

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: P480810

Luminaire Tested: **IFLD-S-SA3C-730-U-SL4**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480810  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-730-U-SL4  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

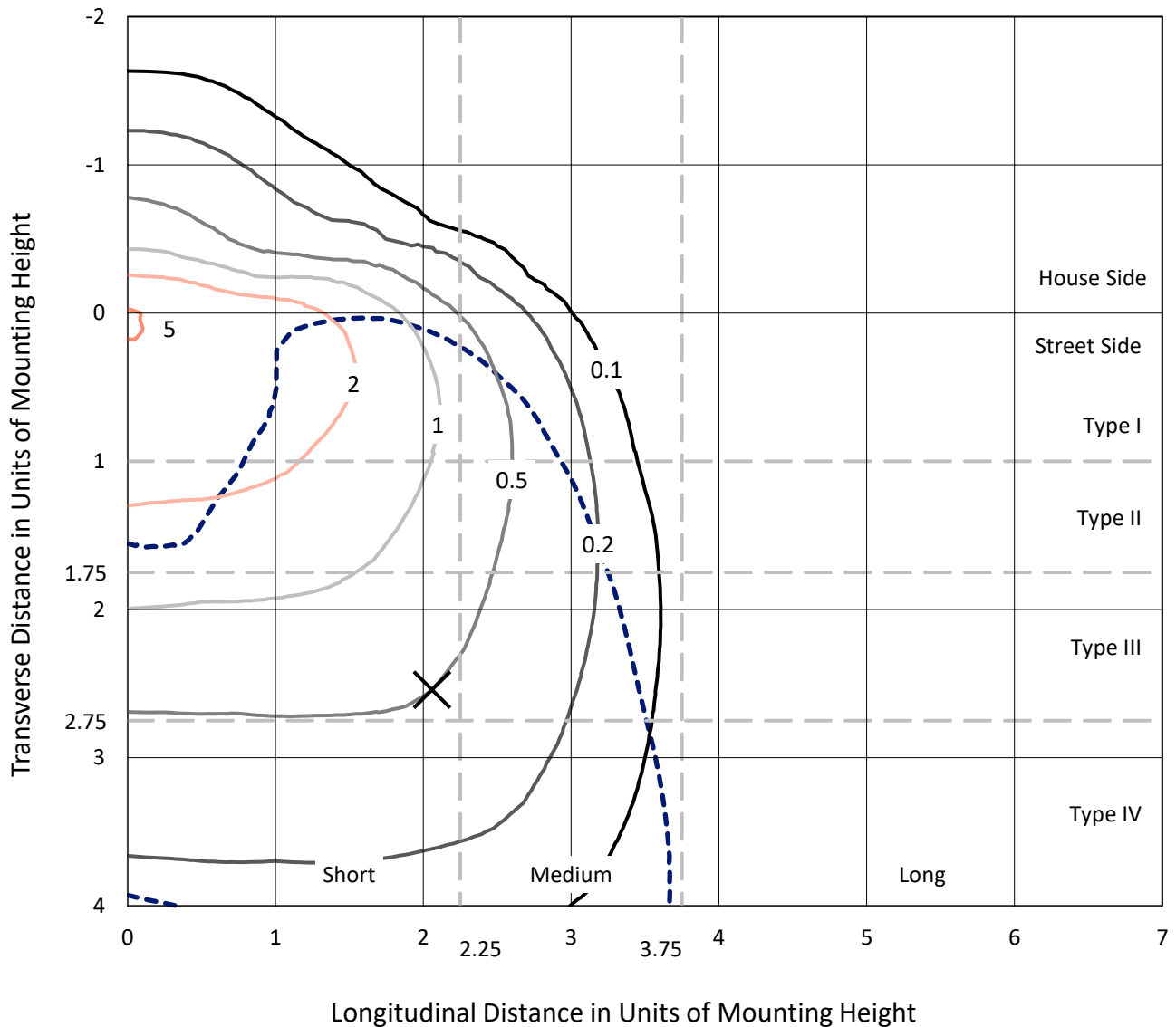
Lumens per Lamp: N/A  
Luminaire Lumens: 18657.2 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

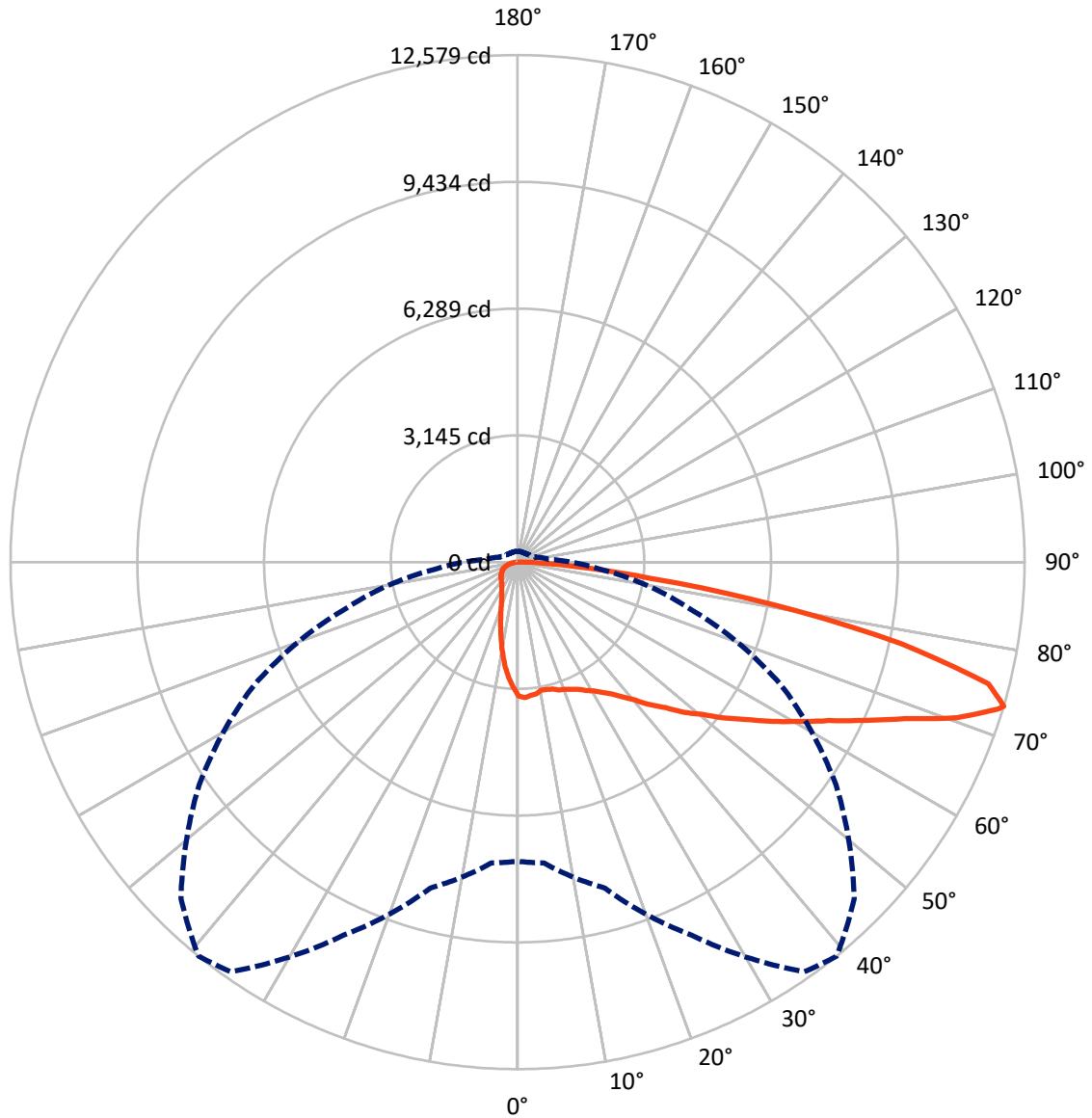
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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
<b>House Side</b>	Lumens	2622.7	0.0	2622.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	16034.5	0.0	16034.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	18657.2	0.0	18657.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.3	1.5
10°-20°	732.9	3.9
20°-30°	1119.9	6.0
30°-40°	1632.9	8.8
40°-50°	2467.5	13.2
50°-60°	3573.1	19.2
60°-70°	4539.8	24.3
70°-80°	3680.2	19.7
80°-90°	622.7	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°	18657.2	100.0
0°-180°	18657.2	100.0

**Coefficient of Utilization**



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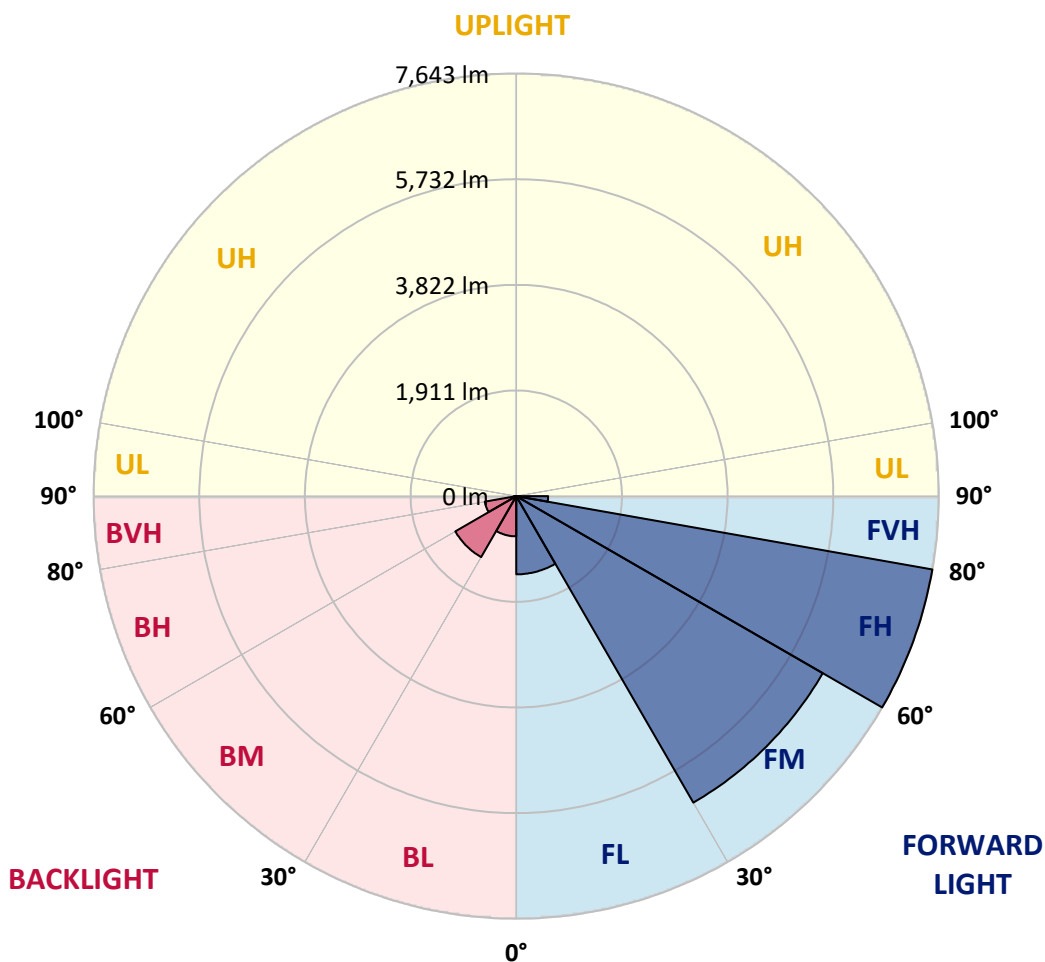
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.8	7.6			
FM (30°-60°)	6400.6	34.3			
FH (60°-80°)	7643.1	41.0			G4/12000
FVH (80°-90°)	577.0	3.1			G4/750
BL (0°-30°)	727.3	3.9	B2/1000		
BM (30°-60°)	1272.9	6.8	B2/2500		
BH (60°-80°)	576.8	3.1	B2/1000		G2/1000
