

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: P483141

Luminaire Tested: **IFLD-L-SA8C-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483141
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

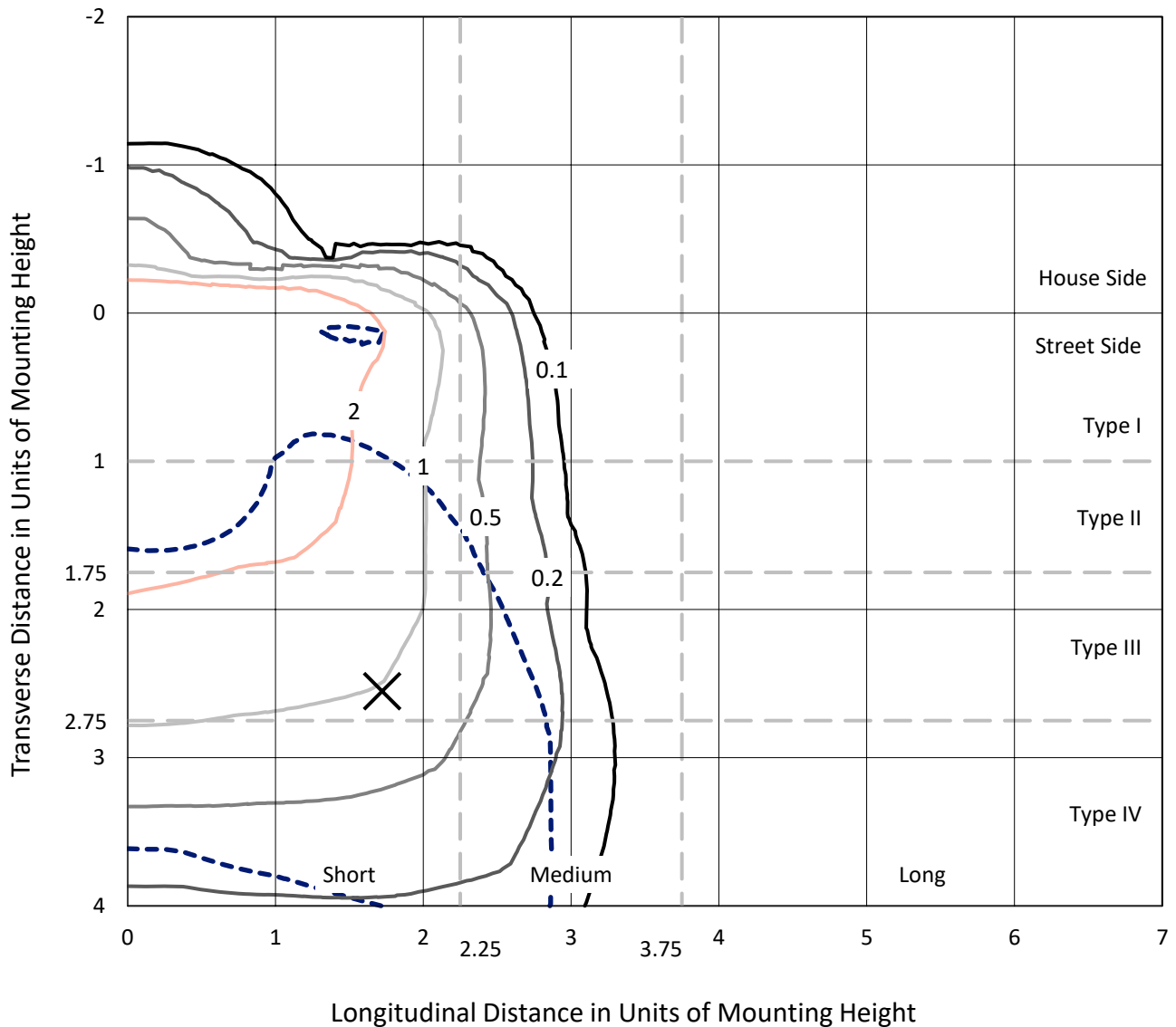
Lumens per Lamp: N/A
Luminaire Lumens: 30637.4 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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-L-SA8C-727-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

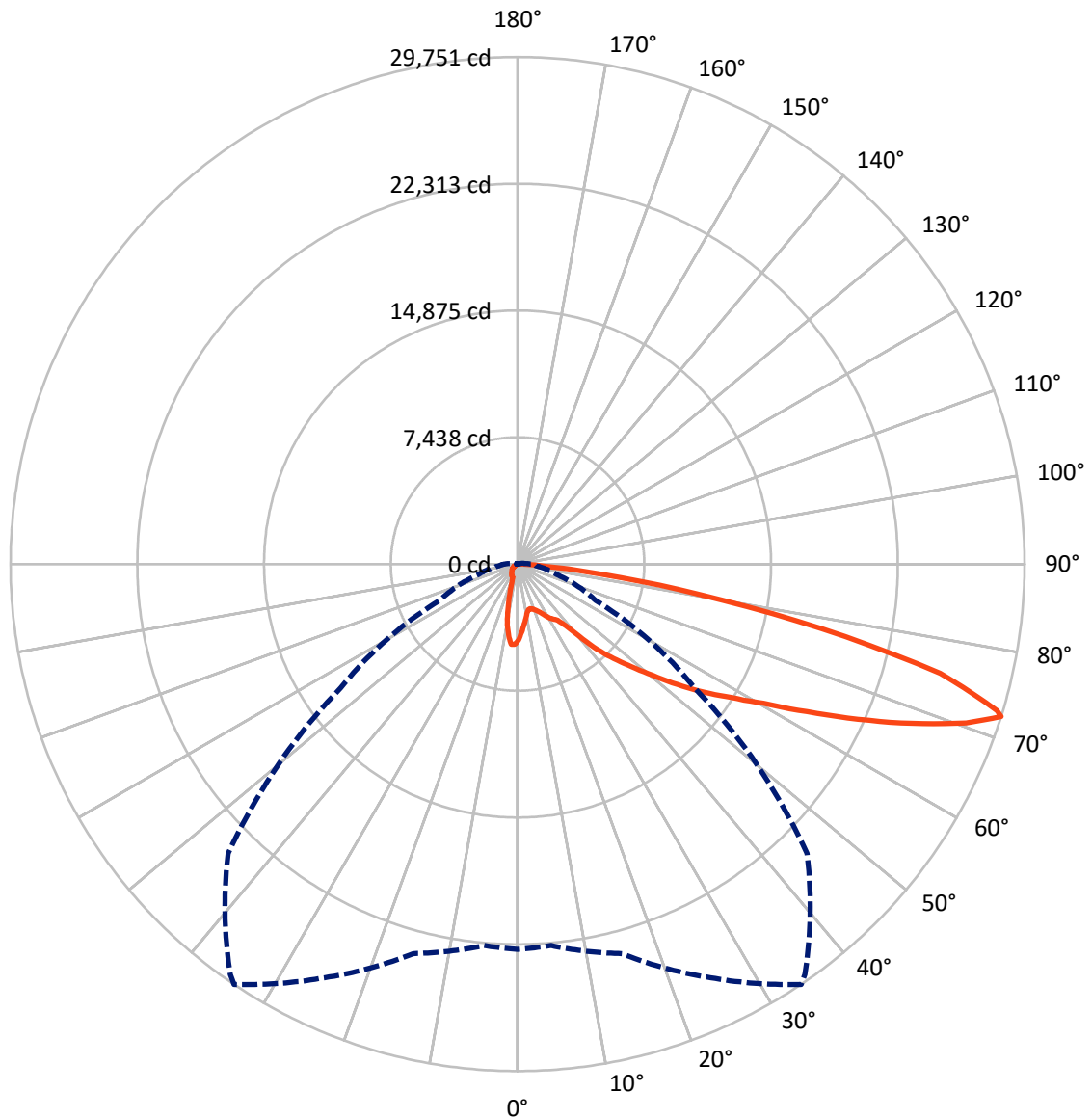
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

REPORT NUMBER: P483141
CATALOG NUMBER: IFLD-L-SA8C-727-U-T4FT-HSS

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
House Side	Lumens	3136.6	0.0	3136.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	27500.9	0.0	27500.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	30637.4	0.0	30637.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.1	1.3
10°-20°	880.9	2.9
20°-30°	1329.6	4.3
30°-40°	2157.8	7.0
40°-50°	4057.6	13.2
50°-60°	6634.2	21.7
60°-70°	8819.2	28.8
70°-80°	5906.2	19.3
80°-90°	462.8	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°	30637.4	100.0
0°-180°	30637.4	100.0



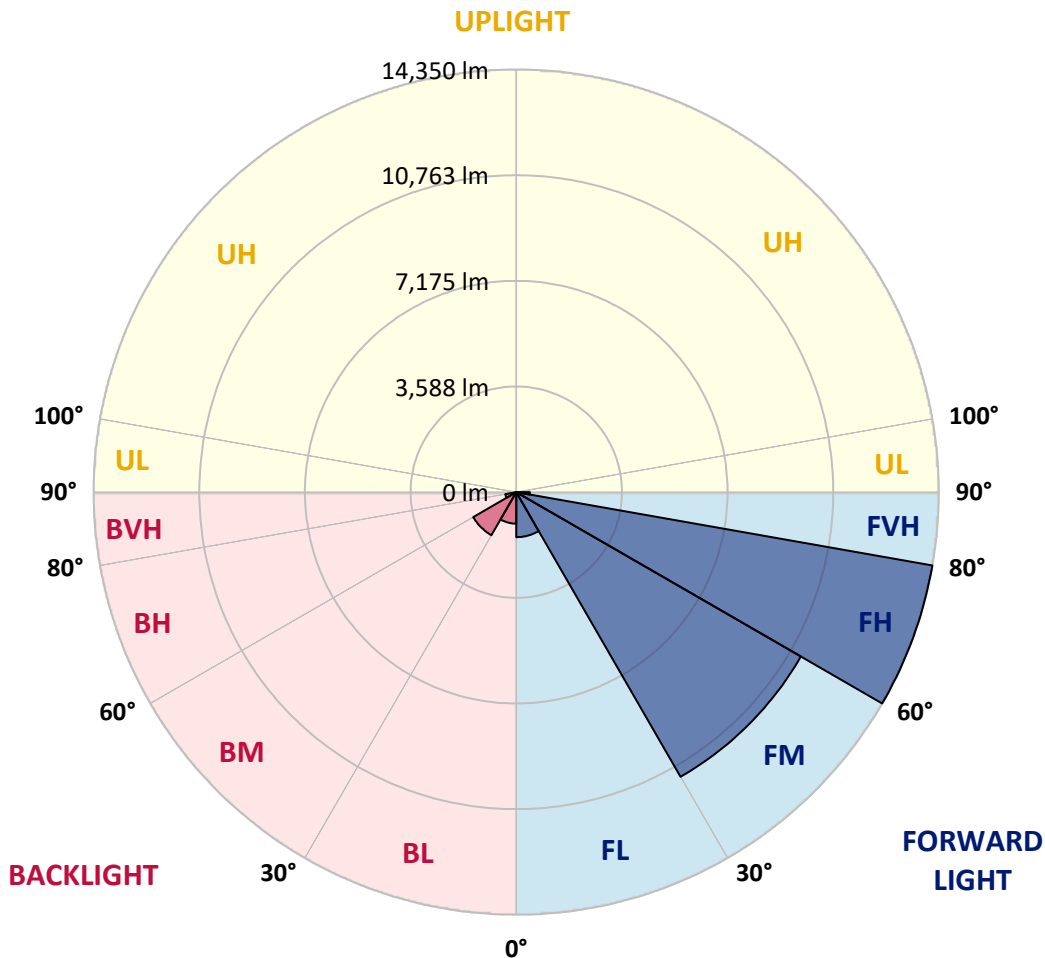
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 CATALOG NUMBER: IFLD-L-SA8C-727-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.5	5.0			
FM (30°-60°)	11161.2	36.4			
FH (60°-80°)	14350.3	46.8			G5
FVH (80°-90°)	459.9	1.5			G3/500
BL (0°-30°)	1070.2	3.5	B3/2500		
