

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: P483176

Luminaire Tested: **IFLD-L-SA7D-730-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483176  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-730-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (112) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

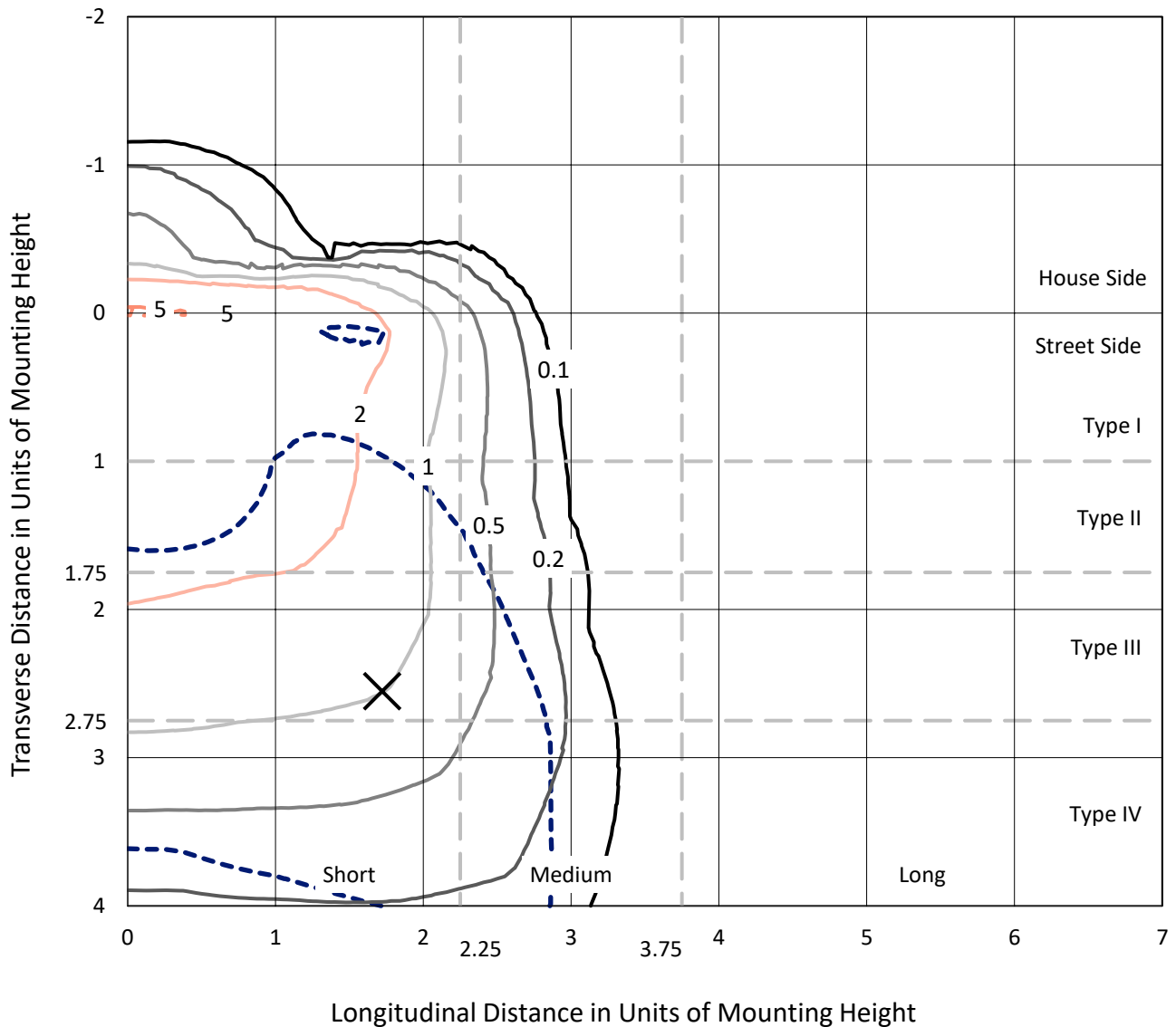
Lumens per Lamp: N/A  
Luminaire Lumens: 32118.3 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

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

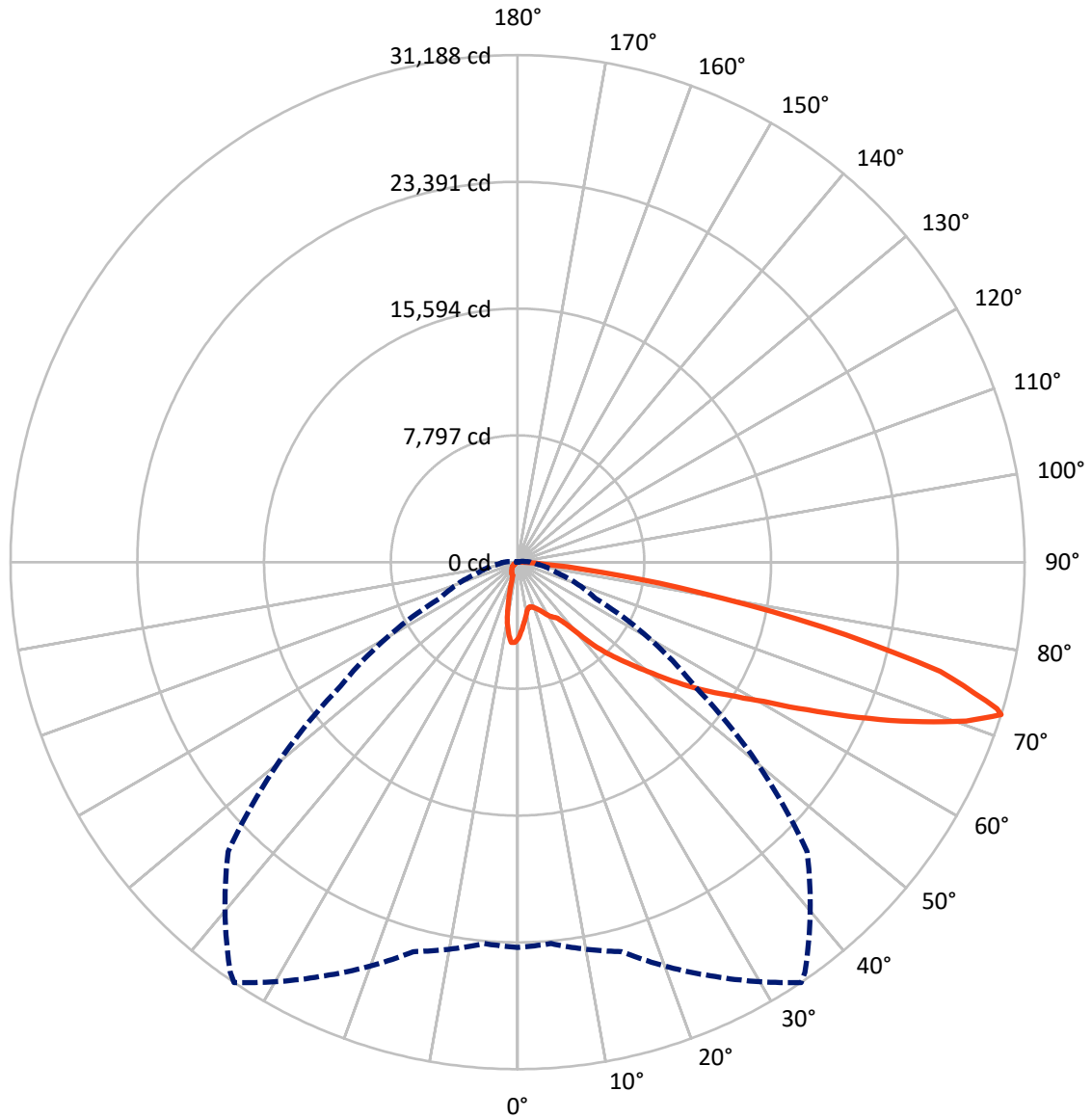
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 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	3288.1	0.0	3288.1
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	28830.1	0.0	28830.1
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	32118.3	0.0	32118.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	407.9	1.3
10°-20°	923.5	2.9
20°-30°	1393.9	4.3
30°-40°	2262.1	7.0
40°-50°	4253.7	13.2
50°-60°	6954.9	21.7
60°-70°	9245.5	28.8
70°-80°	6191.6	19.3
80°-90°	485.2	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°	32118.3	100.0
0°-180°	32118.3	100.0



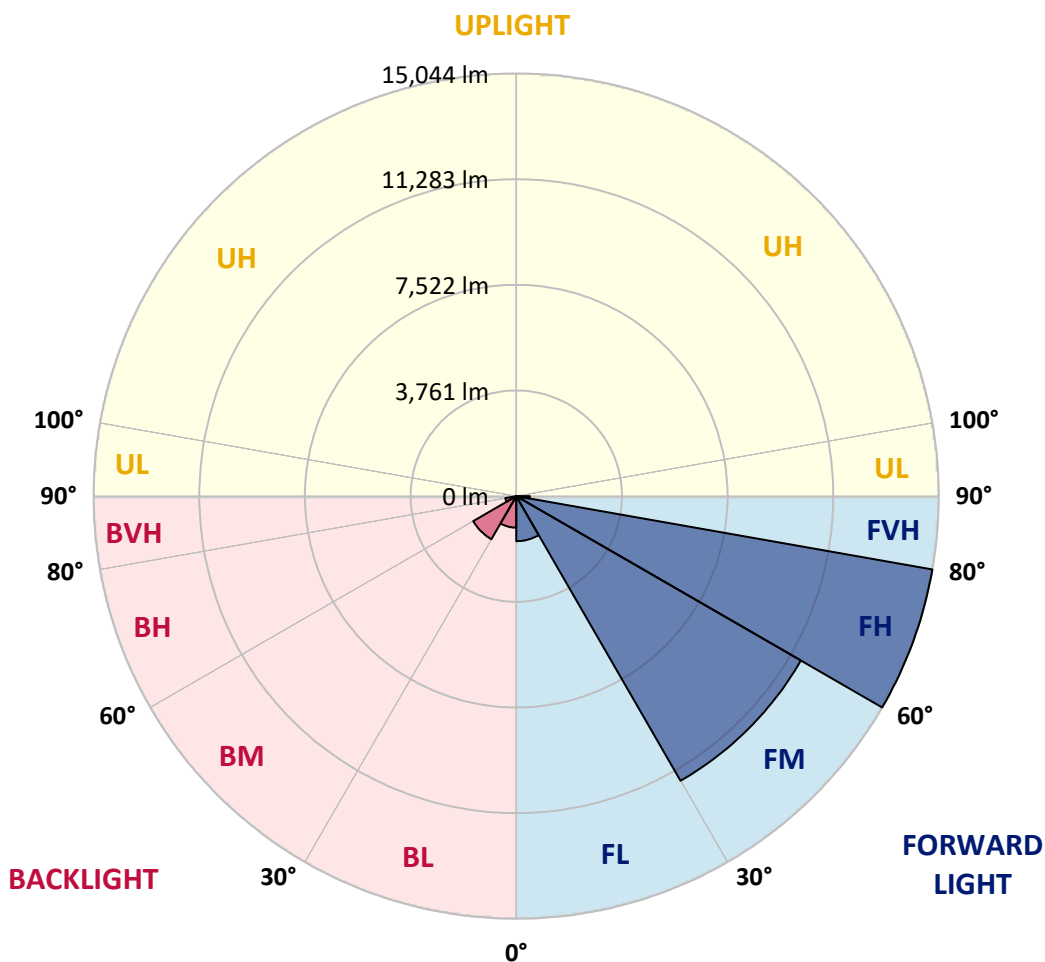
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1603.4	5.0			
FM (30°-60°)	11700.6	36.4			
FH (60°-80°)	15043.9	46.8			G5
FVH (80°-90°)	482.1	1.5			G3/500
BL (0°-30°)	1121.9	3.5	B3/2500		
BM (30°-60°)	1770.0	5.5	B2/2500		
BH (60°-80°)	393.2	1.2	B1/500		G1/500
