

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: P484789

Luminaire Tested: **IFLD-S-SA3D-740-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484789  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

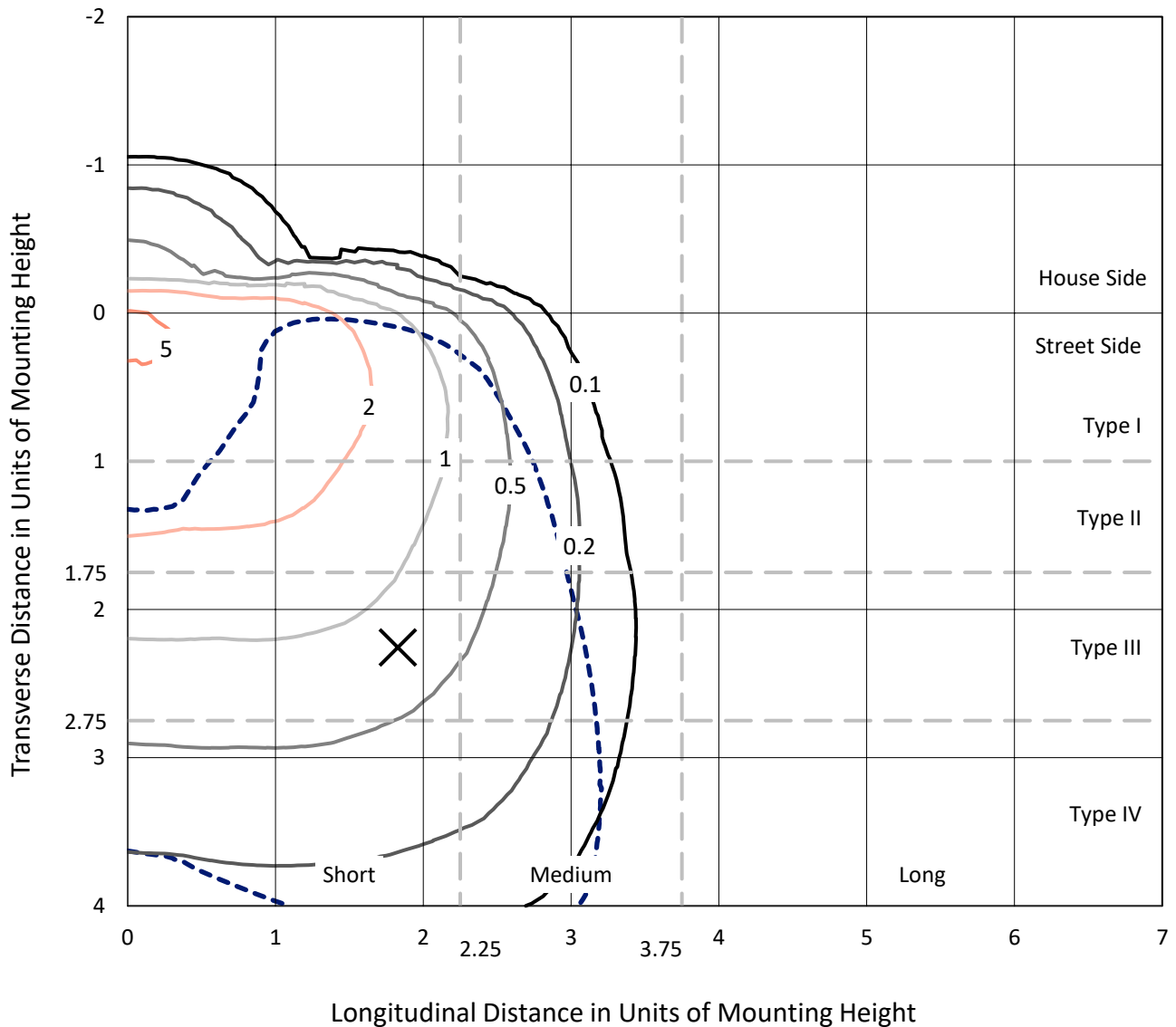
Lumens per Lamp: N/A  
Luminaire Lumens: 19254.3 lumens  
Efficiency: N/A  
Efficacy: 104.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 184.1  
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: P484789  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

