

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: P480846

Luminaire Tested: **IFLD-S-SA2E-735-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480846  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-735-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

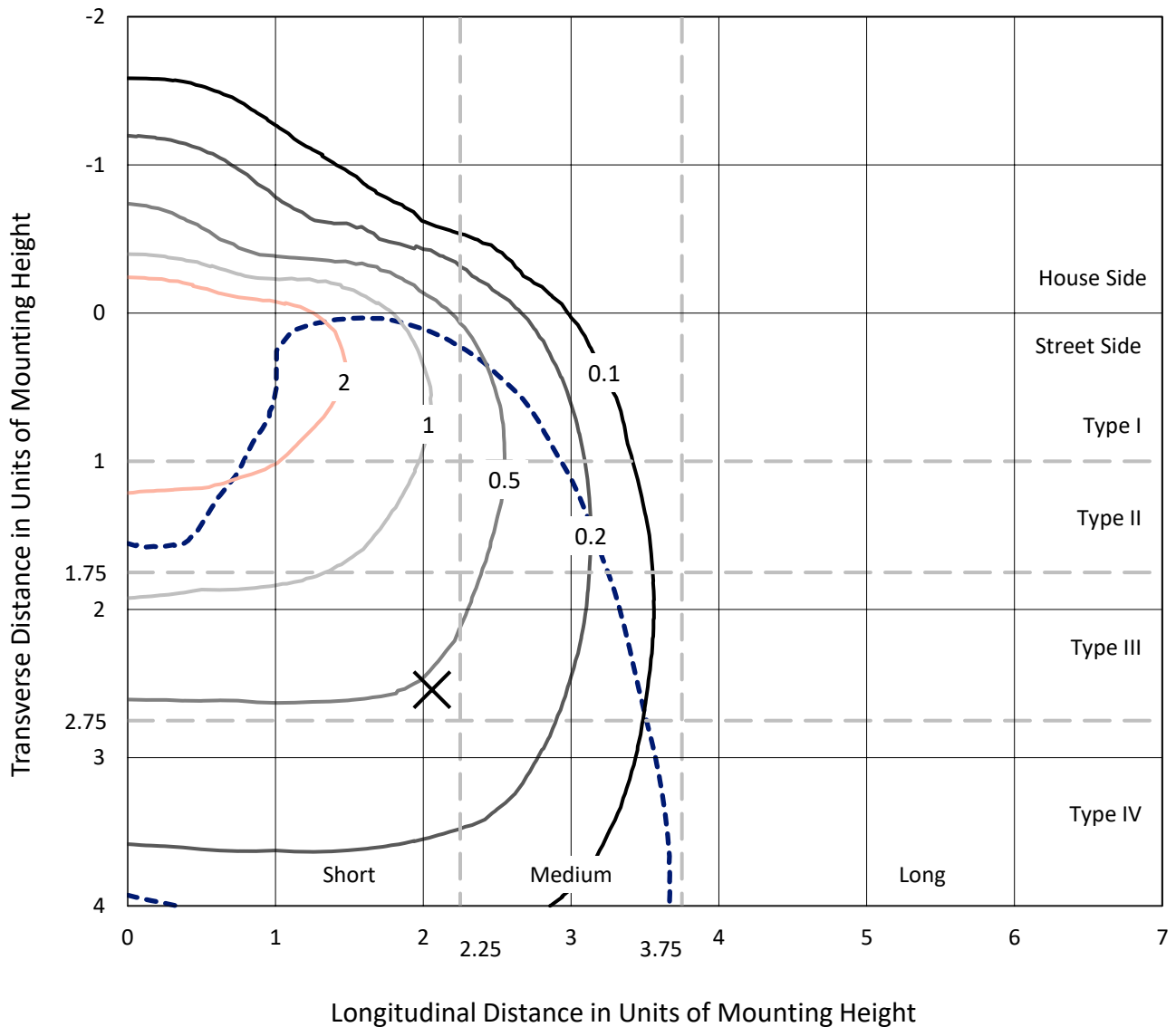
Lumens per Lamp: N/A  
Luminaire Lumens: 17267.3 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