BM (30°-60°)	1688.4	5.5	B2/2500		
BH (60°-80°)	375.1	1.2	B1/500		G1/500
BVH (80°-90°)	2.9	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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CATALOG NUMBER: IFLD-L-SA8C-727-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3
2.5°	3964.1	3955.2	3981.8	4026.1	4070.4	4052.7	4136.8	4225.4	4287.4	4371.6	4473.4
5°	3463.6	3485.7	3512.3	3600.9	3658.5	3671.7	3826.8	3941.9	4132.4	4327.3	4508.9
7.5°	3007.4	3034.0	3087.1	3184.5	3304.1	3335.1	3490.2	3720.5	3968.5	4225.4	4522.1
10°	2675.2	2701.8	2759.3	2821.4	2980.8	2980.8	3193.4	3512.3	3835.6	4136.8	4526.6
12.5°	2604.3	2617.6	2613.2	2661.9	2763.8	2785.9	2994.1	3344.0	3720.5	4105.8	4597.4
15°	2688.5	2697.3	2653.0	2626.5	2715.1	2737.2	2932.1	3242.1	3645.2	4123.5	4712.6
17.5°	2856.8	2825.8	2737.2	2697.3	2772.6	2785.9	2967.5	3237.7	3636.3	4172.2	4845.5
20°	2954.2	2989.7	2834.6	2759.3	2865.6	2883.4	3078.2	3308.6	3680.6	4256.4	5031.5
22.5°	3127.0	3144.7	2936.5	2887.8	2989.7	2989.7	3211.1	3450.3	3786.9	4393.7	5252.9
25°	3370.6	3348.4	3104.8	3056.1	3153.5	3193.4	3414.9	3676.2	3950.8	4522.1	5456.7
27.5°	3561.0	3574.3	3375.0	3246.6	3410.4	3437.0	3676.2	3919.8	4074.8	4628.4	5704.7
30°	3844.5	3817.9	3605.3	3459.2	3662.9	3667.3	3897.6	4150.1	4314.0	4818.9	6076.8
32.5°	4181.1	4127.9	3884.3	3676.2	3840.1	3879.9	4114.7	4482.3	4686.0	5177.7	6652.6
35°	4894.2	4765.7	4367.1	4043.8	4057.1	4074.8	4438.0	4965.1	5199.8	5633.9	7423.2
37.5°	5935.0	5881.9	5430.1	4814.5	4579.7	4526.6	4934.1	5602.8	5895.2	6236.2	8424.2
