

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: P484008

Luminaire Tested: **IFLD-S-SA3C-740-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P484008
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

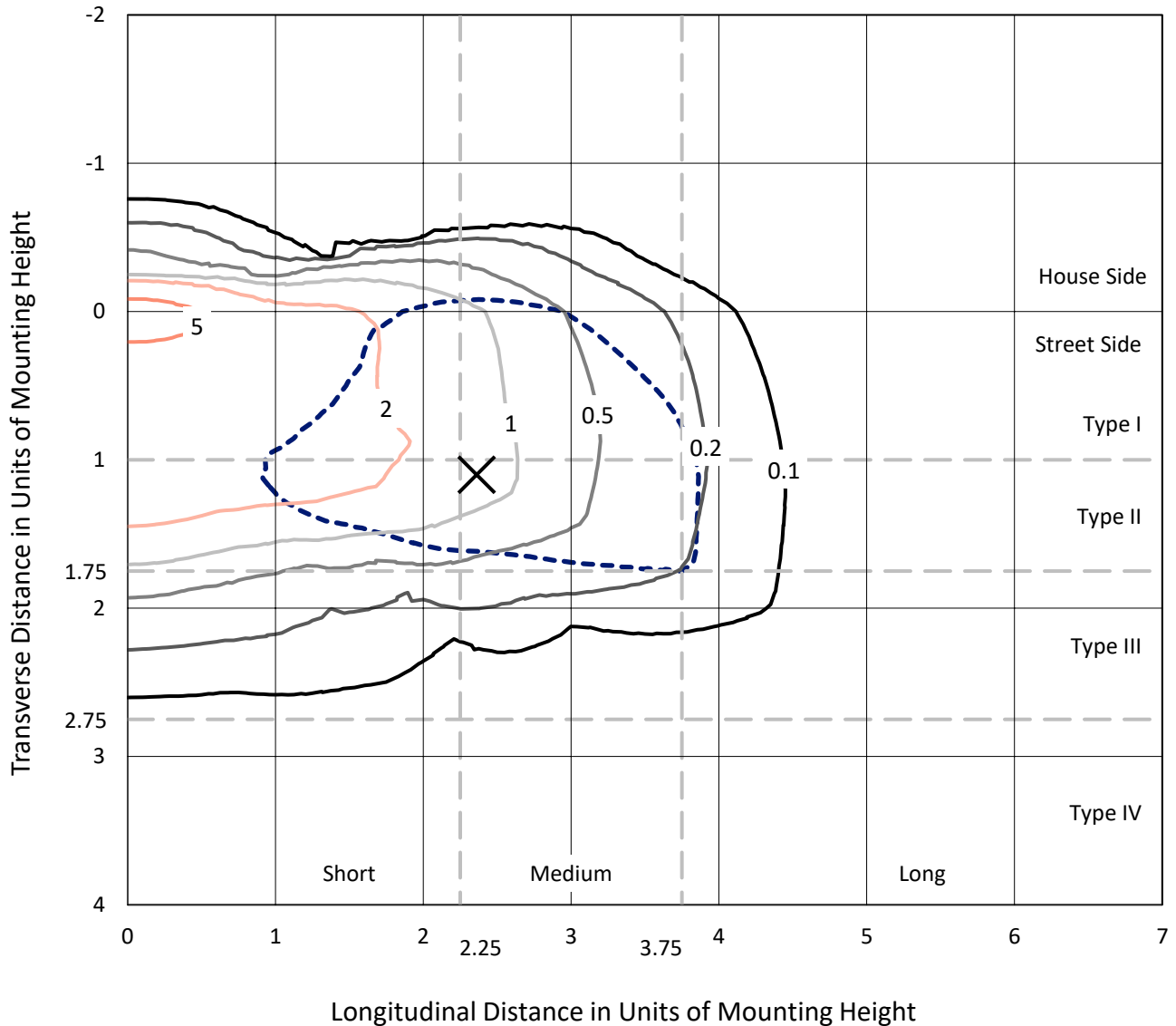
Lumens per Lamp: N/A
Luminaire Lumens: 17433.9 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

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

REPORT NUMBER: P484008
 CATALOG NUMBER: IFLD-S-SA3C-740-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