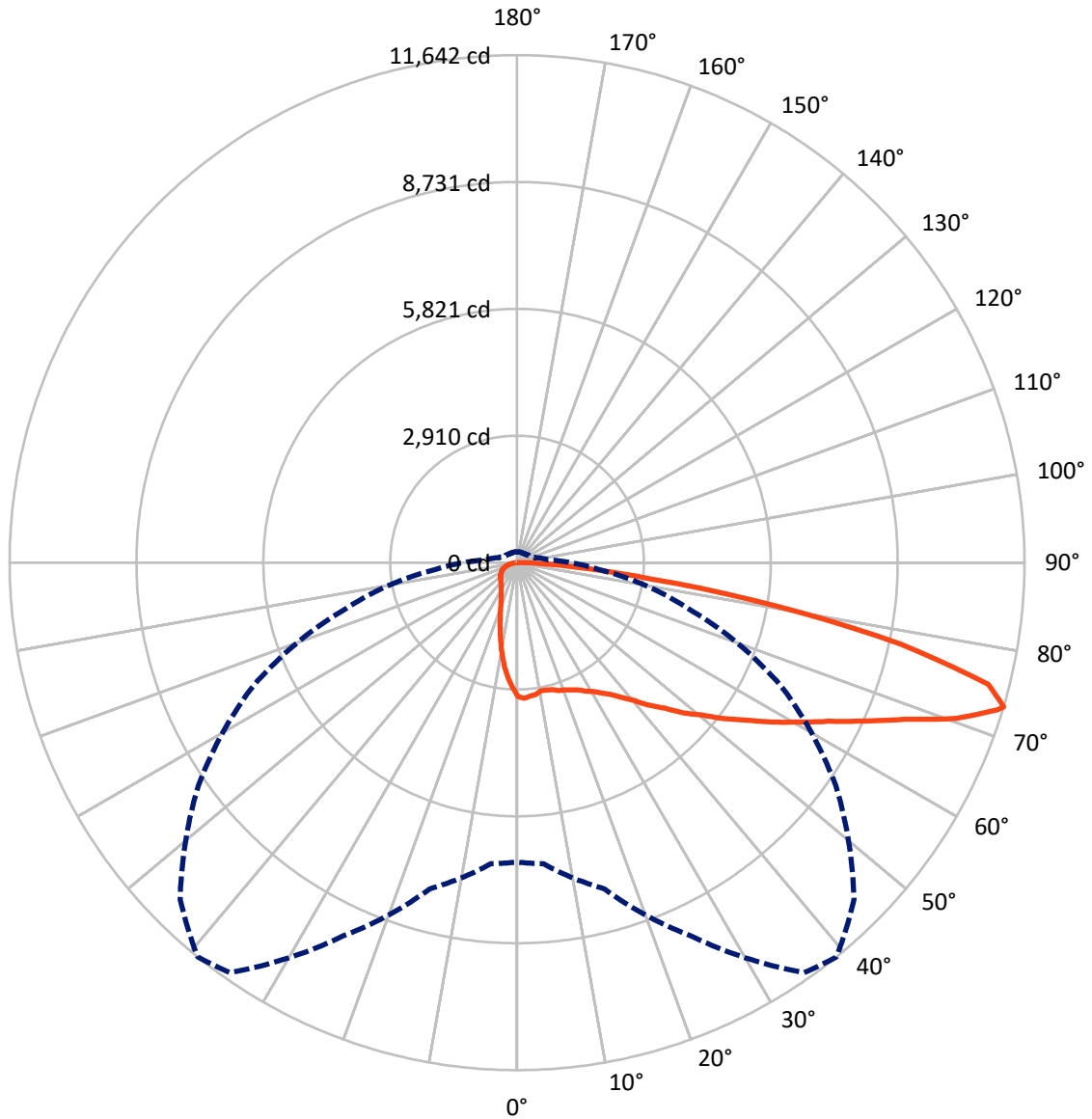
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P480846  
CATALOG NUMBER: IFLD-S-SA2E-735-U-SL4

### 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
<b>House Side</b>	Lumens	2427.3	0.0	2427.3
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	14840.0	0.0	14840.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	17267.3	0.0	17267.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.8	1.5
10°-20°	678.3	3.9
20°-30°	1036.5	6.0
30°-40°	1511.3	8.8
40°-50°	2283.7	13.2
50°-60°	3306.9	19.2
60°-70°	4201.6	24.3
70°-80°	3406.0	19.7
80°-90°	576.3	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°	17267.3	100.0
0°-180°	17267.3	100.0