40°	6967.0	6891.7	6471.0	6005.9	5580.7	5474.4	5678.1	6448.8	6714.6	7073.3	9451.8
42.5°	8114.2	7981.3	7485.2	7108.8	6843.0	6727.8	6648.1	7511.8	7813.0	8056.6	10457.2
45°	9274.6	9057.6	8340.1	8052.2	7910.4	7848.4	7839.6	8849.4	9031.0	9079.7	11573.3
47.5°	10293.3	10058.6	9407.5	9084.1	8977.8	8960.1	9456.2	10390.7	10249.0	10120.6	12817.9
50°	11077.3	10926.7	10457.2	10342.0	10262.3	10231.3	11391.7	11976.4	11320.9	11095.0	13911.9
52.5°	12290.8	11954.2	11422.7	11462.6	11741.6	11746.1	13353.8	13482.3	12211.1	11763.8	14943.9
55°	13260.8	13039.4	12605.3	12547.7	13283.0	13362.7	15112.2	14625.0	12707.2	12401.6	15324.8
57.5°	14403.5	14301.7	13987.2	13996.1	14766.7	14935.0	16675.7	15590.5	13119.1	12813.5	15382.4
60°	16055.6	15763.3	15599.4	15674.7	16582.7	16746.5	18190.4	16285.9	13318.4	13083.7	15240.6
62.5°	17880.4	17539.4	17362.2	17747.5	19071.8	19098.4	19342.0	16901.6	13194.4	13154.5	14328.2
65°	20077.2	19740.6	19598.9	20374.0	21946.3	21848.9	20958.6	17162.9	12800.2	12441.4	11932.1
67.5°	22265.2	22061.5	21769.2	23004.9	24962.6	24962.6	22637.3	17065.4	11768.2	9987.7	7804.1
70°	23301.7	23443.4	23908.4	25848.4	27925.7	27713.1	24293.8	15944.9	8760.8	5363.7	3069.4
72°	22610.7	22464.5	23664.8	26778.5	29750.5	29400.6	24014.7	12676.2	5062.5	2351.9	1067.4
72.5°	21423.7	21561.0	23213.1	26650.1	29409.4	29697.3	23332.7	11692.9	4163.4	1873.5	806.1
75°	13136.8	13371.5	17326.8	22628.4	25626.9	25303.6	18048.7	5571.8	1598.9	797.2	287.9
77.5°	4796.7	4991.6	8406.5	14239.7	18225.9	18022.1	10443.9	1979.8	868.1	593.5	146.2
