

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: P483371

Luminaire Tested: **IFLD-L-SA7D-827-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483371  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-827-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

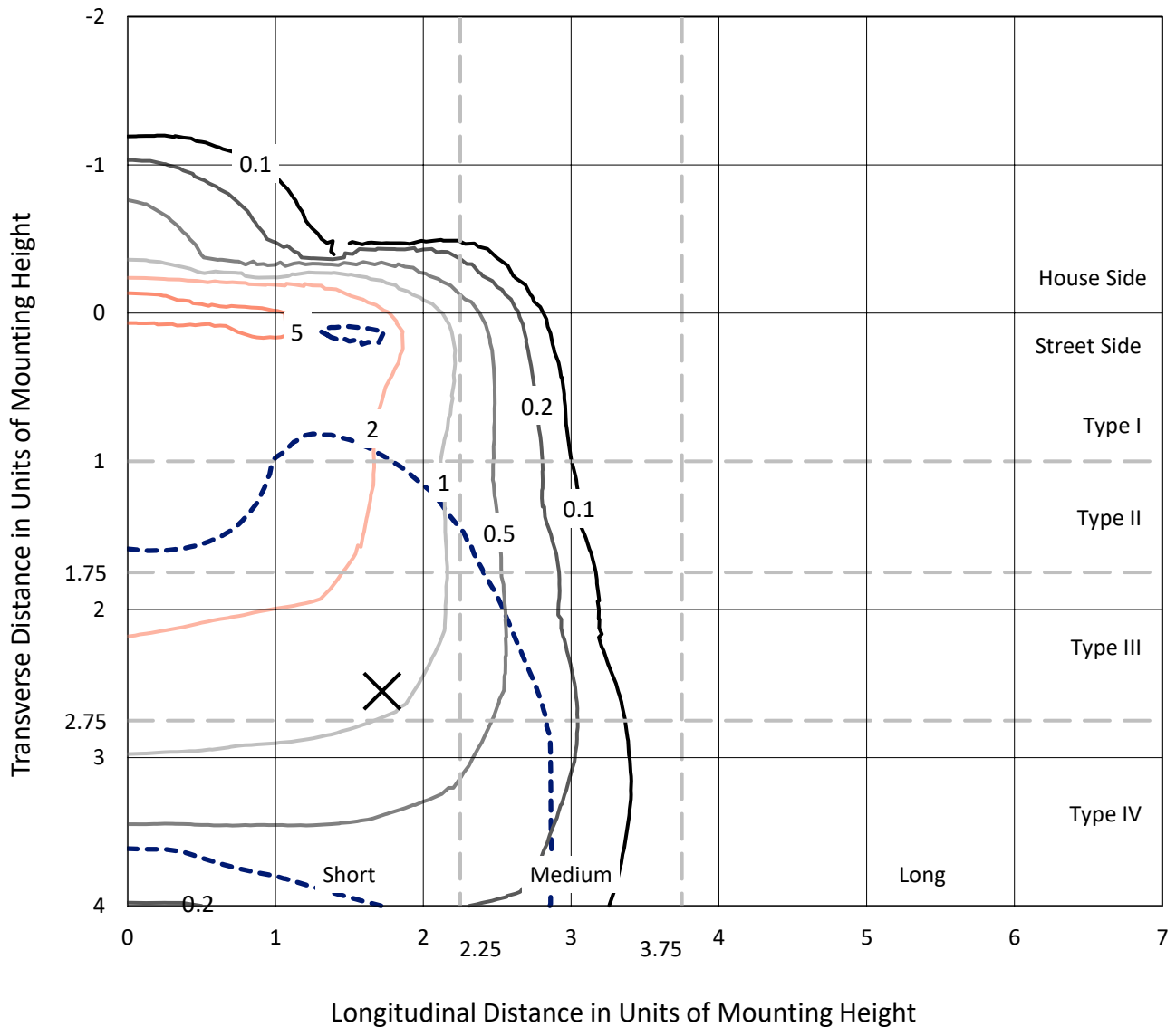
Lumens per Lamp: N/A  
Luminaire Lumens: 25928.1 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6  
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

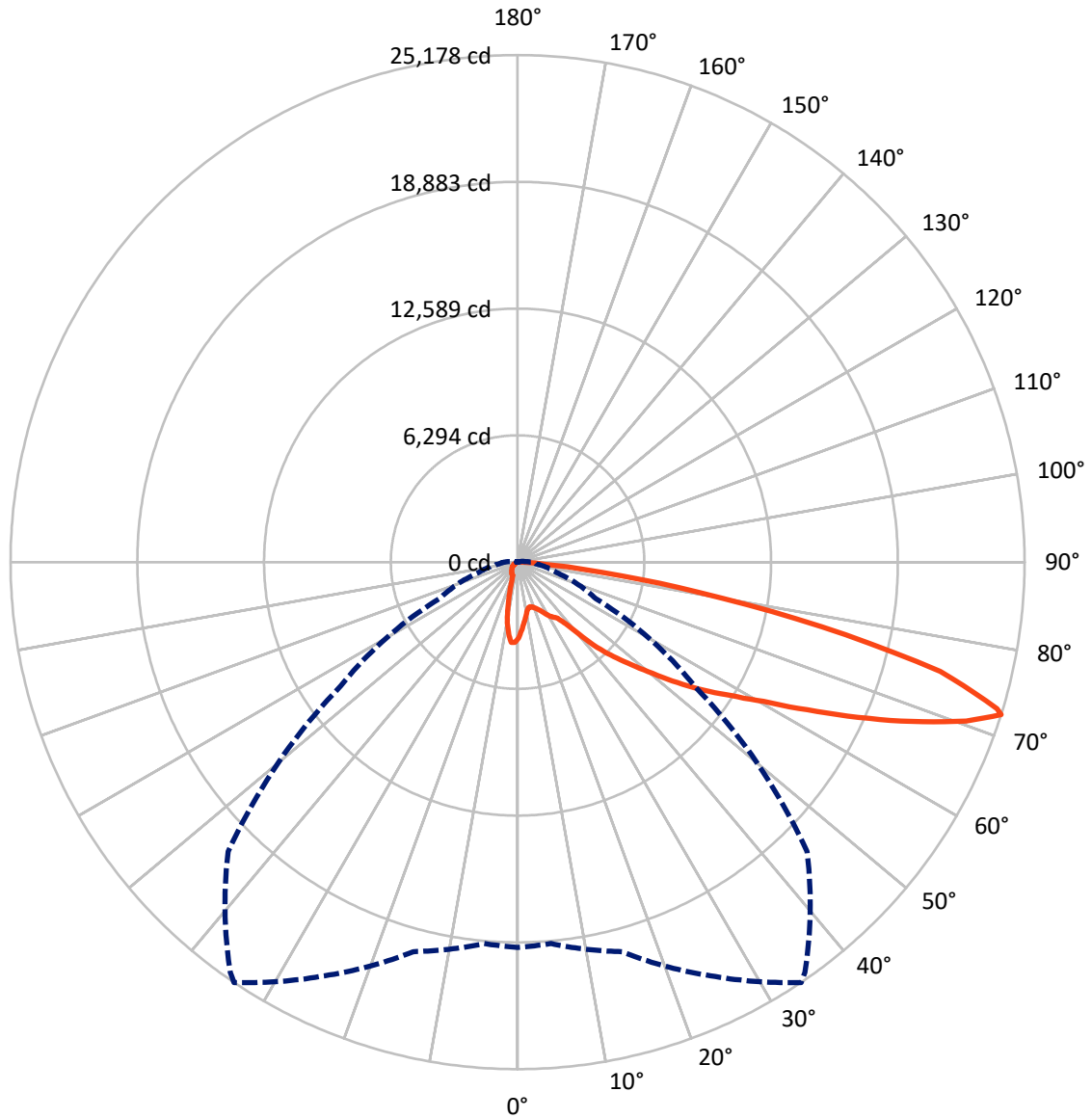
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2654.4	0.0	2654.4
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	23273.7	0.0	23273.7
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	25928.1	0.0	25928.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.3	1.3
10°-20°	745.5	2.9
20°-30°	1125.3	4.3
30°-40°	1826.1	7.0
40°-50°	3433.9	13.2
50°-60°	5614.4	21.7
60°-70°	7463.6	28.8
70°-80°	4998.3	19.3
80°-90°	391.7	1.5
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°	25928.1	100.0
0°-180°	25928.1	100.0

**Coefficient of Utilization**



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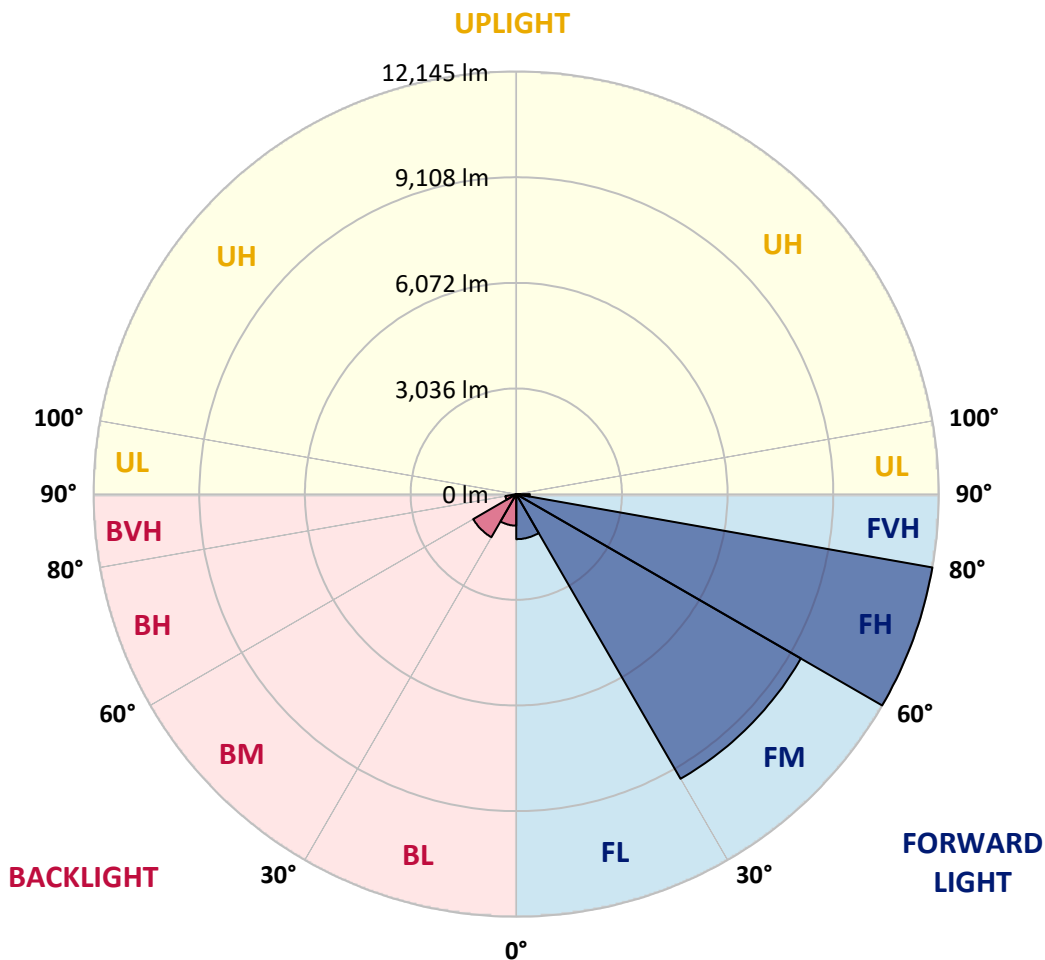
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.4	5.0			
FM (30°-60°)	9445.6	36.4			
FH (60°-80°)	12144.5	46.8			G5
FVH (80°-90°)	389.2	1.5			G3/500
BL (0°-30°)	905.7	3.5	B2/1000		
BM (30°-60°)	1428.9	5.5	B2/2500		
BH (60°-80°)	317.4	1.2	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3