**Coefficient of Utilization**

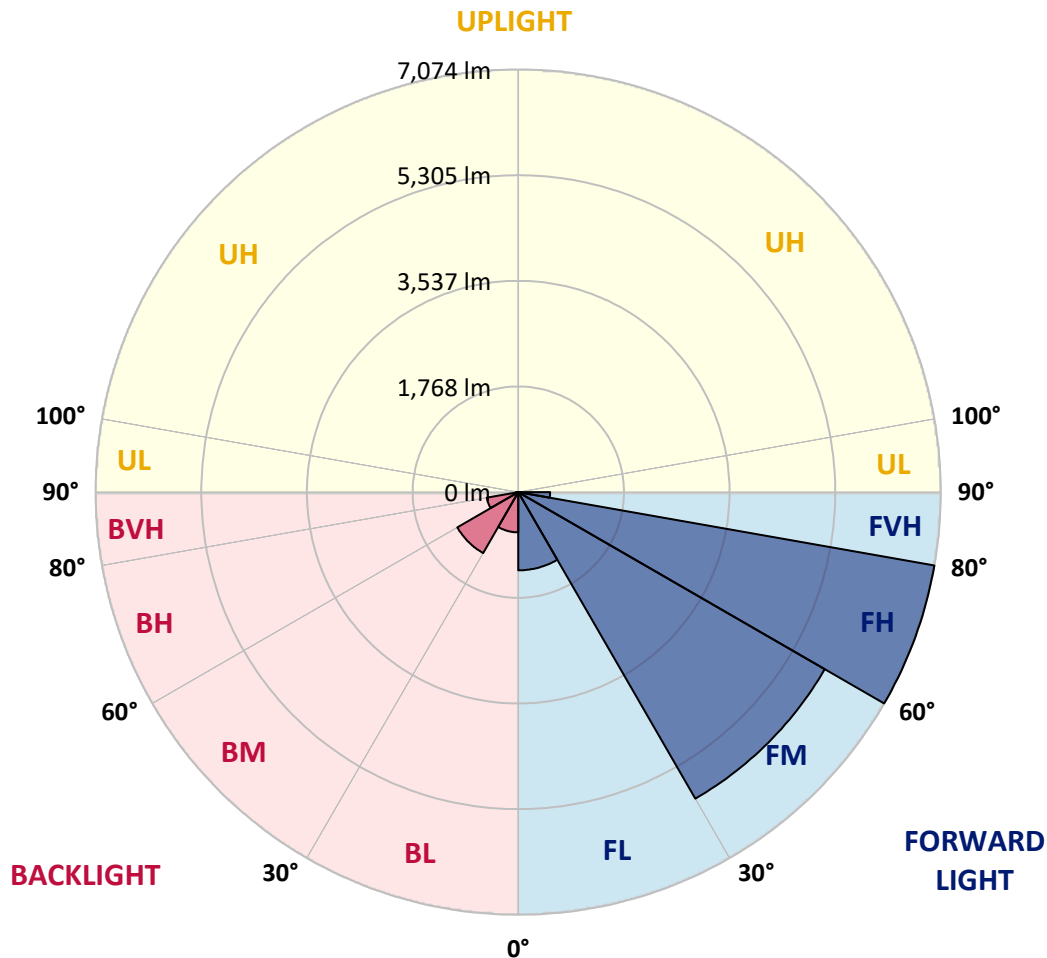


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 CATALOG NUMBER: IFLD-S-SA2E-735-U-SL4

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1308.5	7.6			
FM (30°-60°)	5923.8	34.3			
FH (60°-80°)	7073.7	41.0			G3/7500
FVH (80°-90°)	534.0	3.1			G4/750
BL (0°-30°)	673.1	3.9	B2/1000		
BM (30°-60°)	1178.0	6.8	B2/2500		
BH (60°-80°)	533.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	42.3	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