80°	1249.0	1350.9	2856.8	6568.4	10718.5	10731.8	4371.6	792.8	589.1	487.2	88.6
82.5°	248.0	274.6	877.0	2555.6	5009.3	4942.9	1381.9	425.2	442.9	398.6	62.0
85°	31.0	39.9	186.0	868.1	1621.1	1452.8	341.0	212.6	327.8	310.0	39.9
87.5°	4.4	4.4	44.3	199.3	341.0	332.2	70.9	66.4	146.2	190.5	22.1
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°	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3	4482.3
2.5°	4531.0	4548.7	4610.7	4663.9	4725.9	4743.6	4717.0	4761.3	4699.3	4734.7	4743.6
5°	4539.9	4641.7	4756.9	4832.2	4814.5	4770.2	4734.7	4615.2	4531.0	4500.0	4566.4
7.5°	4601.9	4717.0	4841.0	4841.0	4743.6	4513.3	4291.8	4079.2	3902.1	3813.5	3888.8
10°	4681.6	4801.2	4929.6	4761.3	4398.1	3977.4	3662.9	3264.3	2994.1	2852.4	2865.6
12.5°	4787.9	4956.2	5000.5	4610.7	4008.4	3383.9	2812.5	2258.9	2002.0	1798.2	1802.7
15°	4925.2	5089.1	4956.2	4283.0	3512.3	2591.0	1904.5	1377.5	1173.7	1067.4	1067.4
17.5°	5106.8	5230.8	4942.9	3981.8	2843.5	1771.7	1169.3	930.1	885.8	868.1	868.1
20°	5319.4	5412.4	4814.5	3512.3	2112.7	1138.3	859.3	832.7	837.1	828.2	828.2
22.5°	5558.6	5589.6	4668.3	2967.5	1430.6	841.5	801.7	806.1	810.5	801.7	806.1
25°	5811.0	5726.9	4455.7	2329.7	952.3	766.2	775.1	784.0	788.4	792.8	792.8
27.5°	6094.5	5926.2	4159.0	1705.2	744.1	721.9	748.5	775.1	779.5	779.5	775.1
30°	6510.8	6231.8	3871.1	1156.0	655.5	673.2	717.5	748.5	770.7	770.7	766.2
32.5°	7037.9	6550.7	3468.0	788.4	606.8	615.6	651.1	713.1	761.8	766.2	753.0
35°	7768.7	6936.0	3047.2	628.9	571.4	575.8	597.9	646.7	730.8	757.4	753.0
