

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: P484691

Luminaire Tested: **IFLD-M-SA4C-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484691
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

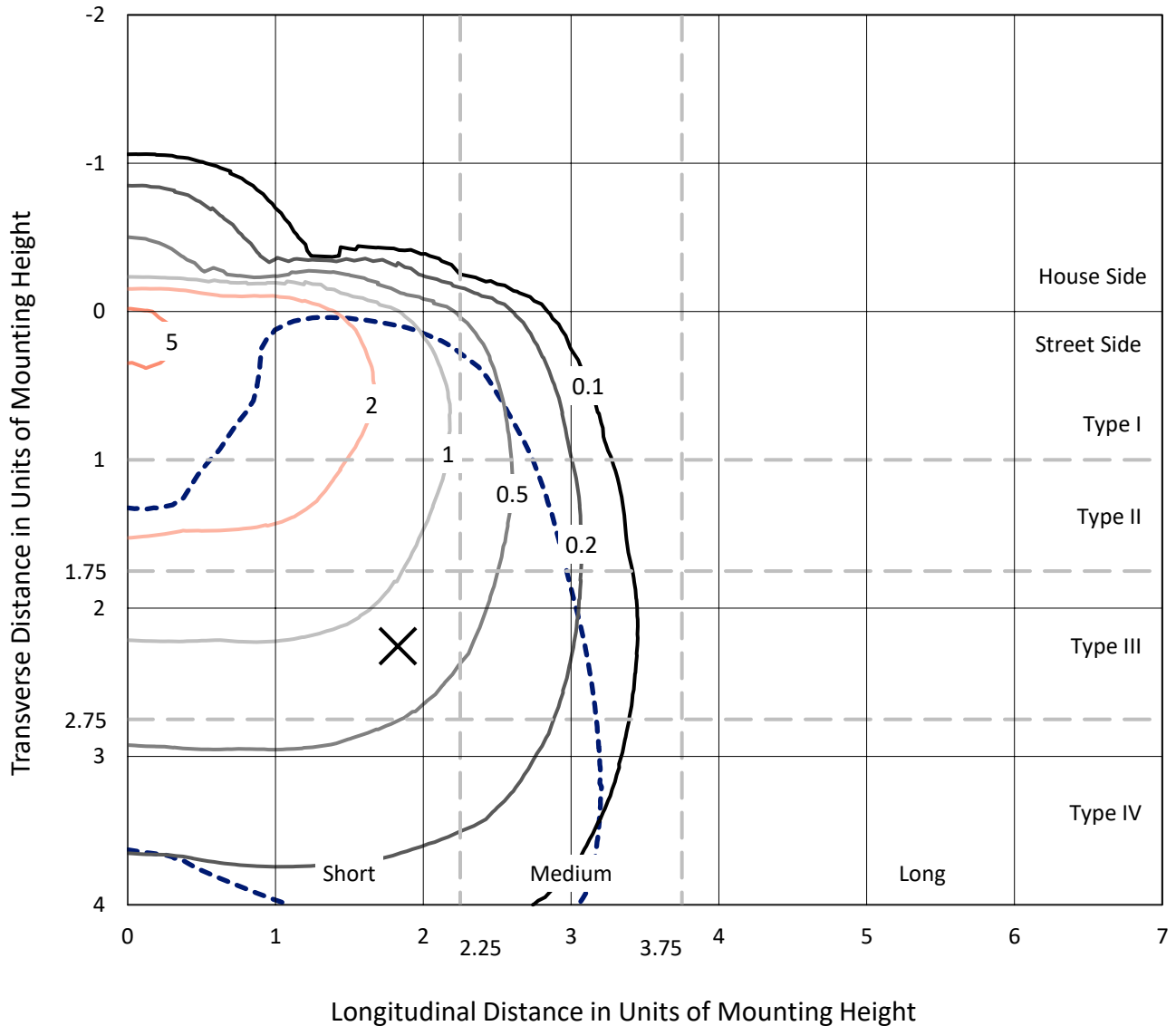
Lumens per Lamp: N/A
Luminaire Lumens: 19642.9 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

REPORT NUMBER: P484691
 CATALOG NUMBER: IFLD-M-SA4C-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