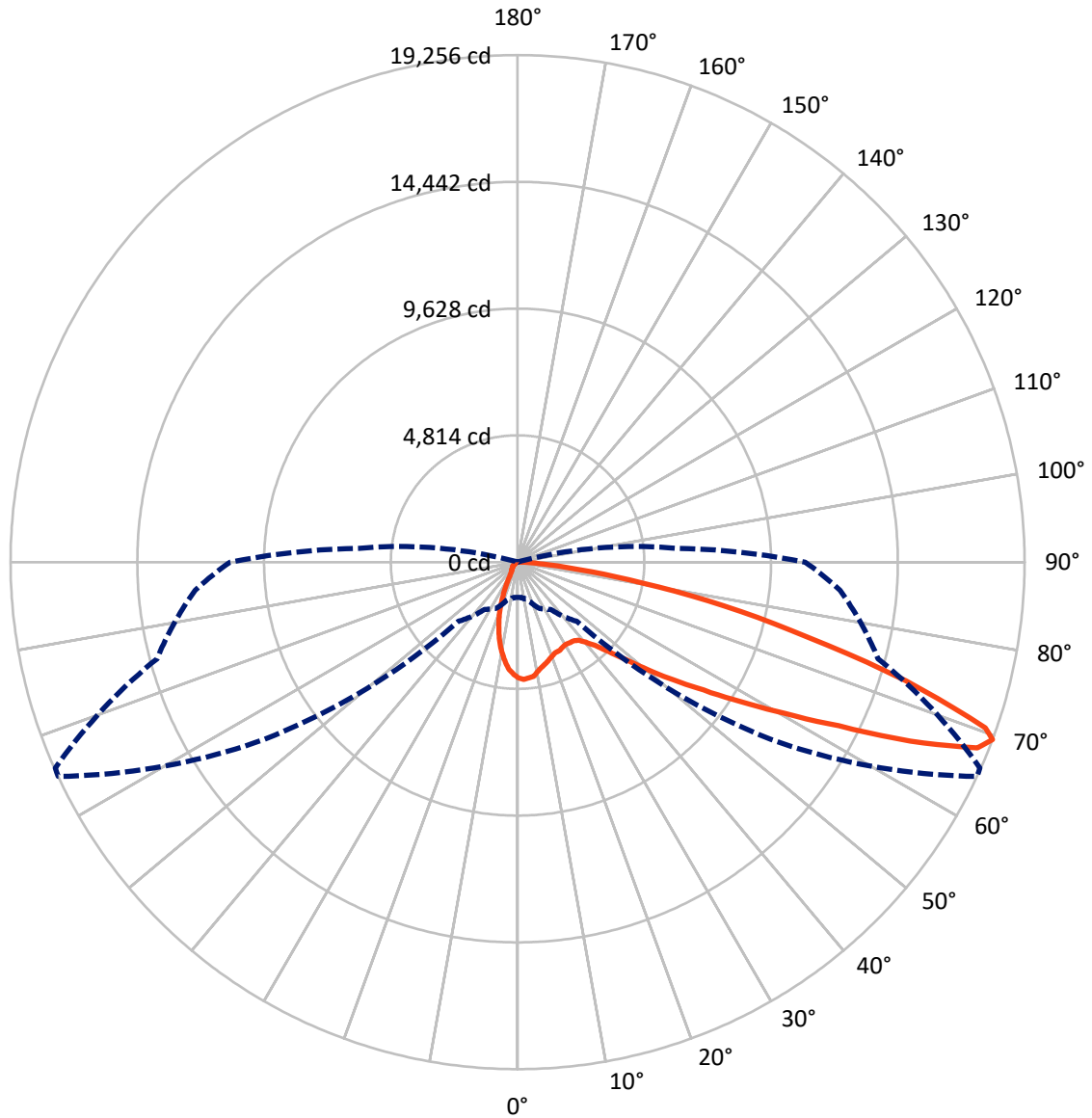
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

REPORT NUMBER: P484008
CATALOG NUMBER: IFLD-S-SA3C-740-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2114.8	0.0	2114.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	15319.0	0.0	15319.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	17433.9	0.0	17433.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.7	2.1
10°-20°	787.0	4.5
20°-30°	1095.7	6.3
30°-40°	1552.7	8.9
40°-50°	2447.0	14.0
50°-60°	3970.6	22.8
60°-70°	4434.4	25.4
70°-80°	2497.1	14.3
80°-90°	289.8	1.7
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°	17433.9	100.0
0°-180°	17433.9	100.0