BVH (80°-90°)	45.7	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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1
2.5°	3400.4	3364.9	3371.2	3358.7	3371.2	3367.0	3360.8	3329.4	3360.8	3329.4	3321.1
5°	3354.5	3354.5	3375.4	3344.1	3348.2	3327.4	3348.2	3325.3	3304.4	3252.2	3237.6
7.5°	3339.9	3337.8	3339.9	3296.0	3316.9	3304.4	3283.5	3258.5	3216.7	3183.3	3135.3
10°	3239.7	3260.6	3237.6	3250.1	3266.8	3229.2	3227.2	3220.9	3202.1	3158.3	3129.1
12.5°	3185.4	3220.9	3233.4	3223.0	3237.6	3241.8	3229.2	3220.9	3197.9	3168.7	3085.2
15°	3208.4	3166.6	3202.1	3271.0	3256.4	3266.8	3268.9	3260.6	3250.1	3195.8	3141.6
17.5°	3214.6	3189.6	3264.7	3279.3	3298.1	3335.7	3310.7	3308.6	3268.9	3231.3	3152.0
20°	3229.2	3218.8	3279.3	3356.6	3358.7	3364.9	3377.5	3346.1	3325.3	3260.6	3139.5
22.5°	3283.5	3319.0	3375.4	3408.8	3427.6	3431.7	3431.7	3369.1	3346.1	3294.0	3197.9
25°	3446.3	3408.8	3488.1	3527.7	3500.6	3494.4	3479.7	3423.4	3398.3	3352.4	3225.1
27.5°	3565.3	3563.2	3609.2	3663.4	3590.4	3605.0	3552.8	3536.1	3479.7	3454.7	3273.1
30°	3728.1	3774.1	3772.0	3788.7	3692.7	3709.4	3642.6	3611.2	3579.9	3594.5	3415.0
32.5°	3936.9	3920.2	3947.3	3934.8	3838.8	3853.4	3774.1	3726.1	3736.5	3780.3	3609.2
35°	4070.5	4053.8	4064.2	4064.2	4035.0	4018.3	3984.9	3922.3	3972.4	4053.8	3826.3
37.5°	4214.5	4235.4	4295.9	4283.4	4245.8	4245.8	4241.6	4197.8	4262.5	4462.9	4172.8
40°	4341.8	4398.2	4435.8	4460.8	4504.7	4504.7	4540.2	4515.1	4632.0	4953.5	4596.5
42.5°	4475.4	4477.5	4682.1	4700.9	4799.0	4840.7	4867.9	4888.8	5107.9	5467.0	5049.5