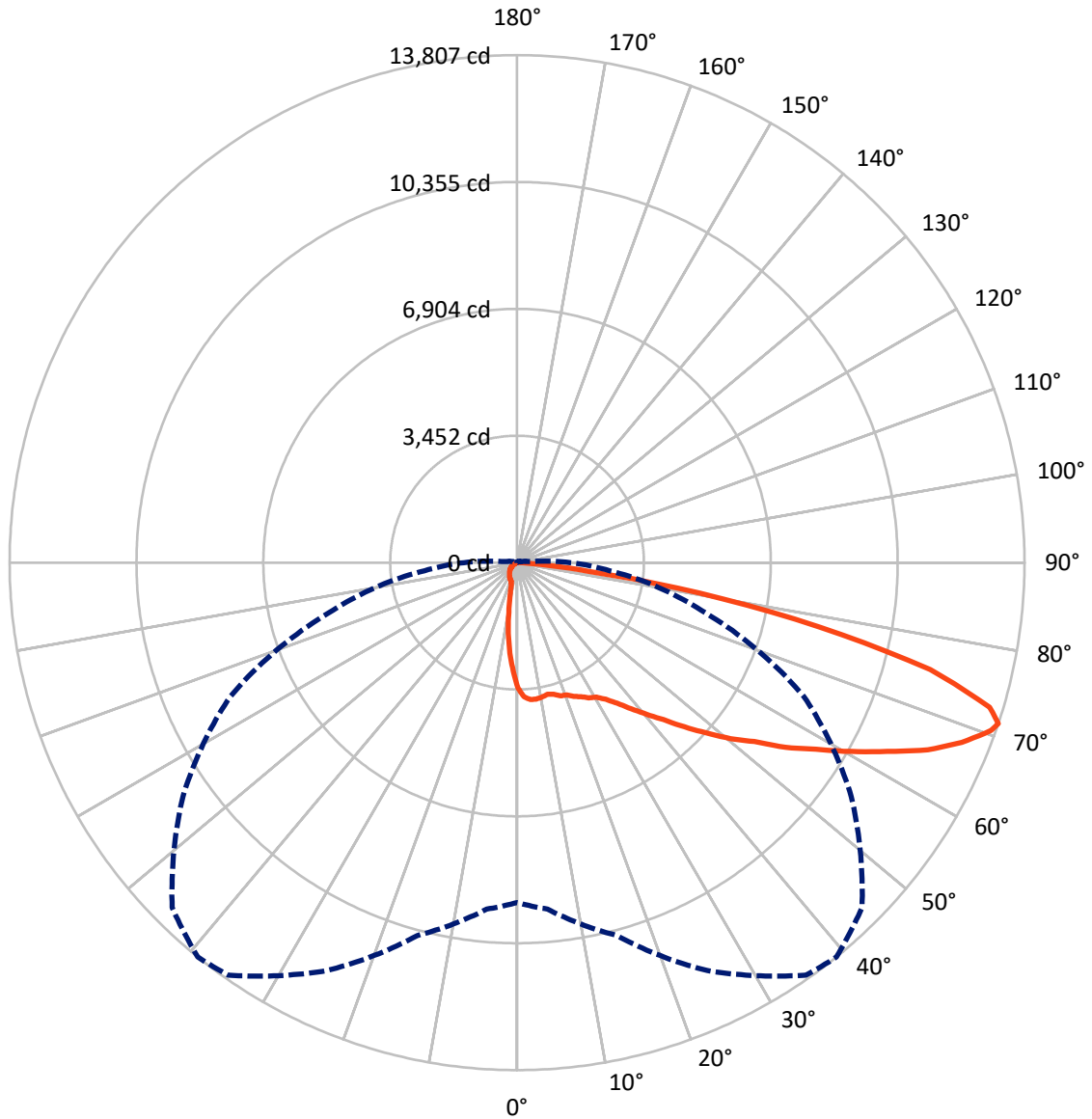
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P484691
CATALOG NUMBER: IFLD-M-SA4C-727-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.8	0.0	1478.8
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	18164.1	0.0	18164.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	19642.9	0.0	19642.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.9	1.5
10°-20°	703.6	3.6
20°-30°	1129.5	5.8
30°-40°	1729.0	8.8
40°-50°	2775.3	14.1
50°-60°	4076.4	20.8
60°-70°	5134.1	26.1
70°-80°	3426.4	17.4
80°-90°	382.9	1.9
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°	19642.9	100.0
0°-180°	19642.9	100.0