2.5°	3354.7	3347.3	3369.7	3407.2	3444.7	3429.7	3500.9	3575.9	3628.4	3699.6	3785.8
5°	2931.2	2949.9	2972.4	3047.4	3096.1	3107.4	3238.6	3336.0	3497.2	3662.1	3815.8
7.5°	2545.1	2567.6	2612.6	2695.0	2796.2	2822.5	2953.7	3148.6	3358.5	3575.9	3827.0
10°	2264.0	2286.5	2335.2	2387.7	2522.6	2522.6	2702.5	2972.4	3246.0	3500.9	3830.8
12.5°	2204.0	2215.3	2211.5	2252.7	2339.0	2357.7	2533.9	2830.0	3148.6	3474.7	3890.8
15°	2275.2	2282.7	2245.2	2222.8	2297.7	2316.5	2481.4	2743.8	3084.9	3489.7	3988.2
17.5°	2417.7	2391.4	2316.5	2282.7	2346.5	2357.7	2511.4	2740.0	3077.4	3530.9	4100.7
20°	2500.1	2530.1	2398.9	2335.2	2425.2	2440.2	2605.1	2800.0	3114.9	3602.1	4258.1
22.5°	2646.3	2661.3	2485.1	2443.9	2530.1	2530.1	2717.5	2919.9	3204.8	3718.3	4445.5
25°	2852.5	2833.7	2627.6	2586.3	2668.8	2702.5	2890.0	3111.1	3343.5	3827.0	4617.9
27.5°	3013.7	3024.9	2856.2	2747.5	2886.2	2908.7	3111.1	3317.3	3448.5	3917.0	4827.8
30°	3253.5	3231.1	3051.1	2927.4	3099.9	3103.6	3298.5	3512.2	3650.9	4078.2	5142.7
32.5°	3538.4	3493.4	3287.3	3111.1	3249.8	3283.5	3482.2	3793.3	3965.7	4381.8	5630.0
35°	4141.9	4033.2	3695.8	3422.2	3433.5	3448.5	3755.8	4201.9	4400.5	4767.9	6282.2
37.5°	5022.8	4977.8	4595.4	4074.4	3875.8	3830.8	4175.6	4741.6	4989.0	5277.6	7129.3
40°	5896.1	5832.4	5476.3	5082.7	4722.9	4632.9	4805.4	5457.6	5682.5	5986.1	7998.9
42.5°	6866.9	6754.5	6334.7	6016.1	5791.2	5693.7	5626.2	6357.2	6612.0	6818.2	8849.8