45°	4646.6	4657.0	4836.6	4980.6	5133.0	5147.6	5249.9	5318.8	5588.0	6028.5	5542.1
47.5°	4872.1	4859.5	5051.6	5281.2	5471.1	5571.3	5694.5	5769.6	6101.5	6638.0	6080.7
50°	5168.5	5130.9	5241.5	5602.7	5826.0	5936.6	6155.8	6281.1	6669.3	7220.4	6450.1
52.5°	5529.6	5467.0	5554.6	5949.2	6199.7	6423.0	6631.8	6771.6	7176.6	7671.3	6723.6
55°	5911.6	5782.2	5807.2	6316.6	6677.7	6888.5	7174.5	7320.6	7733.9	8076.3	6997.1
57.5°	6289.4	6208.0	6157.9	6669.3	7247.5	7450.0	7713.0	7903.0	8253.7	8435.3	7228.8
60°	6606.7	6585.8	6504.4	7216.2	7850.8	8024.1	8299.6	8416.5	8681.6	8767.2	7232.9
62.5°	6867.6	6796.7	6926.1	7656.7	8464.5	8660.7	8963.4	8973.8	9161.7	8973.8	7020.0
65°	7072.2	7076.4	7283.0	8189.0	9174.2	9464.4	9708.6	9681.5	9560.4	8850.7	6516.9
67.5°	7258.0	7337.3	7640.0	8773.5	10086.4	10359.9	10631.3	10272.2	9669.0	8274.6	5533.8
70°	7404.1	7483.4	8122.2	9485.3	11161.5	11562.3	11622.8	10506.0	9170.1	7009.6	4174.9
72.5°	7387.4	7531.4	8395.6	10053.0	12115.4	12461.9	11973.5	9848.5	7640.0	4886.7	2436.0
73°	7422.9	7493.9	8372.7	10211.7	12405.6	12578.8	11810.7	9641.8	7205.8	4383.6	2060.3
75°	6738.2	6978.3	7957.3	9952.8	12094.5	12063.2	10875.5	8034.5	5122.5	2302.4	997.8
77.5°	4984.8	5137.2	6270.6	8184.8	9927.8	9727.4	8203.6	5135.1	2431.9	853.8	538.6
80°	2436.0	2555.0	3323.2	4725.9	6491.9	6508.6	5091.2	2671.9	1041.6	482.2	367.4
82.5°	1217.0	1287.9	1596.9	2077.0	3193.8	3346.1	2582.1	1519.6	645.0	273.5	208.7
85°	795.3	845.4	983.2	1016.6	1354.7	1429.9	1202.4	1185.7	419.6	148.2	169.1