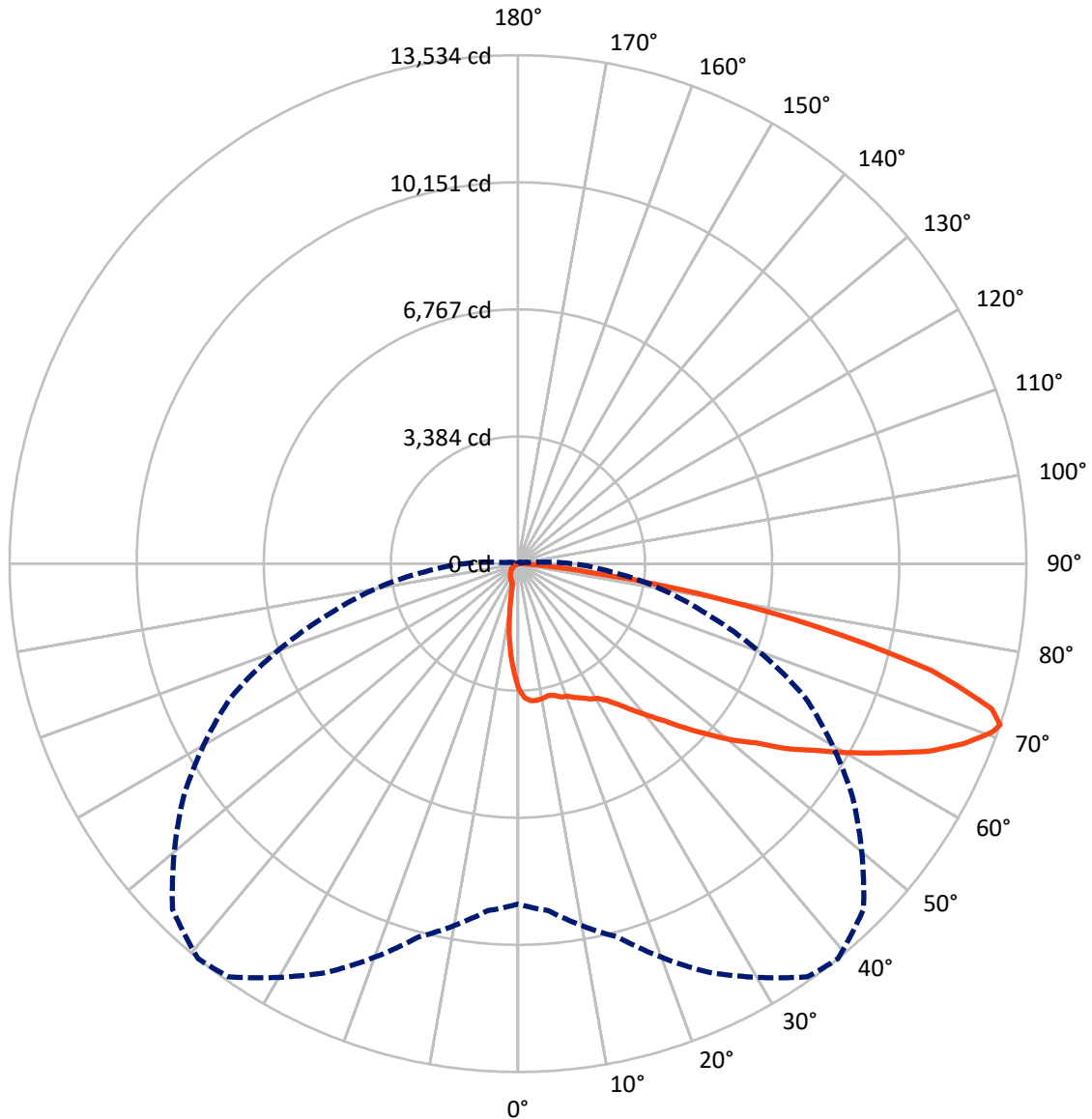
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484789  
CATALOG NUMBER: IFLD-S-SA3D-740-U-SL4-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P484789  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1449.5	0.0	1449.5
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	17804.8	0.0	17804.8
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	19254.3	0.0	19254.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.2	1.5
10°-20°	689.7	3.6
20°-30°	1107.1	5.8
30°-40°	1694.8	8.8
40°-50°	2720.4	14.1
50°-60°	3995.8	20.8
60°-70°	5032.5	26.1
70°-80°	3358.6	17.4
80°-90°	375.3	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°	19254.3	100.0
0°-180°	19254.3	100.0

