2628.8	2637.2	2638.9	2632.2	2623.7	2579.9	2536.1
17.5°	2595.1	2574.9	2635.5	2647.3	2662.5	2692.8	2672.6	2670.9	2638.9	2608.6	2544.5
20°	2606.9	2598.4	2647.3	2709.7	2711.4	2716.4	2726.5	2701.2	2684.4	2632.2	2534.4
22.5°	2650.7	2679.3	2724.8	2751.8	2767.0	2770.3	2770.3	2719.8	2701.2	2659.1	2581.6
25°	2782.1	2751.8	2815.8	2847.8	2825.9	2820.9	2809.1	2763.6	2743.4	2706.3	2603.5
27.5°	2878.2	2876.5	2913.6	2957.4	2898.4	2910.2	2868.1	2854.6	2809.1	2788.9	2642.3
30°	3009.6	3046.7	3045.0	3058.5	2981.0	2994.5	2940.5	2915.3	2890.0	2901.8	2756.8
32.5°	3178.1	3164.6	3186.6	3176.4	3098.9	3110.7	3046.7	3007.9	3016.4	3051.7	2913.6
35°	3286.0	3272.5	3280.9	3280.9	3257.3	3243.8	3216.9	3166.3	3206.8	3272.5	3088.8
37.5°	3402.2	3419.1	3468.0	3457.9	3427.5	3427.5	3424.2	3388.8	3441.0	3602.8	3368.5
40°	3505.0	3550.5	3580.9	3601.1	3636.5	3636.5	3665.1	3644.9	3739.3	3998.8	3710.6
42.5°	3612.9	3614.6	3779.7	3794.9	3874.1	3907.8	3929.7	3946.5	4123.5	4413.3	4076.3
45°	3751.1	3759.5	3904.4	4020.7	4143.7	4155.5	4238.1	4293.7	4511.1	4866.6	4474.0
47.5°	3933.1	3923.0	4078.0	4263.3	4416.7	4497.6	4597.0	4657.7	4925.6	5358.7	4908.7
50°	4172.3	4142.0	4231.3	4522.9	4703.2	4792.5	4969.4	5070.5	5383.9	5828.8	5207.0
52.5°	4463.9	4413.3	4484.1	4802.6	5004.8	5185.1	5353.6	5466.5	5793.4	6192.8	5427.8
55°	4772.2	4667.8	4688.0	5099.2	5390.7	5560.9	5791.7	5909.7	6243.4	6519.7	5648.5
57.5°	5077.3	5011.5	4971.1	5383.9	5850.7	6014.2	6226.5	6379.8	6662.9	6809.6	5835.6
60°	5333.4	5316.5	5250.8	5825.4	6337.7	6477.6	6700.0	6794.4	7008.4	7077.5	5838.9
62.5°	5544.0	5486.7	5591.2	6181.0	6833.1	6991.5	7235.9	7244.3	7396.0	7244.3	5667.0
65°	5709.2	5712.5	5879.4	6610.7	7406.1	7640.3	7837.5	7815.6	7717.8	7144.9	5260.9
67.5°	5859.1	5923.2	6167.5	7082.5	8142.5	8363.2	8582.3	8292.5	7805.5	6679.8	4467.2
70°	5977.1	6041.1	6556.8	7657.2	9010.3	9333.9	9382.7	8481.2	7402.7	5658.6	3370.2
72.5°	5963.6	6079.9	6777.5	8115.5	9780.4	10060.1	9665.8	7950.4	6167.5	3944.9	1966.5
73°	5992.3	6049.6	6759.0	8243.6	10014.6	10154.5	9534.4	7783.6	5817.0	3538.7	1663.2
75°	5439.6	5633.3	6423.7	8034.6	9763.6	9738.3	8779.5	6486.0	4135.3	1858.7	805.5
77.5°	4024.1	4147.1	5062.1	6607.3	8014.4	7852.6	6622.5	4145.4	1963.2	689.2	434.8
80°	1966.5	2062.6	2682.7	3815.1	5240.7	5254.2	4110.0	2156.9	840.9	389.3	296.6
82.5°	982.4	1039.7	1289.1	1676.7	2578.2	2701.2	2084.5	1226.8	520.7	220.8	168.5
85°	642.0	682.5	793.7	820.7	1093.6	1154.3	970.6	957.1	338.7	119.6	136.5
87.5°	426.3	433.1	487.0	414.5	438.1	421.3	468.5	603.3	99.4	50.6	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°	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0	2681.0
2.5°	2672.6	2649.0	2623.7	2588.3	2563.1	2524.3	2488.9	2473.8	2470.4	2472.1	2455.2