REPORT NUMBER: P480846

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7
2.5°	3147.1	3114.3	3120.1	3108.5	3120.1	3116.2	3110.4	3081.4	3110.4	3081.4	3073.7
5°	3104.6	3104.6	3123.9	3094.9	3098.8	3079.5	3098.8	3077.5	3058.2	3009.9	2996.4
7.5°	3091.1	3089.1	3091.1	3050.5	3069.8	3058.2	3038.9	3015.7	2977.1	2946.2	2901.7
10°	2998.3	3017.7	2996.4	3008.0	3023.5	2988.7	2986.7	2981.0	2963.6	2923.0	2895.9
12.5°	2948.1	2981.0	2992.5	2982.9	2996.4	3000.3	2988.7	2981.0	2959.7	2932.7	2855.4
15°	2969.4	2930.7	2963.6	3027.3	3013.8	3023.5	3025.4	3017.7	3008.0	2957.8	2907.5
17.5°	2975.2	2952.0	3021.5	3035.0	3052.4	3087.2	3064.0	3062.1	3025.4	2990.6	2917.2
20°	2988.7	2979.0	3035.0	3106.5	3108.5	3114.3	3125.8	3096.9	3077.5	3017.7	2905.6
22.5°	3038.9	3071.8	3123.9	3154.8	3172.2	3176.1	3176.1	3118.1	3096.9	3048.6	2959.7
25°	3189.6	3154.8	3228.2	3264.9	3239.8	3234.0	3220.5	3168.3	3145.2	3102.7	2984.8
27.5°	3299.7	3297.8	3340.3	3390.5	3322.9	3336.4	3288.1	3272.7	3220.5	3197.3	3029.3
30°	3450.4	3492.9	3491.0	3506.4	3417.6	3433.0	3371.2	3342.2	3313.2	3326.8	3160.6
32.5°	3643.6	3628.1	3653.3	3641.7	3552.8	3566.3	3492.9	3448.5	3458.1	3498.7	3340.3
35°	3767.2	3751.8	3761.4	3761.4	3734.4	3718.9	3688.0	3630.1	3676.4	3751.8	3541.2
37.5°	3900.5	3919.9	3975.9	3964.3	3929.5	3929.5	3925.7	3885.1	3945.0	4130.4	3861.9
40°	4018.4	4070.6	4105.3	4128.5	4169.1	4169.1	4201.9	4178.7	4286.9	4584.4	4254.1
42.5°	4142.0	4144.0	4333.3	4350.7	4441.5	4480.1	4505.2	4524.6	4727.4	5059.7	4673.3
45°	4300.5	4310.1	4476.3	4609.6	4750.6	4764.1	4858.8	4922.5	5171.8	5579.4	5129.2
47.5°	4509.1	4497.5	4675.2	4887.8	5063.6	5156.3	5270.3	5339.8	5647.0	6143.5	5627.7
50°	4783.4	4748.7	4851.1	5185.3	5392.0	5494.4	5697.2	5813.1	6172.5	6682.5	5969.6
52.5°	5117.7	5059.7	5140.8	5506.0	5737.8	5944.5	6137.7	6267.2	6641.9	7099.8	6222.7
55°	5471.2	5351.4	5374.6	5846.0	6180.2	6375.3	6640.0	6775.2	7157.8	7474.6	6475.8
57.5°	5820.9	5745.5	5699.2	6172.5	6707.6	6895.0	7138.4	7314.3	7638.8	7806.9	6690.2
60°	6114.5	6095.2	6019.9	6678.6	7266.0	7426.3	7681.3	7789.5	8034.9	8114.1	6694.1
62.5°	6356.0	6290.3	6410.1	7086.3	7833.9	8015.5	8295.7	8305.3	8479.2	8305.3	6497.0
65°	6545.3	6549.2	6740.5	7578.9	8490.8	8759.3	8985.4	8960.2	8848.2	8191.3	6031.5
67.5°	6717.3	6790.7	7070.8	8119.9	9335.0	9588.1	9839.3	9507.0	8948.7	7658.1	5121.5
70°	6852.5	6925.9	7517.1	8778.6	10330.0	10700.9	10756.9	9723.4	8486.9	6487.4	3863.8
72.5°	6837.1	6970.4	7770.2	9304.1	11212.9	11533.6	11081.5	9114.8	7070.8	4522.6	2254.6
73°	6869.9	6935.6	7748.9	9451.0	11481.4	11641.8	10930.8	8923.5	6669.0	4057.0	1906.8
75°	6236.2	6458.4	7364.5	9211.4	11193.5	11164.6	10065.3	7436.0	4740.9	2130.9	923.5
77.5°	4613.4	4754.5	5803.5	7575.1	9188.2	9002.7	7592.4	4752.5	2250.7	790.2	498.4
80°	2254.6	2364.7	3075.6	4373.9	6008.3	6023.7	4712.0	2472.9	964.0	446.3	340.0
82.5°	1126.3	1192.0	1477.9	1922.3	2955.8	3096.9	2389.8	1406.4	597.0	253.1	193.2
85°	736.1	782.4	909.9	940.8	1253.8	1323.4	1112.8	1097.3	388.3	137.2	156.5