**Coefficient of Utilization**



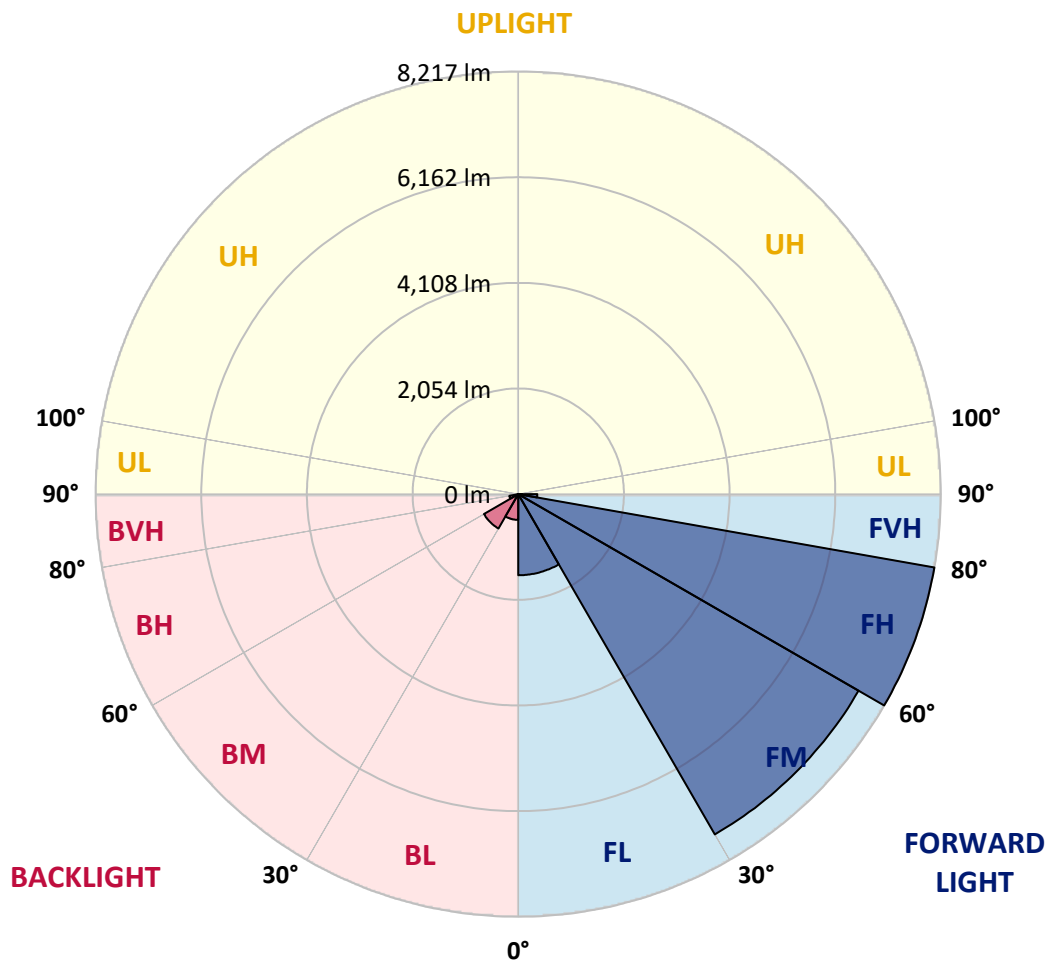
REPORT NUMBER: P484789  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1576.5	8.2			
FM (30°-60°)	7640.4	39.7			
FH (60°-80°)	8216.7	42.7			G4/12000
FVH (80°-90°)	371.2	1.9			G3/500
BL (0°-30°)	500.5	2.6	B2/1000		
BM (30°-60°)	770.5	4.0	B1/1000		
BH (60°-80°)	174.5	0.9	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