45°	7849.0	7665.3	7058.1	6814.5	6694.5	6642.0	6634.5	7489.1	7642.8	7684.1	9794.4
47.5°	8711.1	8512.4	7961.4	7687.8	7597.9	7582.9	8002.7	8793.6	8673.6	8564.9	10847.6
50°	9374.6	9247.1	8849.8	8752.3	8684.9	8658.6	9640.7	10135.5	9580.7	9389.5	11773.5
52.5°	10401.6	10116.7	9666.9	9700.7	9936.8	9940.6	11301.2	11409.9	10334.1	9955.5	12646.8
55°	11222.5	11035.1	10667.7	10619.0	11241.2	11308.7	12789.3	12377.0	10753.9	10495.3	12969.2
57.5°	12189.5	12103.3	11837.2	11844.7	12496.9	12639.3	14112.4	13194.1	11102.5	10843.9	13017.9
60°	13587.7	13340.3	13201.6	13265.3	14033.7	14172.4	15394.4	13782.6	11271.2	11072.5	12898.0
62.5°	15132.0	14843.4	14693.4	15019.5	16140.3	16162.8	16368.9	14303.6	11166.3	11132.5	12125.8
65°	16991.1	16706.3	16586.3	17242.3	18572.9	18490.5	17737.1	14524.8	10832.7	10529.0	10098.0
67.5°	18842.8	18670.4	18423.0	19468.8	21125.5	21125.5	19157.7	14442.3	9959.3	8452.5	6604.5
70°	19719.9	19839.9	20233.4	21875.2	23633.2	23453.3	20559.6	13494.0	7414.2	4539.2	2597.6
72°	19135.2	19011.5	20027.3	22662.4	25177.5	24881.4	20323.4	10727.7	4284.3	1990.4	903.3
72.5°	18130.6	18246.8	19645.0	22553.7	24888.9	25132.5	19746.2	9895.6	3523.4	1585.5	682.2
75°	11117.5	11316.2	14663.4	19150.2	21687.8	21414.2	15274.4	4715.4	1353.1	674.7	243.6
77.5°	4059.4	4224.4	7114.3	12050.9	15424.4	15251.9	8838.5	1675.5	734.7	502.3	123.7
80°	1057.0	1143.2	2417.7	5558.8	9070.9	9082.2	3699.6	670.9	498.5	412.3	75.0
82.5°	209.9	232.4	742.2	2162.8	4239.4	4183.1	1169.5	359.8	374.8	337.3	52.5