37.5°	8539.4	7374.5	2524.6	566.9	544.8	540.4	553.6	593.5	668.8	735.2	739.7
40°	9358.8	7835.1	1975.4	535.9	522.6	513.8	518.2	535.9	593.5	677.7	695.4
42.5°	10129.4	8251.5	1483.8	504.9	500.5	491.6	491.6	496.1	527.1	584.6	593.5
45°	10962.1	8592.5	1129.4	482.8	469.5	473.9	456.2	447.3	469.5	473.9	469.5
47.5°	11741.6	8933.6	903.5	456.2	442.9	442.9	420.8	403.1	403.1	363.2	358.8
50°	12472.4	9119.6	721.9	420.8	416.3	411.9	380.9	349.9	323.3	274.6	265.7
52.5°	13079.2	9110.7	558.1	376.5	389.8	376.5	327.8	283.5	243.6	199.3	190.5
55°	13260.8	8685.5	420.8	310.0	332.2	314.5	261.3	221.5	177.2	141.7	137.3
57.5°	13105.8	8038.9	318.9	239.2	256.9	239.2	199.3	163.9	124.0	97.4	88.6
60°	12587.6	7281.5	248.0	186.0	194.9	181.6	150.6	124.0	88.6	62.0	53.1
62.5°	11604.3	6333.7	190.5	146.2	141.7	141.7	115.2	93.0	62.0	35.4	31.0
65°	9522.6	4938.5	146.2	101.9	101.9	101.9	88.6	66.4	39.9	17.7	8.9
67.5°	5979.3	2874.5	119.6	79.7	75.3	75.3	62.0	44.3	22.1	4.4	0.0
70°	2250.0	1054.1	93.0	62.0	57.6	57.6	44.3	26.6	13.3	0.0	0.0
72°	775.1	403.1	75.3	44.3	44.3	39.9	31.0	22.1	8.9	0.0	0.0
72.5°	637.8	323.3	70.9	44.3	39.9	39.9	31.0	22.1	8.9	0.0	0.0
75°	230.3	132.9	48.7	31.0	26.6	26.6	22.1	13.3	4.4	0.0	0.0
77.5°	115.2	84.2	39.9	26.6	22.1	13.3	13.3	8.9	4.4	0.0	0.0
80°	70.9	53.1	22.1	17.7	13.3	8.9	4.4	4.4	0.0	0.0	0.0
82.5°	48.7	31.0	13.3	13.3	8.9	4.4	0.0	0.0	0.0	0.0	0.0
85°	31.0	13.3	8.9	8.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	8.9	4.4	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)