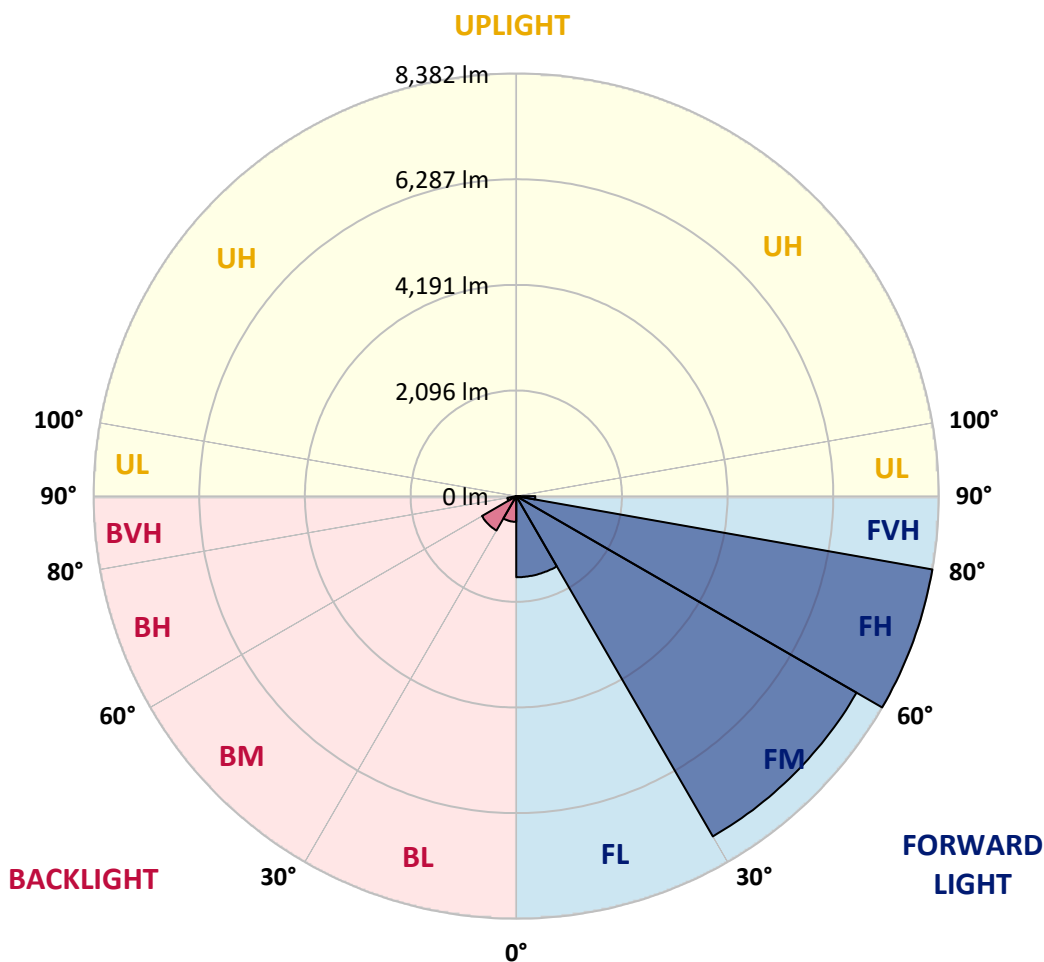


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.3	8.2			
FM (30°-60°)	7794.6	39.7			
FH (60°-80°)	8382.5	42.7			G4/12000
FVH (80°-90°)	378.7	1.9			G3/500
BL (0°-30°)	510.6	2.6	B2/1000		
BM (30°-60°)	786.0	4.0	B1/1000		
BH (60°-80°)	178.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.2	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-G4
 Type IV Short