BVH (80°-90°)	3.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9
2.5°	4155.7	4146.4	4174.2	4220.7	4267.1	4248.5	4336.8	4429.6	4494.6	4582.8	4689.6
5°	3631.0	3654.2	3682.1	3774.9	3835.3	3849.2	4011.7	4132.5	4332.1	4536.4	4726.8
7.5°	3152.7	3180.6	3236.3	3338.5	3463.8	3496.3	3658.8	3900.3	4160.3	4429.6	4740.7
10°	2804.5	2832.4	2892.7	2957.7	3124.9	3124.9	3347.8	3682.1	4021.0	4336.8	4745.4
12.5°	2730.2	2744.1	2739.5	2790.6	2897.4	2920.6	3138.8	3505.6	3900.3	4304.3	4819.7
15°	2818.4	2827.7	2781.3	2753.4	2846.3	2869.5	3073.8	3398.8	3821.4	4322.8	4940.4
17.5°	2994.9	2962.4	2869.5	2827.7	2906.6	2920.6	3111.0	3394.2	3812.1	4373.9	5079.7
20°	3097.0	3134.2	2971.7	2892.7	3004.2	3022.7	3227.0	3468.5	3858.5	4462.1	5274.7
22.5°	3278.1	3296.7	3078.4	3027.4	3134.2	3134.2	3366.3	3617.1	3969.9	4606.1	5506.8
25°	3533.5	3510.3	3254.9	3203.8	3306.0	3347.8	3579.9	3853.9	4141.7	4740.7	5720.4
27.5°	3733.1	3747.1	3538.1	3403.5	3575.3	3603.1	3853.9	4109.2	4271.8	4852.2	5980.5
30°	4030.3	4002.4	3779.6	3626.3	3839.9	3844.6	4086.0	4350.7	4522.5	5051.8	6370.5
32.5°	4383.2	4327.5	4072.1	3853.9	4025.7	4067.5	4313.5	4698.9	4912.5	5427.9	6974.1
35°	5130.7	4996.1	4578.2	4239.3	4253.2	4271.8	4652.5	5205.0	5451.1	5906.2	7782.0
37.5°	6221.9	6166.2	5692.6	5047.2	4801.1	4745.4	5172.5	5873.7	6180.1	6537.6	8831.4
40°	7303.8	7224.8	6783.7	6296.2	5850.4	5739.0	5952.6	6760.5	7039.1	7415.2	9908.6
42.5°	8506.4	8367.1	7847.0	7452.4	7173.8	7053.0	6969.5	7874.9	8190.6	8446.0	10962.6
