

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: P480867

Luminaire Tested: **IFLD-M-SA4A-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480867
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

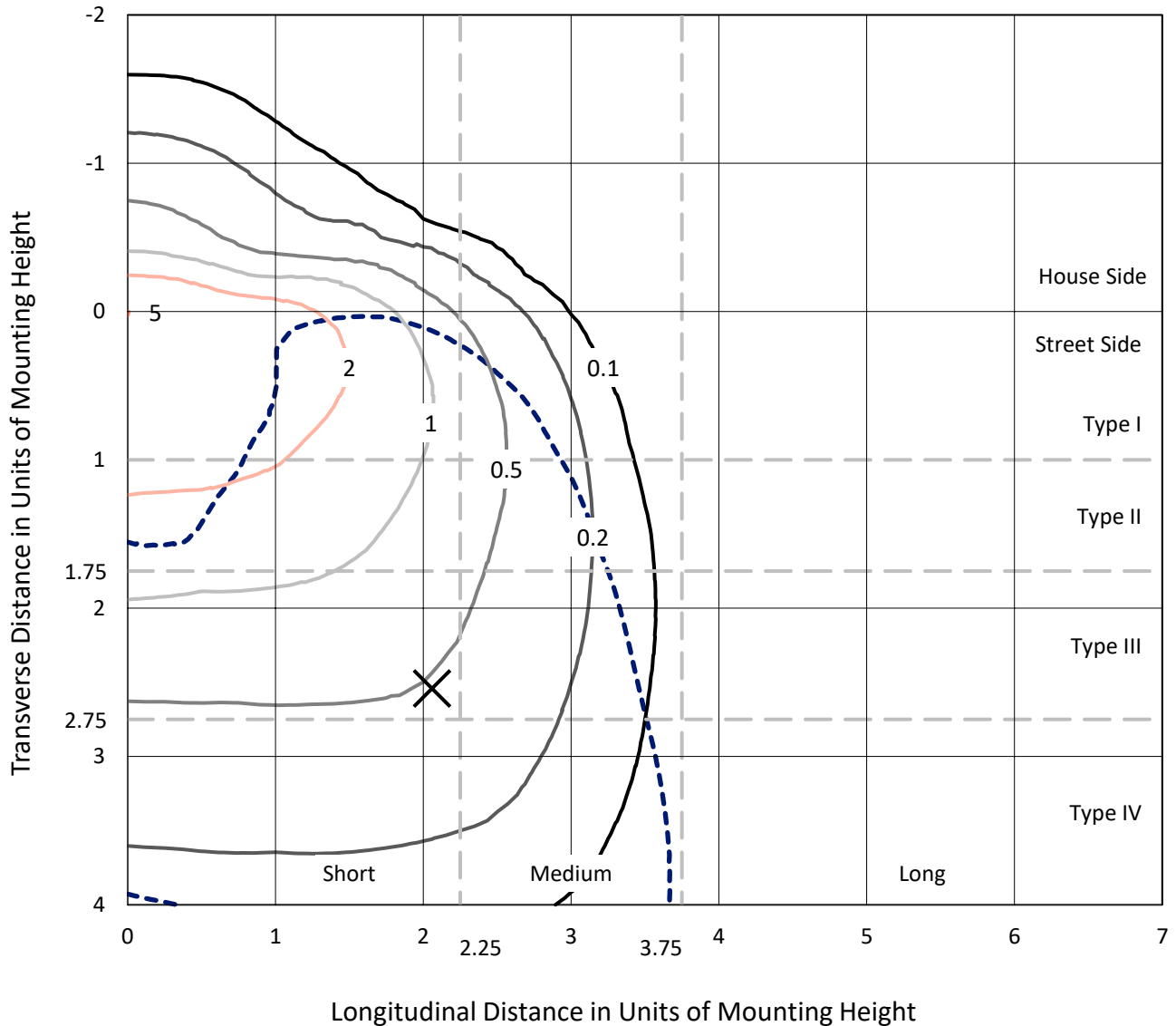
Lumens per Lamp: N/A
Luminaire Lumens: 17618.4 lumens
Efficiency: N/A
Efficacy: 137.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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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 CATALOG NUMBER: IFLD-M-SA4A-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

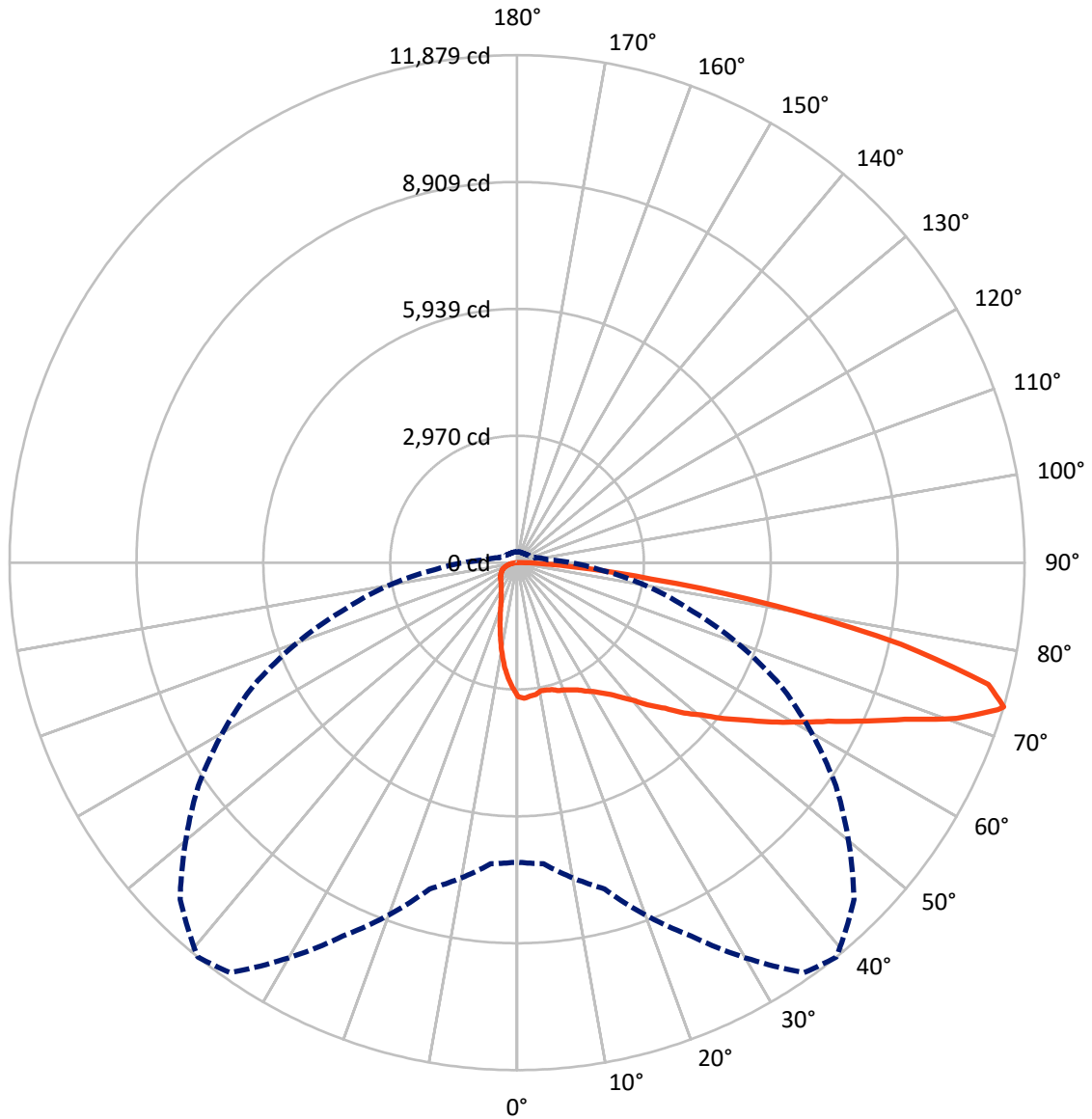
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	2476.7	0.0	2476.7
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	15141.7	0.0	15141.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	17618.4	0.0	17618.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.2	1.5
10°-20°	692.1	3.9
20°-30°	1057.6	6.0
30°-40°	1542.0	8.8
40°-50°	2330.1	13.2
50°-60°	3374.1	19.2
60°-70°	4287.0	24.3
70°-80°	3475.3	19.7
80°-90°	588.0	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°	17618.4	100.0
0°-180°	17618.4	100.0

Coefficient of Utilization



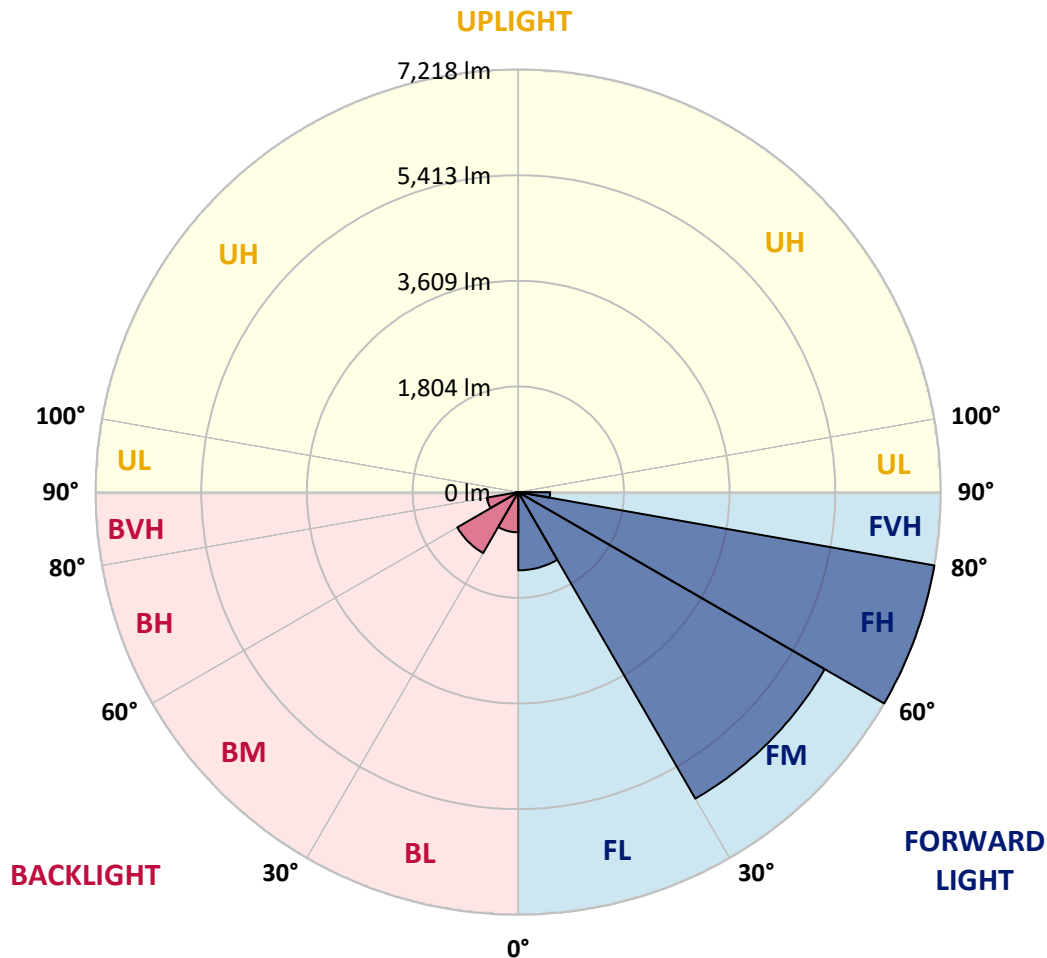
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1335.1	7.6			
FM (30°-60°)	6044.2	34.3			
FH (60°-80°)	7217.5	41.0			G3/7500
FVH (80°-90°)	544.9	3.1			G4/750
BL (0°-30°)	686.8	3.9	B2/1000		
BM (30°-60°)	1202.0	6.8	B2/2500		
BH (60°-80°)	544.7	3.1	B2/1000		G2/1000