REPORT NUMBER: P484691

CATALOG NUMBER: IFLD-M-SA4C-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0
2.5°	3684.4	3720.4	3684.4	3668.9	3653.4	3656.0	3614.8	3622.5	3573.6	3509.2	3457.6
5°	3800.3	3849.2	3810.6	3792.6	3790.0	3741.0	3720.4	3671.5	3612.2	3511.7	3449.9
7.5°	3790.0	3779.7	3797.7	3782.3	3748.8	3748.8	3725.6	3656.0	3596.8	3483.4	3377.8
10°	3712.7	3743.6	3728.2	3710.1	3717.8	3720.4	3676.6	3627.7	3609.6	3496.3	3323.6
12.5°	3705.0	3653.4	3710.1	3712.7	3679.2	3676.6	3671.5	3658.6	3601.9	3498.8	3336.5
15°	3679.2	3658.6	3715.3	3717.8	3725.6	3717.8	3725.6	3715.3	3658.6	3599.3	3393.2
17.5°	3699.8	3676.6	3756.5	3795.1	3777.1	3813.2	3800.3	3753.9	3705.0	3635.4	3447.3
20°	3705.0	3738.5	3826.1	3841.5	3898.2	3838.9	3836.4	3787.4	3756.5	3681.8	3480.8
22.5°	3800.3	3815.8	3924.0	3957.5	3960.0	3952.3	3887.9	3831.2	3818.3	3725.6	3488.5
25°	3944.6	3998.7	4047.6	4068.2	4076.0	4039.9	3972.9	3900.8	3869.9	3810.6	3568.4
27.5°	4199.6	4166.2	4210.0	4240.9	4153.3	4166.2	4081.1	4019.3	3975.5	3924.0	3661.2
30°	4426.4	4395.5	4398.0	4392.9	4318.2	4248.6	4225.4	4117.2	4063.1	4083.7	3805.4
32.5°	4629.9	4562.9	4619.6	4593.9	4454.7	4434.1	4416.1	4279.5	4289.8	4385.2	4021.9
35°	4818.0	4794.8	4841.2	4794.8	4702.1	4696.9	4678.9	4560.4	4617.0	4753.6	4392.9
37.5°	4990.6	4998.4	5055.0	5031.9	5039.6	5044.7	5034.4	4908.2	5070.5	5377.1	4825.7
40°	5150.4	5140.1	5279.2	5351.3	5366.8	5423.5	5423.5	5392.6	5642.5	5987.7	5426.1
42.5°	5320.4	5346.2	5526.5	5647.6	5794.5	5843.4	5910.4	5925.9	6312.4	6706.6	6039.3
45°	5598.7	5554.9	5784.2	6070.2	6199.0	6371.6	6474.7	6562.3	7028.6	7569.7	6652.5
47.5°	5951.7	5864.1	6065.0	6479.8	6778.7	6920.4	7105.9	7221.9	7677.9	8237.0	7232.2
50°	6343.3	6253.1	6351.0	6923.0	7270.8	7528.5	7765.5	7912.3	8463.7	8984.2	7654.7
52.5°	6786.4	6704.0	6719.4	7384.2	7896.9	8085.0	8396.7	8615.7	9164.5	9435.0	7804.1
55°	7257.9	7237.3	7188.4	7835.1	8445.7	8868.2	9056.3	9319.1	9883.3	9679.8	7966.5
57.5°	7732.0	7667.6	7737.1	8432.8	9326.8	9579.3	9839.5	9996.7	10282.7	9893.7	7904.6
60°	8177.7	8182.9	8280.8	9082.1	10076.6	10434.7	10669.2	10573.8	10692.4	9986.4	7762.9
62.5°	8553.9	8543.6	8790.9	9811.2	11068.5	11310.7	11485.9	11060.8	10883.0	10076.6	7515.6
65°	8891.4	9007.3	9396.4	10679.5	12001.2	12279.5	12173.8	11522.0	11068.5	9811.2	6819.9
67.5°	9146.5	9319.1	9994.1	11496.2	12856.6	13052.4	12905.5	11872.4	10849.5	8770.3	5554.9
70°	9295.9	9471.1	10421.8	12176.4	13539.4	13681.1	13335.8	11601.9	9571.6	6351.0	3465.4
71°	9249.5	9463.4	10504.3	12248.5	13701.7	13807.3	13271.4	11102.0	8608.0	5317.8	2527.5
72.5°	8829.6	9030.5	10161.6	12197.0	13505.9	13441.5	12769.0	9901.4	6776.1	3390.6	1306.3
75°	6487.6	6704.0	8721.4	10550.7	12055.3	11612.2	10334.2	6948.7	3534.9	1038.3	381.3
77.5°	3230.9	3267.0	5413.2	7659.9	8842.5	8401.9	6925.6	3875.0	1321.7	306.6	190.7
80°	1489.2	1499.5	2030.3	3967.8	5346.2	5031.9	3880.2	1911.7	597.7	162.3	149.4