Coefficient of Utilization



REPORT NUMBER: P484008

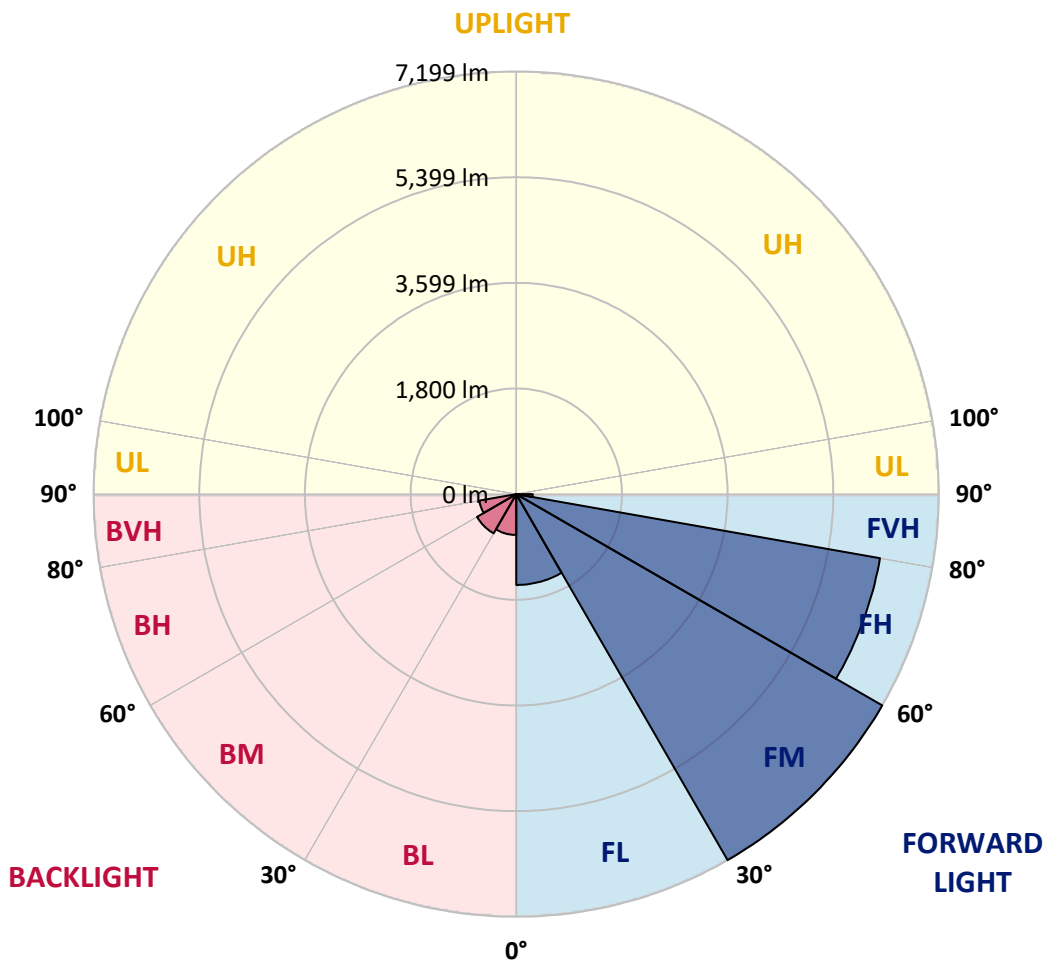
CATALOG NUMBER: IFLD-S-SA3C-740-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1547.1	8.9			
FM (30°-60°)	7198.6	41.3			
FH (60°-80°)	6291.6	36.1			G3/7500
FVH (80°-90°)	281.8	1.6			G3/500
BL (0°-30°)	695.3	4.0	B2/1000		
BM (30°-60°)	771.7	4.4	B1/1000		
BH (60°-80°)	639.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	8.0	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-G3