87.5°	528.1	536.5	603.3	513.5	542.7	521.9	580.3	747.3	123.2	62.6	45.9
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°	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1	3321.1
2.5°	3310.7	3281.4	3250.1	3206.3	3175.0	3127.0	3083.1	3064.3	3060.2	3062.3	3041.4
5°	3225.1	3183.3	3120.7	3030.9	2978.8	2899.4	2832.6	2797.2	2759.6	2765.8	2749.1
7.5°	3106.1	3060.2	2964.1	2859.8	2730.4	2617.6	2555.0	2467.3	2417.2	2379.7	2400.5
10°	3068.5	2989.2	2845.2	2701.1	2500.7	2352.5	2208.5	2108.3	2039.4	1972.6	2001.8
12.5°	3049.7	2970.4	2770.0	2557.1	2298.3	2072.8	1870.3	1747.2	1649.1	1590.6	1613.6
15°	3033.0	2934.9	2699.0	2398.5	2108.3	1811.9	1584.4	1421.5	1327.6	1271.2	1277.5
17.5°	3056.0	2916.1	2594.7	2244.0	1899.6	1582.3	1329.7	1160.6	1064.6	1029.1	1020.8
20°	3033.0	2895.3	2492.4	2089.5	1690.8	1363.1	1120.9	981.1	914.3	885.1	878.8
22.5°	3041.4	2845.2	2385.9	1918.3	1496.7	1179.4	981.1	874.6	822.4	807.8	812.0
25°	3081.0	2815.9	2279.5	1730.5	1304.6	1043.7	891.3	809.9	772.3	757.7	761.9
27.5°	3110.3	2841.0	2183.4	1553.0	1141.8	922.6	816.2	761.9	736.9	726.4	724.3
30°	3183.3	2855.6	2089.5	1394.4	1008.2	843.3	764.0	720.2	703.5	697.2	695.1
32.5°	3291.9	2882.7	1981.0	1248.3	910.1	768.2	722.2	684.7	680.5	674.2	676.3
35°	3469.3	2976.7	1859.9	1123.0	816.2	718.1	678.4	653.4	653.4	653.4	659.6
37.5°	3724.0	3108.2	1751.4	1004.1	755.6	674.2	640.8	632.5	628.3	634.6	638.8
40°	4051.7	3266.8	1663.7	910.1	703.5	645.0	615.8	611.6	609.5	607.4	611.6