45°	9722.9	9495.4	8743.2	8441.4	8292.8	8227.8	8218.5	9277.1	9467.5	9518.6	12132.7
47.5°	10790.8	10544.7	9862.2	9523.2	9411.8	9393.2	9913.3	10893.0	10744.4	10609.7	13437.4
50°	11612.7	11454.8	10962.6	10841.9	10758.3	10725.8	11942.3	12555.2	11868.0	11631.2	14584.3
52.5°	12884.9	12532.0	11974.8	12016.6	12309.1	12313.8	13999.3	14133.9	12801.3	12332.4	15666.2
55°	13901.8	13669.6	13214.6	13154.2	13925.0	14008.6	15842.6	15331.9	13321.4	13001.0	16065.5
57.5°	15099.7	14992.9	14663.3	14672.5	15480.5	15656.9	17481.7	16344.1	13753.2	13432.8	16125.9
60°	16831.6	16525.2	16353.4	16432.3	17384.2	17556.0	19069.7	17073.1	13962.1	13716.0	15977.3
62.5°	18744.6	18387.1	18201.4	18605.3	19993.7	20021.5	20276.9	17718.5	13832.1	13790.3	15020.8
65°	21047.7	20694.8	20546.2	21358.8	23007.1	22905.0	21971.7	17992.4	13418.9	13042.8	12508.8
67.5°	23341.4	23127.8	22821.4	24116.8	26169.1	26169.1	23731.4	17890.3	12337.0	10470.4	8181.3
70°	24427.9	24576.5	25064.0	27097.8	29275.4	29052.6	25468.0	16715.6	9184.3	5622.9	3217.7
72°	23703.6	23550.4	24808.7	28072.8	31188.4	30821.6	25175.5	13288.9	5307.2	2465.5	1119.0
72.5°	22459.2	22603.1	24335.1	27938.2	30830.9	31132.7	24460.4	12258.1	4364.6	1964.1	845.1
75°	13771.8	14017.8	18164.2	23722.2	26865.6	26526.7	18921.1	5841.2	1676.2	835.8	301.8
77.5°	5028.6	5232.9	8812.8	14927.9	19106.8	18893.2	10948.7	2075.5	910.1	622.2	153.2
80°	1309.4	1416.2	2994.9	6885.9	11236.6	11250.5	4582.8	831.1	617.5	510.8	92.9