Type II Medium





REPORT NUMBER: P484008

CATALOG NUMBER: IFLD-S-SA3C-740-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5
2.5°	4233.2	4266.1	4275.5	4308.5	4324.9	4395.5	4435.5	4459.0	4447.2	4473.1	4475.4
5°	3932.2	3913.4	3962.8	3998.0	4073.3	4195.6	4320.2	4416.7	4461.3	4503.7	4496.6
7.5°	3610.0	3600.6	3650.0	3729.9	3798.1	3946.3	4146.2	4383.7	4374.3	4477.8	4508.4
10°	3388.9	3398.3	3414.8	3494.8	3595.9	3746.4	3995.7	4216.7	4266.1	4484.9	4546.0
12.5°	3186.7	3203.1	3233.7	3316.0	3433.6	3588.8	3831.1	4089.8	4165.0	4444.9	4567.2
15°	3120.8	3083.2	3144.3	3205.5	3327.8	3466.5	3671.1	3993.3	4026.3	4397.8	4602.4
17.5°	3066.7	3043.2	3071.4	3120.8	3250.2	3363.1	3555.9	3889.9	3951.0	4379.0	4597.7
20°	3083.2	3062.0	3073.8	3111.4	3170.2	3276.0	3454.8	3791.1	3856.9	4292.0	4590.7
22.5°	3130.2	3146.7	3125.5	3134.9	3153.7	3207.8	3400.7	3720.5	3777.0	4275.5	4630.7
25°	3341.9	3313.7	3285.4	3273.7	3163.2	3186.7	3384.2	3715.8	3755.8	4216.7	4597.7
27.5°	3563.0	3539.4	3527.7	3459.5	3309.0	3238.4	3386.6	3650.0	3704.1	4193.2	4557.8
30°	3831.1	3861.6	3814.6	3732.3	3523.0	3348.9	3412.4	3617.0	3692.3	4103.9	4531.9
32.5°	4113.3	4129.7	4153.3	4092.1	3821.7	3515.9	3490.0	3647.6	3652.3	4103.9	4473.1
35°	4433.1	4409.6	4470.7	4475.4	4237.9	3812.2	3638.2	3668.8	3718.2	4085.1	4451.9
37.5°	4708.3	4748.3	4818.8	4931.7	4687.1	4230.9	3868.7	3767.6	3788.7	4172.1	4468.4
40°	5009.3	5049.3	5209.2	5322.1	5183.3	4701.2	4219.1	3998.0	4014.5	4301.4	4553.1
42.5°	5340.9	5418.5	5609.0	5806.6	5768.9	5298.6	4670.6	4336.7	4329.6	4623.6	4727.1
45°	5790.1	5893.6	6100.5	6328.7	6361.6	5982.9	5272.7	4842.3	4865.8	5044.6	5086.9
47.5°	6415.7	6411.0	6613.2	6867.2	7057.7	6693.2	5992.3	5522.0	5519.6	5710.1	5620.8
50°	7020.1	7022.4	7076.5	7370.5	7864.4	7678.6	6883.7	6425.1	6399.2	6493.3	6349.8
52.5°	7299.9	7267.0	7227.0	7582.2	8485.2	8920.3	8012.5	7448.1	7426.9	7370.5	7332.9
55°	7006.0	7017.7	7015.4	7384.6	8812.1	10230.3	9461.2	8574.6	8539.3	8362.9	8414.7
57.5°	6062.9	6025.3	6107.6	6683.8	8438.2	11123.9	11533.2	9995.1	9903.4	9317.8	9200.2
60°	4513.1	4524.8	4593.0	5272.7	7509.2	11312.1	13515.7	11662.5	11267.4	9990.4	9828.1
62.5°	3151.4	3127.9	3153.7	3534.7	5369.1	10559.5	14856.2	13689.7	13308.7	10754.7	10660.6
65°	2255.4	2224.8	2328.3	2561.1	3224.3	8073.7	15046.7	16389.6	16048.6	11975.3	11749.5
67.5°	1622.7	1618.0	1738.0	2161.3	2290.6	4649.5	13635.6	18835.4	18628.5	13424.0	12412.7
69°	1342.9	1345.2	1460.5	1935.5	2187.2	3174.9	11733.1	19256.4	19218.8	14171.9	12288.1
70°	1171.2	1180.6	1314.6	1801.5	2144.8	2610.5	10115.0	18842.5	18804.9	14317.7	11876.5
72.5°	722.0	729.1	905.4	1444.0	2039.0	2130.7	6048.8	15415.9	15545.3	13649.8	10232.6
75°	345.7	348.1	475.1	1044.2	1966.1	2020.2	3240.8	11375.6	11648.4	11020.5	7996.1
77.5°	183.4	183.4	228.1	555.0	1592.2	1900.2	1923.8	8024.3	8250.1	6968.3	4546.0
80°	91.7	94.1	138.8	289.3	987.7	1862.6	1502.8	4785.9	4908.2	2843.3	1415.8