5°	2603.5	2569.8	2519.2	2446.8	2404.7	2340.6	2286.7	2258.1	2227.7	2232.8	2219.3
7.5°	2507.5	2470.4	2392.9	2308.6	2204.1	2113.1	2062.6	1991.8	1951.4	1921.0	1937.9
10°	2477.1	2413.1	2296.8	2180.5	2018.8	1899.1	1782.9	1702.0	1646.4	1592.4	1616.0
12.5°	2462.0	2397.9	2236.1	2064.3	1855.3	1673.3	1509.9	1410.4	1331.2	1284.1	1302.6
15°	2448.5	2369.3	2178.9	1936.2	1702.0	1462.7	1279.0	1147.6	1071.7	1026.2	1031.3
17.5°	2467.0	2354.1	2094.6	1811.5	1533.5	1277.3	1073.4	936.9	859.4	830.8	824.0
20°	2448.5	2337.3	2012.0	1686.8	1364.9	1100.4	904.9	792.0	738.1	714.5	709.4
22.5°	2455.2	2296.8	1926.1	1548.6	1208.2	952.1	792.0	706.1	663.9	652.1	655.5
25°	2487.2	2273.2	1840.1	1397.0	1053.2	842.6	719.5	653.8	623.5	611.7	615.1
27.5°	2510.8	2293.4	1762.6	1253.7	921.8	744.8	658.9	615.1	594.8	586.4	584.7
30°	2569.8	2305.2	1686.8	1125.7	813.9	680.8	616.8	581.4	567.9	562.8	561.1
32.5°	2657.4	2327.1	1599.2	1007.7	734.7	620.1	583.1	552.7	549.3	544.3	546.0
35°	2800.7	2403.0	1501.4	906.6	658.9	579.7	547.7	527.4	527.4	527.4	532.5
37.5°	3006.2	2509.1	1413.8	810.5	610.0	544.3	517.3	510.6	507.2	512.3	515.6
40°	3270.8	2637.2	1343.0	734.7	567.9	520.7	497.1	493.7	492.1	490.4	493.7
42.5°	3560.7	2800.7	1282.4	675.7	537.6	495.4	478.6	475.2	468.5	471.8	476.9
45°	3848.8	3002.9	1228.4	628.5	517.3	481.9	458.4	456.7	453.3	451.6	460.0
47.5°	4169.0	3201.7	1211.6	599.9	502.2	461.7	444.9	443.2	433.1	431.4	438.1
50°	4418.4	3348.3	1230.1	586.4	480.3	446.6	434.8	426.3	417.9	409.5	409.5
52.5°	4590.3	3449.4	1243.6	576.3	468.5	426.3	411.2	407.8	399.4	390.9	387.6
55°	4745.3	3510.1	1247.0	578.0	456.7	402.7	392.6	390.9	385.9	372.4	369.0
57.5°	4797.5	3484.8	1179.6	562.8	449.9	387.6	374.1	377.5	370.7	358.9	357.2
60°	4792.5	3309.6	1026.2	542.6	434.8	370.7	353.9	364.0	364.0	350.5	348.8
62.5°	4500.9	2905.1	839.2	503.8	417.9	353.9	335.3	350.5	355.6	347.1	345.4
65°	3896.0	2365.9	701.0	465.1	392.6	335.3	316.8	333.7	342.1	338.7	337.0
67.5°	3223.6	1809.8	583.1	414.5	360.6	310.1	294.9	306.7	311.7	313.4	315.1
70°	2278.3	1204.9	487.0	358.9	316.8	283.1	266.2	267.9	266.2	271.3	271.3
72.5°	1238.6	694.3	396.0	305.0	273.0	246.0	234.2	225.8	225.8	224.1	224.1
73°	1059.9	623.5	377.5	296.6	261.2	239.3	225.8	219.1	219.1	217.4	215.7
75°	594.8	456.7	323.5	254.5	225.8	209.0	198.8	188.7	187.0	187.0	187.0
77.5°	390.9	355.6	257.8	203.9	182.0	166.8	163.5	153.3	153.3	153.3	151.7
80°	293.2	279.7	198.8	155.0	139.9	128.1	124.7	118.0	116.3	109.5	111.2
82.5°	195.5	220.8	144.9	109.5	94.4	87.6	87.6	85.9	80.9	72.5	72.5
85°	155.0	180.3	104.5	67.4	55.6	47.2	48.9	47.2	45.5	37.1	35.4
87.5°	28.6	72.5	30.3	18.5	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)