82.5°	1015.1	1030.6	1223.8	1643.8	2321.4	1958.1	1571.6	1223.8	342.7	97.9	146.9
85°	185.5	170.0	685.3	870.8	896.6	608.0	543.6	1058.9	128.8	56.7	128.8
87.5°	0.0	2.6	95.3	355.6	319.5	141.7	185.5	257.6	12.9	18.0	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°	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0	3419.0
2.5°	3413.8	3385.5	3290.2	3184.5	3089.2	3014.5	2919.1	2875.3	2805.8	2767.1	2764.6
5°	3364.9	3287.6	3122.7	2944.9	2746.5	2581.6	2398.7	2295.6	2177.1	2141.0	2133.3
7.5°	3282.4	3171.6	2929.4	2679.5	2375.5	2084.4	1860.2	1620.6	1473.7	1411.9	1388.7
10°	3230.9	3096.9	2767.1	2393.5	1968.4	1558.8	1244.4	989.4	855.4	791.0	775.5
12.5°	3230.9	3086.6	2635.7	2120.4	1556.2	1066.7	770.4	623.5	579.7	564.2	564.2
15°	3223.2	3066.0	2509.5	1839.6	1151.7	716.3	574.6	543.6	538.5	535.9	533.3
17.5°	3261.8	3029.9	2380.7	1538.2	814.2	564.2	528.2	523.0	517.9	517.9	512.7
20°	3290.2	3009.3	2226.1	1218.7	608.0	523.0	507.6	499.8	497.3	494.7	499.8
22.5°	3267.0	2978.4	2035.4	912.1	530.8	497.3	487.0	479.2	474.1	474.1	476.6
25°	3310.8	2950.1	1844.8	687.9	497.3	474.1	463.8	458.6	456.0	453.5	448.3
27.5°	3370.0	2962.9	1618.0	553.9	468.9	450.9	440.6	435.4	432.8	427.7	432.8
30°	3442.2	2960.4	1368.1	484.4	443.2	425.1	414.8	412.2	407.1	404.5	407.1
32.5°	3565.8	3027.4	1110.5	448.3	414.8	399.4	389.0	386.5	383.9	381.3	378.7
35°	3831.2	3109.8	868.3	420.0	389.0	371.0	363.3	358.1	355.6	353.0	350.4
37.5°	4158.4	3292.7	662.2	394.2	363.3	345.2	337.5	334.9	324.6	322.1	319.5
40°	4568.1	3488.5	510.1	365.9	340.1	322.1	314.3	306.6	293.7	288.6	283.4
42.5°	5078.2	3679.2	420.0	340.1	314.3	301.4	288.6	275.7	265.4	255.1	249.9
45°	5588.4	3900.8	368.4	316.9	293.7	278.3	268.0	249.9	231.9	216.4	213.8
47.5°	6013.5	3980.6	337.5	291.1	273.1	260.2	244.8	221.6	195.8	180.4	177.8
50°	6330.4	3934.3	306.6	265.4	249.9	237.0	216.4	188.1	162.3	146.9	141.7
52.5°	6392.2	3730.7	278.3	244.8	226.7	211.3	188.1	157.2	128.8	113.4	110.8
55°	6348.4	3393.2	255.1	226.7	206.1	182.9	157.2	126.2	100.5	85.0	82.4
57.5°	6258.3	2993.9	229.3	203.5	180.4	157.2	128.8	103.1	74.7	59.3	59.3
60°	5951.7	2450.2	203.5	177.8	154.6	134.0	105.6	74.7	51.5	38.6	36.1
62.5°	5524.0	1883.4	177.8	152.0	134.0	110.8	82.4	54.1	30.9	20.6	20.6
65°	4743.3	1319.2	149.4	126.2	110.8	90.2	61.8	33.5	18.0	7.7	7.7
67.5°	3604.5	816.7	123.7	105.6	95.3	72.1	43.8	20.6	7.7	2.6	0.0
70°	2068.9	425.1	97.9	85.0	74.7	54.1	30.9	10.3	5.2	0.0	0.0
71°	1445.4	314.3	87.6	74.7	67.0	49.0	25.8	7.7	2.6	0.0	0.0
72.5°	724.0	208.7	74.7	61.8	54.1	38.6	20.6	7.7	2.6	0.0	0.0
75°	257.6	134.0	51.5	41.2	38.6	28.3	12.9	5.2	2.6	0.0	0.0
77.5°	177.8	108.2	36.1	25.8	25.8	18.0	7.7	2.6	2.6	0.0	0.0
80°	162.3	59.3	23.2	15.5	12.9	10.3	5.2	2.6	0.0	0.0	0.0
82.5°	162.3	43.8	12.9	10.3	7.7	5.2	2.6	0.0	0.0	0.0	0.0
85°	113.4	23.2	7.7	7.7	5.2	2.6	0.0	0.0	0.0	0.0	0.0
87.5°	18.0	7.7	5.2	2.6	2.6	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)