BVH (80°-90°)	43.1	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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CATALOG NUMBER: IFLD-M-SA4A-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2
2.5°	3211.1	3177.6	3183.5	3171.7	3183.5	3179.5	3173.6	3144.1	3173.6	3144.1	3136.2
5°	3167.7	3167.7	3187.4	3157.9	3161.8	3142.1	3161.8	3140.1	3120.4	3071.1	3057.3
7.5°	3153.9	3152.0	3153.9	3112.5	3132.2	3120.4	3100.7	3077.0	3037.6	3006.1	2960.7
10°	3059.3	3079.0	3057.3	3069.2	3084.9	3049.4	3047.5	3041.6	3023.8	2982.4	2954.8
12.5°	3008.1	3041.6	3053.4	3043.5	3057.3	3061.3	3049.4	3041.6	3019.9	2992.3	2913.4
15°	3029.7	2990.3	3023.8	3088.9	3075.1	3084.9	3086.9	3079.0	3069.2	3017.9	2966.7
17.5°	3035.6	3012.0	3083.0	3096.8	3114.5	3150.0	3126.3	3124.4	3086.9	3051.4	2976.5
20°	3049.4	3039.6	3096.8	3169.7	3171.7	3177.6	3189.4	3159.8	3140.1	3079.0	2964.7
22.5°	3100.7	3134.2	3187.4	3219.0	3236.7	3240.7	3240.7	3181.5	3159.8	3110.6	3019.9
25°	3254.5	3219.0	3293.9	3331.3	3305.7	3299.8	3286.0	3232.8	3209.1	3165.7	3045.5
27.5°	3366.8	3364.8	3408.2	3459.5	3390.5	3404.3	3355.0	3339.2	3286.0	3262.3	3090.8
30°	3520.6	3563.9	3562.0	3577.7	3487.1	3502.8	3439.7	3410.2	3380.6	3394.4	3224.9
32.5°	3717.7	3701.9	3727.5	3715.7	3625.0	3638.8	3563.9	3518.6	3528.4	3569.8	3408.2
35°	3843.8	3828.1	3837.9	3837.9	3810.3	3794.6	3763.0	3703.9	3751.2	3828.1	3613.2
37.5°	3979.9	3999.6	4056.7	4044.9	4009.4	4009.4	4005.5	3964.1	4025.2	4214.4	3940.4
40°	4100.1	4153.3	4188.8	4212.5	4253.9	4253.9	4287.4	4263.7	4374.1	4677.7	4340.6