82.5°	260.0	287.9	919.4	2679.1	5251.5	5181.8	1448.7	445.7	464.3	417.9	65.0
85°	32.5	41.8	195.0	910.1	1699.4	1523.0	357.5	222.9	343.6	325.0	41.8
87.5°	4.6	4.6	46.4	208.9	357.5	348.2	74.3	69.6	153.2	199.7	23.2
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°	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9	4698.9
2.5°	4750.0	4768.6	4833.6	4889.3	4954.3	4972.9	4945.0	4991.4	4926.4	4963.6	4972.9
5°	4759.3	4866.1	4986.8	5065.7	5047.2	5000.7	4963.6	4838.2	4750.0	4717.5	4787.1
7.5°	4824.3	4945.0	5075.0	5075.0	4972.9	4731.4	4499.3	4276.4	4090.7	3997.8	4076.7
10°	4907.9	5033.2	5167.9	4991.4	4610.7	4169.6	3839.9	3422.0	3138.8	2990.2	3004.2
12.5°	5019.3	5195.8	5242.2	4833.6	4202.1	3547.4	2948.4	2368.0	2098.7	1885.1	1889.8
15°	5163.2	5335.0	5195.8	4490.0	3682.1	2716.3	1996.6	1444.0	1230.5	1119.0	1119.0
17.5°	5353.6	5483.6	5181.8	4174.2	2980.9	1857.3	1225.8	975.1	928.6	910.1	910.1
20°	5576.5	5674.0	5047.2	3682.1	2214.8	1193.3	900.8	872.9	877.6	868.3	868.3
22.5°	5827.2	5859.7	4893.9	3111.0	1499.8	882.2	840.4	845.1	849.7	840.4	845.1
25°	6091.9	6003.7	4671.1	2442.3	998.3	803.3	812.6	821.8	826.5	831.1	831.1
27.5°	6389.1	6212.6	4360.0	1787.6	780.1	756.8	784.7	812.6	817.2	817.2	812.6
30°	6825.5	6533.0	4058.2	1211.9	687.2	705.8	752.2	784.7	807.9	807.9	803.3
32.5°	7378.1	6867.3	3635.6	826.5	636.1	645.4	682.6	747.6	798.6	803.3	789.3
35°	8144.2	7271.3	3194.5	659.3	599.0	603.6	626.8	677.9	766.1	794.0	789.3