85°	26.2	33.7	157.4	734.7	1371.9	1229.5	288.6	179.9	277.4	262.4	33.7
87.5°	3.7	3.7	37.5	168.7	288.6	281.1	60.0	56.2	123.7	161.2	18.7
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°	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3
2.5°	3834.5	3849.5	3902.0	3947.0	3999.5	4014.5	3992.0	4029.4	3977.0	4007.0	4014.5
5°	3842.0	3928.2	4025.7	4089.4	4074.4	4036.9	4007.0	3905.8	3834.5	3808.3	3864.5
7.5°	3894.5	3992.0	4096.9	4096.9	4014.5	3819.5	3632.1	3452.2	3302.3	3227.3	3291.0
10°	3962.0	4063.2	4171.9	4029.4	3722.1	3366.0	3099.9	2762.5	2533.9	2413.9	2425.2
12.5°	4051.9	4194.4	4231.9	3902.0	3392.2	2863.7	2380.2	1911.6	1694.2	1521.8	1525.6
15°	4168.1	4306.8	4194.4	3624.6	2972.4	2192.8	1611.8	1165.7	993.3	903.3	903.3
17.5°	4321.8	4426.8	4183.1	3369.7	2406.4	1499.3	989.6	787.1	749.7	734.7	734.7
20°	4501.7	4580.5	4074.4	2972.4	1788.0	963.3	727.2	704.7	708.4	700.9	700.9
22.5°	4704.1	4730.4	3950.7	2511.4	1210.7	712.2	678.4	682.2	685.9	678.4	682.2
25°	4917.8	4846.6	3770.8	1971.6	805.9	648.5	656.0	663.5	667.2	670.9	670.9
27.5°	5157.7	5015.3	3519.7	1443.1	629.7	611.0	633.5	656.0	659.7	659.7	656.0
30°	5510.0	5273.9	3276.0	978.3	554.8	569.7	607.2	633.5	652.2	652.2	648.5
32.5°	5956.1	5543.8	2934.9	667.2	513.5	521.0	551.0	603.5	644.7	648.5	637.2
35°	6574.6	5869.9	2578.8	532.3	483.5	487.3	506.0	547.3	618.5	641.0	637.2
37.5°	7226.8	6241.0	2136.5	479.8	461.0	457.3	468.5	502.3	566.0	622.2	626.0