42.5°	4226.3	4228.2	4421.4	4439.1	4531.8	4571.2	4596.8	4616.6	4823.5	5162.6	4768.3
45°	4387.9	4397.7	4567.3	4703.3	4847.2	4861.0	4957.6	5022.6	5276.9	5692.8	5233.5
47.5°	4600.8	4589.0	4770.3	4987.1	5166.5	5261.1	5377.4	5448.4	5761.8	6268.4	5742.1
50°	4880.7	4845.2	4949.7	5290.7	5501.6	5606.1	5813.1	5931.3	6298.0	6818.4	6091.0
52.5°	5221.7	5162.6	5245.4	5617.9	5854.5	6065.4	6262.5	6394.6	6777.0	7244.2	6349.2
55°	5582.4	5460.2	5483.9	5964.9	6305.9	6505.0	6775.0	6913.0	7303.3	7626.6	6607.5
57.5°	5939.2	5862.4	5815.0	6298.0	6844.0	7035.2	7283.6	7463.0	7794.1	7965.6	6826.3
60°	6238.9	6219.1	6142.3	6814.4	7413.7	7577.3	7837.5	7947.9	8198.2	8279.0	6830.2
62.5°	6485.3	6418.2	6540.4	7230.4	7993.2	8178.5	8464.3	8474.2	8651.6	8474.2	6629.1
65°	6678.4	6682.4	6877.5	7733.0	8663.4	8937.4	9168.1	9142.4	9028.1	8357.9	6154.1
67.5°	6853.9	6928.8	7214.6	8285.0	9524.8	9783.1	10039.3	9700.3	9130.6	7813.8	5225.7
70°	6991.8	7066.8	7669.9	8957.1	10540.0	10918.5	10975.6	9921.1	8659.5	6619.3	3942.4
72.5°	6976.1	7112.1	7928.2	9493.3	11440.8	11768.1	11306.8	9300.1	7214.6	4614.6	2300.4
73°	7009.6	7076.6	7906.5	9643.1	11714.8	11878.5	11153.1	9105.0	6804.6	4139.5	1945.6
75°	6363.0	6589.7	7514.2	9398.7	11421.1	11391.6	10270.0	7587.2	4837.3	2174.2	942.2
77.5°	4707.2	4851.1	5921.5	7729.1	9375.0	9185.8	7746.8	4849.2	2296.4	806.2	508.6
80°	2300.4	2412.7	3138.2	4462.8	6130.4	6146.2	4807.8	2523.1	983.6	455.3	346.9
82.5°	1149.2	1216.2	1508.0	1961.3	3015.9	3159.8	2438.4	1435.0	609.1	258.2	197.1