REPORT NUMBER: P484789

CATALOG NUMBER: IFLD-S-SA3D-740-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3
2.5°	3611.5	3646.8	3611.5	3596.3	3581.2	3583.7	3543.3	3550.9	3502.9	3439.7	3389.2
5°	3725.1	3773.1	3735.2	3717.5	3715.0	3667.0	3646.8	3598.8	3540.8	3442.3	3381.6
7.5°	3715.0	3704.9	3722.6	3707.4	3674.6	3674.6	3651.9	3583.7	3525.6	3414.5	3310.9
10°	3639.2	3669.6	3654.4	3636.7	3644.3	3646.8	3603.9	3555.9	3538.2	3427.1	3257.9
12.5°	3631.7	3581.2	3636.7	3639.2	3606.4	3603.9	3598.8	3586.2	3530.6	3429.6	3270.5
15°	3606.4	3586.2	3641.8	3644.3	3651.9	3644.3	3651.9	3641.8	3586.2	3528.1	3326.1
17.5°	3626.6	3603.9	3682.2	3720.1	3702.4	3737.7	3725.1	3679.7	3631.7	3563.5	3379.1
20°	3631.7	3664.5	3750.4	3765.5	3821.1	3763.0	3760.5	3712.5	3682.2	3608.9	3412.0
22.5°	3725.1	3740.3	3846.3	3879.2	3881.7	3874.1	3811.0	3755.4	3742.8	3651.9	3419.5
25°	3866.5	3919.6	3967.6	3987.8	3995.3	3960.0	3894.3	3823.6	3793.3	3735.2	3497.8
27.5°	4116.6	4083.7	4126.7	4157.0	4071.1	4083.7	4000.4	3939.8	3896.8	3846.3	3588.7
30°	4338.8	4308.5	4311.0	4306.0	4232.7	4164.5	4141.8	4035.7	3982.7	4002.9	3730.2
32.5°	4538.3	4472.7	4528.2	4503.0	4366.6	4346.4	4328.7	4194.9	4205.0	4298.4	3942.3
35°	4722.7	4700.0	4745.4	4700.0	4609.0	4604.0	4586.3	4470.1	4525.7	4659.5	4306.0
37.5°	4891.9	4899.5	4955.0	4932.3	4939.9	4944.9	4934.8	4811.1	4970.2	5270.7	4730.3
40°	5048.5	5038.4	5174.7	5245.5	5260.6	5316.2	5316.2	5285.9	5530.8	5869.3	5318.7
42.5°	5215.2	5240.4	5417.2	5535.9	5679.8	5727.8	5793.5	5808.7	6187.5	6573.9	5919.8
45°	5487.9	5445.0	5669.7	5950.1	6076.4	6245.6	6346.6	6432.4	6889.6	7419.9	6520.8
47.5°	5833.9	5748.0	5945.0	6351.6	6644.6	6783.5	6965.3	7079.0	7526.0	8074.0	7089.1
50°	6217.8	6129.4	6225.4	6786.0	7127.0	7379.5	7611.9	7755.8	8296.3	8806.4	7503.3
52.5°	6652.2	6571.4	6586.5	7238.1	7740.7	7925.0	8230.6	8445.3	8983.2	9248.4	7649.7
55°	7114.3	7094.1	7046.1	7680.0	8278.6	8692.8	8877.1	9134.7	9687.8	9488.3	7808.8
57.5°	7579.0	7515.9	7584.1	8266.0	9142.3	9389.8	9644.9	9798.9	10079.3	9697.9	7748.2
60°	8015.9	8021.0	8117.0	8902.4	9877.2	10228.3	10458.1	10364.7	10480.8	9788.8	7609.3
62.5°	8384.7	8374.6	8617.0	9617.1	10849.5	11086.9	11258.7	10842.0	10667.7	9877.2	7366.9
65°	8715.5	8829.1	9210.5	10468.2	11763.8	12036.5	11933.0	11294.0	10849.5	9617.1	6685.0
67.5°	8965.5	9134.7	9796.4	11268.8	12602.2	12794.2	12650.2	11637.5	10634.9	8596.8	5445.0
70°	9112.0	9283.7	10215.6	11935.5	13271.5	13410.4	13072.0	11372.3	9382.2	6225.4	3396.8
71°	9066.5	9276.2	10296.5	12006.2	13430.6	13534.2	13008.9	10882.4	8437.7	5212.6	2477.5
72.5°	8654.9	8851.9	9960.6	11955.7	13238.7	13175.5	12516.4	9705.5	6642.1	3323.6	1280.4
75°	6359.2	6571.4	8548.8	10341.9	11816.8	11382.4	10129.8	6811.3	3465.0	1017.8	373.8
77.5°	3167.0	3202.3	5306.1	7508.3	8667.5	8235.7	6788.5	3798.4	1295.6	300.5	186.9
80°	1459.7	1469.8	1990.1	3889.3	5240.4	4932.3	3803.4	1873.9	585.9	159.1	146.5
82.5°	995.0	1010.2	1199.6	1611.3	2275.5	1919.4	1540.6	1199.6	335.9	96.0	144.0
85°	181.8	166.7	671.8	853.6	878.9	596.0	532.9	1038.0	126.3	55.6	126.3
87.5°	0.0	2.5	93.4	348.5	313.2	138.9	181.8	252.6	12.6	17.7	22.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484789