40°	7920.2	6630.8	1671.8	453.5	442.3	434.8	438.6	453.5	502.3	573.5	588.5
42.5°	8572.4	6983.1	1255.7	427.3	423.6	416.1	416.1	419.8	446.1	494.8	502.3
45°	9277.1	7271.7	955.8	408.6	397.3	401.1	386.1	378.6	397.3	401.1	397.3
47.5°	9936.8	7560.4	764.7	386.1	374.8	374.8	356.1	341.1	341.1	307.4	303.6
50°	10555.3	7717.8	611.0	356.1	352.3	348.6	322.4	296.1	273.6	232.4	224.9
52.5°	11068.8	7710.3	472.3	318.6	329.9	318.6	277.4	239.9	206.2	168.7	161.2
55°	11222.5	7350.5	356.1	262.4	281.1	266.1	221.2	187.4	149.9	119.9	116.2
57.5°	11091.3	6803.2	269.9	202.4	217.4	202.4	168.7	138.7	105.0	82.5	75.0
60°	10652.7	6162.2	209.9	157.4	164.9	153.7	127.4	105.0	75.0	52.5	45.0
62.5°	9820.6	5360.1	161.2	123.7	119.9	119.9	97.5	78.7	52.5	30.0	26.2
65°	8058.9	4179.4	123.7	86.2	86.2	86.2	75.0	56.2	33.7	15.0	7.5
67.5°	5060.2	2432.7	101.2	67.5	63.7	63.7	52.5	37.5	18.7	3.7	0.0
70°	1904.1	892.1	78.7	52.5	48.7	48.7	37.5	22.5	11.2	0.0	0.0
72°	656.0	341.1	63.7	37.5	37.5	33.7	26.2	18.7	7.5	0.0	0.0
72.5°	539.8	273.6	60.0	37.5	33.7	33.7	26.2	18.7	7.5	0.0	0.0
75°	194.9	112.4	41.2	26.2	22.5	22.5	18.7	11.2	3.7	0.0	0.0
77.5°	97.5	71.2	33.7	22.5	18.7	11.2	11.2	7.5	3.7	0.0	0.0
80°	60.0	45.0	18.7	15.0	11.2	7.5	3.7	3.7	0.0	0.0	0.0
82.5°	41.2	26.2	11.2	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0
85°	26.2	11.2	7.5	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	7.5	3.7	0.0	0.0	0.0	0.0	0.0	0.0	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)