85°	751.0	798.3	928.4	960.0	1279.3	1350.3	1135.4	1119.6	396.2	140.0	159.7
87.5°	498.7	506.6	569.7	484.9	512.5	492.8	548.0	705.7	116.3	59.1	43.4
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°	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2	3136.2
2.5°	3126.3	3098.7	3069.2	3027.8	2998.2	2952.9	2911.5	2893.7	2889.8	2891.8	2872.0
5°	3045.5	3006.1	2946.9	2862.2	2812.9	2738.0	2674.9	2641.4	2605.9	2611.8	2596.1
7.5°	2933.1	2889.8	2799.1	2700.5	2578.3	2471.9	2412.7	2330.0	2282.7	2247.2	2266.9
10°	2897.7	2822.8	2686.7	2550.7	2361.5	2221.5	2085.5	1990.9	1925.9	1862.8	1890.4
12.5°	2879.9	2805.0	2615.8	2414.7	2170.3	1957.4	1766.2	1649.9	1557.2	1502.1	1523.7
15°	2864.2	2771.5	2548.8	2264.9	1990.9	1711.0	1496.1	1342.4	1253.7	1200.5	1206.4
17.5°	2885.8	2753.8	2450.2	2119.0	1793.8	1494.2	1255.7	1096.0	1005.3	971.8	963.9
20°	2864.2	2734.1	2353.6	1973.2	1596.7	1287.2	1058.5	926.5	863.4	835.8	829.9
22.5°	2872.0	2686.7	2253.1	1811.5	1413.4	1113.7	926.5	825.9	776.7	762.9	766.8
25°	2909.5	2659.1	2152.6	1634.1	1232.0	985.6	841.7	764.8	729.3	715.5	719.5
27.5°	2937.1	2682.8	2061.9	1466.6	1078.2	871.3	770.7	719.5	695.8	686.0	684.0
30°	3006.1	2696.6	1973.2	1316.8	952.1	796.4	721.5	680.1	664.3	658.4	656.4
32.5°	3108.6	2722.2	1870.7	1178.8	859.4	725.4	682.0	646.6	642.6	636.7	638.7
35°	3276.1	2810.9	1756.3	1060.5	770.7	678.1	640.6	617.0	617.0	617.0	622.9
37.5°	3516.6	2935.1	1653.8	948.1	713.6	636.7	605.2	597.3	593.3	599.2	603.2
40°	3826.1	3084.9	1571.0	859.4	664.3	609.1	581.5	577.6	575.6	573.6	577.6