82.5°	35.3	37.6	65.8	174.0	512.7	1573.3	1319.4	2354.1	2323.6	665.6	345.7
85°	4.7	4.7	23.5	103.5	218.7	693.8	1088.9	983.0	950.1	145.8	167.0
87.5°	0.0	0.0	4.7	30.6	65.8	202.3	421.0	270.5	301.0	40.0	82.3
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°	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5	4395.5
2.5°	4463.7	4414.3	4339.0	4266.1	4188.5	4094.5	3991.0	3953.4	3887.5	3882.8	3920.4
5°	4459.0	4379.0	4247.3	4092.1	3871.0	3704.1	3523.0	3391.3	3290.1	3224.3	3240.8
7.5°	4482.5	4386.1	4158.0	3824.0	3539.4	3207.8	2928.0	2735.1	2558.7	2471.7	2462.3
10°	4444.9	4315.5	3981.6	3513.6	3094.9	2631.6	2222.4	1963.7	1700.3	1603.9	1608.6
12.5°	4466.0	4285.0	3791.1	3193.7	2617.5	2015.5	1526.3	1173.5	926.6	846.6	837.2
15°	4480.1	4219.1	3607.6	2810.4	2088.4	1373.4	884.3	665.6	587.9	573.8	571.5
17.5°	4426.1	4139.1	3348.9	2431.7	1547.5	834.9	587.9	543.3	529.2	519.7	515.0
20°	4423.7	4092.1	3125.5	2043.7	1032.4	569.1	508.0	491.5	470.4	463.3	463.3
22.5°	4383.7	3993.3	2857.4	1618.0	658.5	489.2	456.2	430.4	406.9	397.5	395.1
25°	4372.0	3878.1	2605.8	1215.9	500.9	437.4	404.5	366.9	338.7	324.5	317.5
27.5°	4339.0	3779.3	2351.8	856.0	437.4	390.4	348.1	308.1	275.2	254.0	251.6
30°	4221.5	3675.8	2069.6	592.6	397.5	345.7	298.7	251.6	218.7	204.6	199.9
32.5°	4172.1	3579.4	1761.5	456.2	362.2	305.7	251.6	209.3	183.4	169.3	167.0
35°	4113.3	3438.3	1462.8	397.5	329.2	265.8	211.7	176.4	155.2	143.5	143.5
37.5°	4120.3	3325.4	1182.9	359.8	294.0	228.1	181.1	150.5	131.7	119.9	119.9
40°	4099.2	3236.1	919.5	326.9	261.0	195.2	152.9	127.0	110.5	98.8	96.4
42.5°	4195.6	3212.5	693.8	298.7	228.1	167.0	131.7	108.2	91.7	77.6	77.6
45°	4357.9	3250.2	540.9	272.8	195.2	143.5	112.9	89.4	72.9	63.5	61.1
47.5°	4790.6	3398.3	423.3	251.6	167.0	124.6	94.1	72.9	58.8	49.4	47.0
50°	5418.5	3729.9	359.8	221.1	141.1	105.8	77.6	56.4	47.0	37.6	35.3
52.5°	6312.2	4287.3	326.9	195.2	117.6	87.0	61.1	44.7	35.3	28.2	25.9
55°	7285.8	4983.4	296.3	164.6	98.8	70.6	49.4	35.3	25.9	18.8	16.5
57.5°	8045.5	5585.5	270.5	136.4	80.0	56.4	37.6	25.9	18.8	11.8	9.4
60°	8875.6	6008.8	237.5	108.2	65.8	42.3	28.2	18.8	14.1	7.1	7.1
62.5°	9731.7	6505.0	195.2	84.7	51.7	32.9	21.2	14.1	9.4	2.4	2.4
65°	10921.7	6893.1	150.5	65.8	40.0	23.5	16.5	11.8	4.7	0.0	0.0
67.5°	11258.0	6702.6	110.5	51.7	28.2	16.5	11.8	7.1	2.4	0.0	0.0
69°	10921.7	6037.0	96.4	44.7	23.5	14.1	9.4	4.7	2.4	0.0	0.0
70°	10307.9	5519.6	84.7	37.6	21.2	14.1	7.1	4.7	2.4	0.0	0.0
72.5°	8621.6	4233.2	65.8	28.2	16.5	11.8	7.1	4.7	0.0	0.0	0.0
75°	6323.9	2615.2	49.4	21.2	14.1	9.4	7.1	4.7	0.0	0.0	0.0
77.5°	3388.9	954.8	35.3	14.1	9.4	7.1	7.1	4.7	0.0	0.0	0.0
80°	929.0	282.2	25.9	9.4	7.1	4.7	4.7	2.4	0.0	0.0	0.0
82.5°	254.0	72.9	16.5	9.4	7.1	4.7	2.4	0.0	0.0	0.0	0.0
85°	136.4	28.2	9.4	7.1	4.7	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	70.6	9.4	7.1	4.7	4.7	2.4	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)