37.5°	8952.1	7730.9	2646.6	594.3	571.1	566.5	580.4	622.2	701.1	770.8	775.4
40°	9811.1	8213.8	2070.9	561.8	547.9	538.6	543.3	561.8	622.2	710.4	729.0
42.5°	10619.0	8650.3	1555.5	529.3	524.7	515.4	515.4	520.0	552.5	612.9	622.2
45°	11491.9	9007.8	1184.0	506.1	492.2	496.8	478.3	469.0	492.2	496.8	492.2
47.5°	12309.1	9365.4	947.2	478.3	464.3	464.3	441.1	422.5	422.5	380.7	376.1
50°	13075.3	9560.4	756.8	441.1	436.5	431.8	399.3	366.8	339.0	287.9	278.6
52.5°	13711.4	9551.1	585.0	394.7	408.6	394.7	343.6	297.2	255.4	208.9	199.7
55°	13901.8	9105.3	441.1	325.0	348.2	329.7	273.9	232.2	185.7	148.6	143.9
57.5°	13739.3	8427.4	334.3	250.7	269.3	250.7	208.9	171.8	130.0	102.2	92.9
60°	13196.0	7633.4	260.0	195.0	204.3	190.4	157.9	130.0	92.9	65.0	55.7
62.5°	12165.2	6639.8	199.7	153.2	148.6	148.6	120.7	97.5	65.0	37.1	32.5
65°	9982.9	5177.2	153.2	106.8	106.8	106.8	92.9	69.6	41.8	18.6	9.3
67.5°	6268.3	3013.4	125.4	83.6	78.9	78.9	65.0	46.4	23.2	4.6	0.0
70°	2358.8	1105.1	97.5	65.0	60.4	60.4	46.4	27.9	13.9	0.0	0.0
72°	812.6	422.5	78.9	46.4	46.4	41.8	32.5	23.2	9.3	0.0	0.0
72.5°	668.6	339.0	74.3	46.4	41.8	41.8	32.5	23.2	9.3	0.0	0.0
75°	241.4	139.3	51.1	32.5	27.9	27.9	23.2	13.9	4.6	0.0	0.0
77.5°	120.7	88.2	41.8	27.9	23.2	13.9	13.9	9.3	4.6	0.0	0.0
80°	74.3	55.7	23.2	18.6	13.9	9.3	4.6	4.6	0.0	0.0	0.0
82.5°	51.1	32.5	13.9	13.9	9.3	4.6	0.0	0.0	0.0	0.0	0.0
85°	32.5	13.9	9.3	9.3	4.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	9.3	4.6	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)