42.5°	4410.7	3469.3	1588.5	837.1	665.9	613.7	592.8	588.7	580.3	584.5	590.7
45°	4767.7	3719.8	1521.7	778.6	640.8	597.0	567.8	565.7	561.5	559.4	569.9
47.5°	5164.3	3966.1	1500.9	743.1	622.1	572.0	551.1	549.0	536.5	534.4	542.7
50°	5473.2	4147.7	1523.8	726.4	594.9	553.2	538.6	528.1	517.7	507.2	507.2
52.5°	5686.1	4273.0	1540.5	713.9	580.3	528.1	509.3	505.2	494.7	484.3	480.1
55°	5878.2	4348.1	1544.7	716.0	565.7	498.9	486.4	484.3	478.0	461.3	457.1
57.5°	5942.9	4316.8	1461.2	697.2	557.3	480.1	463.4	467.6	459.2	444.6	442.5
60°	5936.6	4099.7	1271.2	672.2	538.6	459.2	438.4	450.9	450.9	434.2	432.1
62.5°	5575.5	3598.7	1039.5	624.1	517.7	438.4	415.4	434.2	440.4	430.0	427.9
65°	4826.1	2930.7	868.4	576.1	486.4	415.4	392.4	413.3	423.7	419.6	417.5
67.5°	3993.2	2241.9	722.2	513.5	446.7	384.1	365.3	379.9	386.2	388.3	390.3
70°	2822.2	1492.5	603.3	444.6	392.4	350.7	329.8	331.9	329.8	336.1	336.1
72.5°	1534.3	860.0	490.5	377.8	338.2	304.8	290.2	279.7	279.7	277.6	277.6
73°	1313.0	772.3	467.6	367.4	323.6	296.4	279.7	271.4	271.4	269.3	267.2
75°	736.9	565.7	400.8	315.2	279.7	258.8	246.3	233.8	231.7	231.7	231.7
77.5°	484.3	440.4	319.4	252.6	225.4	206.7	202.5	190.0	190.0	190.0	187.9
80°	363.2	346.5	246.3	192.0	173.3	158.6	154.5	146.1	144.0	135.7	137.8
82.5°	242.1	273.5	179.5	135.7	116.9	108.5	108.5	106.5	100.2	89.8	89.8
85°	192.0	223.4	129.4	83.5	68.9	58.4	60.5	58.4	56.4	45.9	43.8
87.5°	35.5	89.8	37.6	23.0	16.7	10.4	10.4	6.3	4.2	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)