CATALOG NUMBER: IFLD-S-SA3D-740-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3	3351.3
2.5°	3346.3	3318.5	3225.1	3121.5	3028.1	2954.8	2861.4	2818.5	2750.3	2712.4	2709.9
5°	3298.3	3222.5	3060.9	2886.6	2692.2	2530.6	2351.2	2250.2	2134.0	2098.7	2091.1
7.5°	3217.5	3108.9	2871.5	2626.5	2328.5	2043.1	1823.4	1588.5	1444.6	1384.0	1361.2
10°	3167.0	3035.7	2712.4	2346.2	1929.5	1527.9	1219.8	969.8	838.5	775.3	760.2
12.5°	3167.0	3025.5	2583.6	2078.5	1525.4	1045.6	755.1	611.2	568.2	553.1	553.1
15°	3159.4	3005.3	2459.8	1803.2	1128.9	702.1	563.2	532.9	527.8	525.3	522.8
17.5°	3197.3	2970.0	2333.6	1507.7	798.1	553.1	517.7	512.7	507.6	507.6	502.6
20°	3225.1	2949.8	2182.0	1194.6	596.0	512.7	497.5	489.9	487.4	484.9	489.9
22.5°	3202.3	2919.5	1995.1	894.0	520.3	487.4	477.3	469.7	464.7	464.7	467.2
25°	3245.3	2891.7	1808.3	674.3	487.4	464.7	454.6	449.5	447.0	444.5	439.4
27.5°	3303.4	2904.3	1586.0	543.0	459.6	442.0	431.9	426.8	424.3	419.2	424.3
30°	3374.1	2901.8	1341.0	474.8	434.4	416.7	406.6	404.1	399.0	396.5	399.0
32.5°	3495.3	2967.5	1088.5	439.4	406.6	391.5	381.4	378.8	376.3	373.8	371.2
35°	3755.4	3048.3	851.1	411.7	381.4	363.7	356.1	351.0	348.5	346.0	343.5
37.5°	4076.2	3227.6	649.1	386.4	356.1	338.4	330.8	328.3	318.2	315.7	313.2
40°	4477.7	3419.5	500.0	358.6	333.4	315.7	308.1	300.5	287.9	282.9	277.8
42.5°	4977.8	3606.4	411.7	333.4	308.1	295.5	282.9	270.2	260.1	250.0	245.0
45°	5477.8	3823.6	361.1	310.6	287.9	272.8	262.7	245.0	227.3	212.1	209.6
47.5°	5894.5	3901.9	330.8	285.4	267.7	255.1	239.9	217.2	191.9	176.8	174.3
50°	6205.2	3856.4	300.5	260.1	245.0	232.3	212.1	184.4	159.1	144.0	138.9
52.5°	6265.8	3656.9	272.8	239.9	222.2	207.1	184.4	154.1	126.3	111.1	108.6
55°	6222.8	3326.1	250.0	222.2	202.0	179.3	154.1	123.7	98.5	83.3	80.8
57.5°	6134.4	2934.6	224.8	199.5	176.8	154.1	126.3	101.0	73.2	58.1	58.1
60°	5833.9	2401.8	199.5	174.3	151.5	131.3	103.5	73.2	50.5	37.9	35.4
62.5°	5414.7	1846.1	174.3	149.0	131.3	108.6	80.8	53.0	30.3	20.2	20.2
65°	4649.4	1293.1	146.5	123.7	108.6	88.4	60.6	32.8	17.7	7.6	7.6
67.5°	3533.2	800.6	121.2	103.5	93.4	70.7	42.9	20.2	7.6	2.5	0.0
70°	2028.0	416.7	96.0	83.3	73.2	53.0	30.3	10.1	5.1	0.0	0.0
71°	1416.8	308.1	85.9	73.2	65.7	48.0	25.3	7.6	2.5	0.0	0.0
72.5°	709.7	204.6	73.2	60.6	53.0	37.9	20.2	7.6	2.5	0.0	0.0
75°	252.6	131.3	50.5	40.4	37.9	27.8	12.6	5.1	2.5	0.0	0.0
77.5°	174.3	106.1	35.4	25.3	25.3	17.7	7.6	2.5	2.5	0.0	0.0
80°	159.1	58.1	22.7	15.2	12.6	10.1	5.1	2.5	0.0	0.0	0.0
82.5°	159.1	42.9	12.6	10.1	7.6	5.1	2.5	0.0	0.0	0.0	0.0
85°	111.1	22.7	7.6	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	7.6	5.1	2.5	2.5	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)