42.5°	4165.1	3276.1	1500.1	790.5	628.8	579.5	559.8	555.9	548.0	551.9	557.8
45°	4502.2	3512.7	1437.0	735.3	605.2	563.8	536.2	534.2	530.3	528.3	538.1
47.5°	4876.8	3745.3	1417.3	701.7	587.4	540.1	520.4	518.4	506.6	504.6	512.5
50°	5168.5	3916.8	1439.0	686.0	561.8	522.4	508.6	498.7	488.9	479.0	479.0
52.5°	5369.6	4035.0	1454.7	674.2	548.0	498.7	481.0	477.0	467.2	457.3	453.4
55°	5550.9	4106.0	1458.7	676.1	534.2	471.1	459.3	457.3	451.4	435.6	431.7
57.5°	5612.0	4076.4	1379.8	658.4	526.3	453.4	437.6	441.5	433.7	419.9	417.9
60°	5606.1	3871.4	1200.5	634.7	508.6	433.7	414.0	425.8	425.8	410.0	408.0
62.5°	5265.1	3398.4	981.7	589.4	488.9	414.0	392.3	410.0	415.9	406.1	404.1
65°	4557.4	2767.6	820.0	544.1	459.3	392.3	370.6	390.3	400.2	396.2	394.2
67.5°	3770.9	2117.1	682.0	484.9	421.8	362.7	345.0	358.8	364.7	366.6	368.6
70°	2665.1	1409.4	569.7	419.9	370.6	331.2	311.4	313.4	311.4	317.4	317.4
72.5°	1448.8	812.1	463.2	356.8	319.3	287.8	274.0	264.1	264.1	262.2	262.2
73°	1239.9	729.3	441.5	346.9	305.5	279.9	264.1	256.3	256.3	254.3	252.3
75°	695.8	534.2	378.5	297.7	264.1	244.4	232.6	220.8	218.8	218.8	218.8
77.5°	457.3	415.9	301.6	238.5	212.9	195.1	191.2	179.4	179.4	179.4	177.4
80°	343.0	327.2	232.6	181.4	163.6	149.8	145.9	138.0	136.0	128.1	130.1
82.5°	228.7	258.2	169.5	128.1	110.4	102.5	102.5	100.5	94.6	84.8	84.8
85°	181.4	210.9	122.2	78.8	65.0	55.2	57.2	55.2	53.2	43.4	41.4
87.5°	33.5	84.8	35.5	21.7	15.8	9.9	9.9	5.9	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)