87.5°	488.8	496.5	558.3	475.3	502.3	483.0	537.1	691.6	114.0	58.0	42.5
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°	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7	3073.7
2.5°	3064.0	3037.0	3008.0	2967.4	2938.5	2894.0	2853.4	2836.1	2832.2	2834.1	2814.8
5°	2984.8	2946.2	2888.2	2805.1	2756.9	2683.4	2621.6	2588.8	2554.0	2559.8	2544.3
7.5°	2874.7	2832.2	2743.3	2646.7	2527.0	2422.6	2364.7	2283.5	2237.2	2202.4	2221.7
10°	2839.9	2766.5	2633.2	2499.9	2314.4	2177.3	2044.0	1951.2	1887.5	1825.7	1852.7
12.5°	2822.5	2749.1	2563.7	2366.6	2127.0	1918.4	1731.0	1617.0	1526.2	1472.1	1493.4
15°	2807.1	2716.3	2498.0	2219.8	1951.2	1676.9	1466.3	1315.6	1228.7	1176.5	1182.3
17.5°	2828.3	2698.9	2401.4	2076.8	1758.0	1464.4	1230.6	1074.1	985.3	952.4	944.7
20°	2807.1	2679.6	2306.7	1933.9	1564.9	1261.5	1037.4	908.0	846.2	819.1	813.3
22.5°	2814.8	2633.2	2208.2	1775.4	1385.2	1091.5	908.0	809.5	761.2	747.7	751.5
25°	2851.5	2606.2	2109.7	1601.6	1207.5	966.0	824.9	749.6	714.8	701.3	705.2
27.5°	2878.6	2629.3	2020.8	1437.3	1056.8	853.9	755.4	705.2	682.0	672.3	670.4
30°	2946.2	2642.9	1933.9	1290.5	933.1	780.5	707.1	666.5	651.1	645.3	643.3
32.5°	3046.6	2668.0	1833.4	1155.3	842.3	710.9	668.4	633.7	629.8	624.0	625.9
35°	3210.9	2754.9	1721.3	1039.4	755.4	664.6	627.9	604.7	604.7	604.7	610.5
37.5°	3446.5	2876.6	1620.9	929.3	699.4	624.0	593.1	585.4	581.5	587.3	591.2
40°	3749.9	3023.5	1539.7	842.3	651.1	597.0	569.9	566.1	564.1	562.2	566.1
42.5°	4082.1	3210.9	1470.2	774.7	616.3	568.0	548.7	544.8	537.1	540.9	546.7
45°	4412.5	3442.7	1408.4	720.6	593.1	552.5	525.5	523.6	519.7	517.8	527.4
47.5°	4779.6	3670.6	1389.1	687.8	575.7	529.3	510.0	508.1	496.5	494.6	502.3
50°	5065.5	3838.7	1410.3	672.3	550.6	512.0	498.4	488.8	479.1	469.5	469.5
52.5°	5262.6	3954.6	1425.8	660.7	537.1	488.8	471.4	467.5	457.9	448.2	444.3
55°	5440.3	4024.2	1429.6	662.6	523.6	461.7	450.1	448.2	442.4	427.0	423.1
57.5°	5500.2	3995.2	1352.3	645.3	515.8	444.3	428.9	432.8	425.0	411.5	409.6
60°	5494.4	3794.3	1176.5	622.1	498.4	425.0	405.7	417.3	417.3	401.8	399.9
62.5°	5160.2	3330.6	962.1	577.6	479.1	405.7	384.5	401.8	407.6	398.0	396.0
65°	4466.6	2712.4	803.7	533.2	450.1	384.5	363.2	382.5	392.2	388.3	386.4
67.5°	3695.8	2074.9	668.4	475.3	413.4	355.5	338.1	351.6	357.4	359.3	361.3
70°	2612.0	1381.3	558.3	411.5	363.2	324.6	305.2	307.2	305.2	311.0	311.0
72.5°	1420.0	796.0	454.0	349.7	313.0	282.1	268.5	258.9	258.9	256.9	256.9
73°	1215.2	714.8	432.8	340.0	299.4	274.3	258.9	251.1	251.1	249.2	247.3
75°	682.0	523.6	370.9	291.7	258.9	239.6	228.0	216.4	214.4	214.4	214.4
77.5°	448.2	407.6	295.6	233.8	208.6	191.3	187.4	175.8	175.8	175.8	173.9
80°	336.2	320.7	228.0	177.7	160.3	146.8	143.0	135.2	133.3	125.6	127.5
82.5°	224.1	253.1	166.1	125.6	108.2	100.5	100.5	98.5	92.7	83.1	83.1
85°	177.7	206.7	119.8	77.3	63.8	54.1	56.0	54.1	52.2	42.5	40.6
87.5°	32.8	83.1	34.8	21.3	15.5	9.7	9.7	5.8	3.9	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)