

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: P484685

Luminaire Tested: **IFLD-S-SA6B-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484685
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

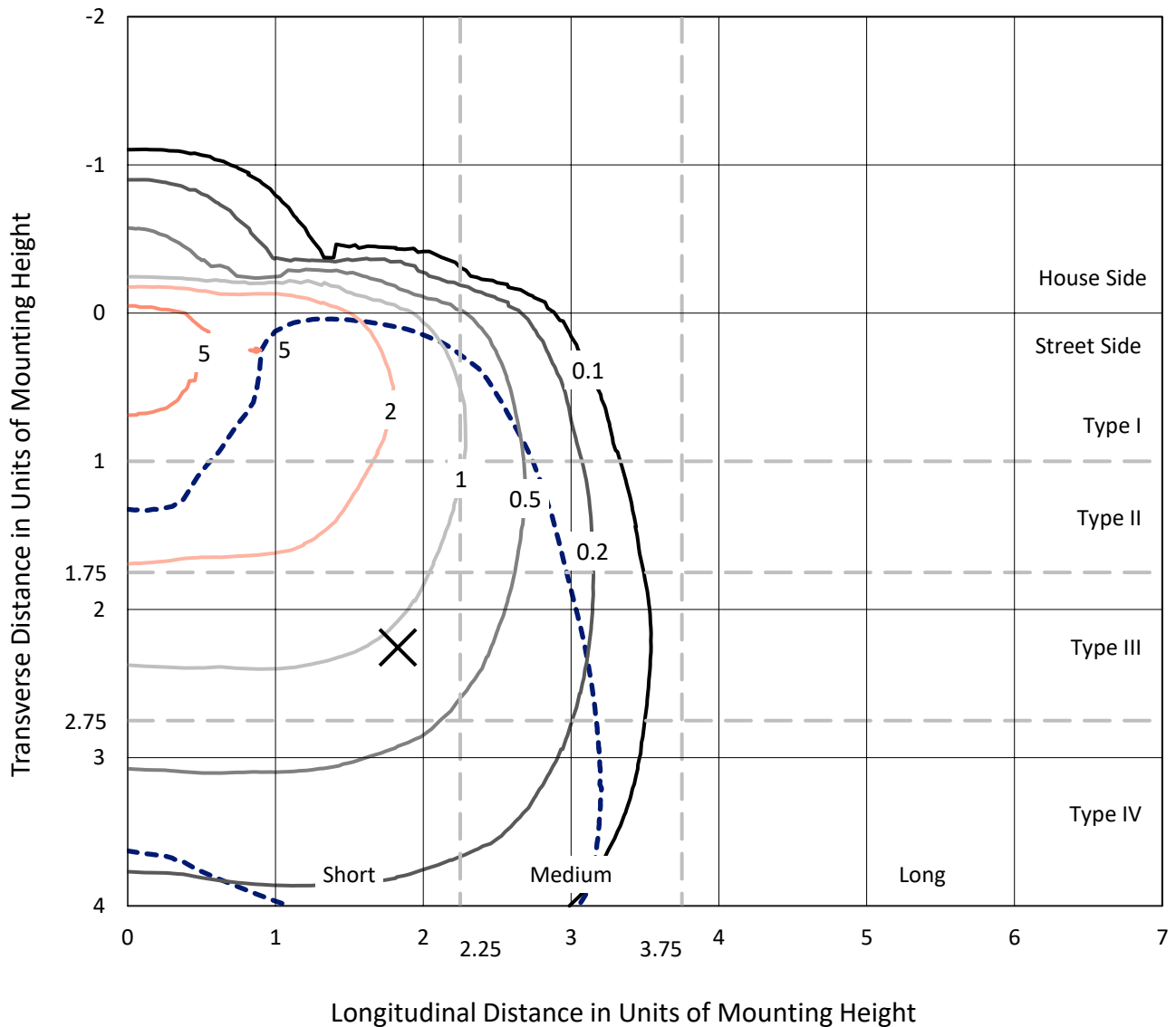
Lumens per Lamp: N/A
Luminaire Lumens: 23061.4 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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: P484685
 CATALOG NUMBER: IFLD-S-SA6B-727-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

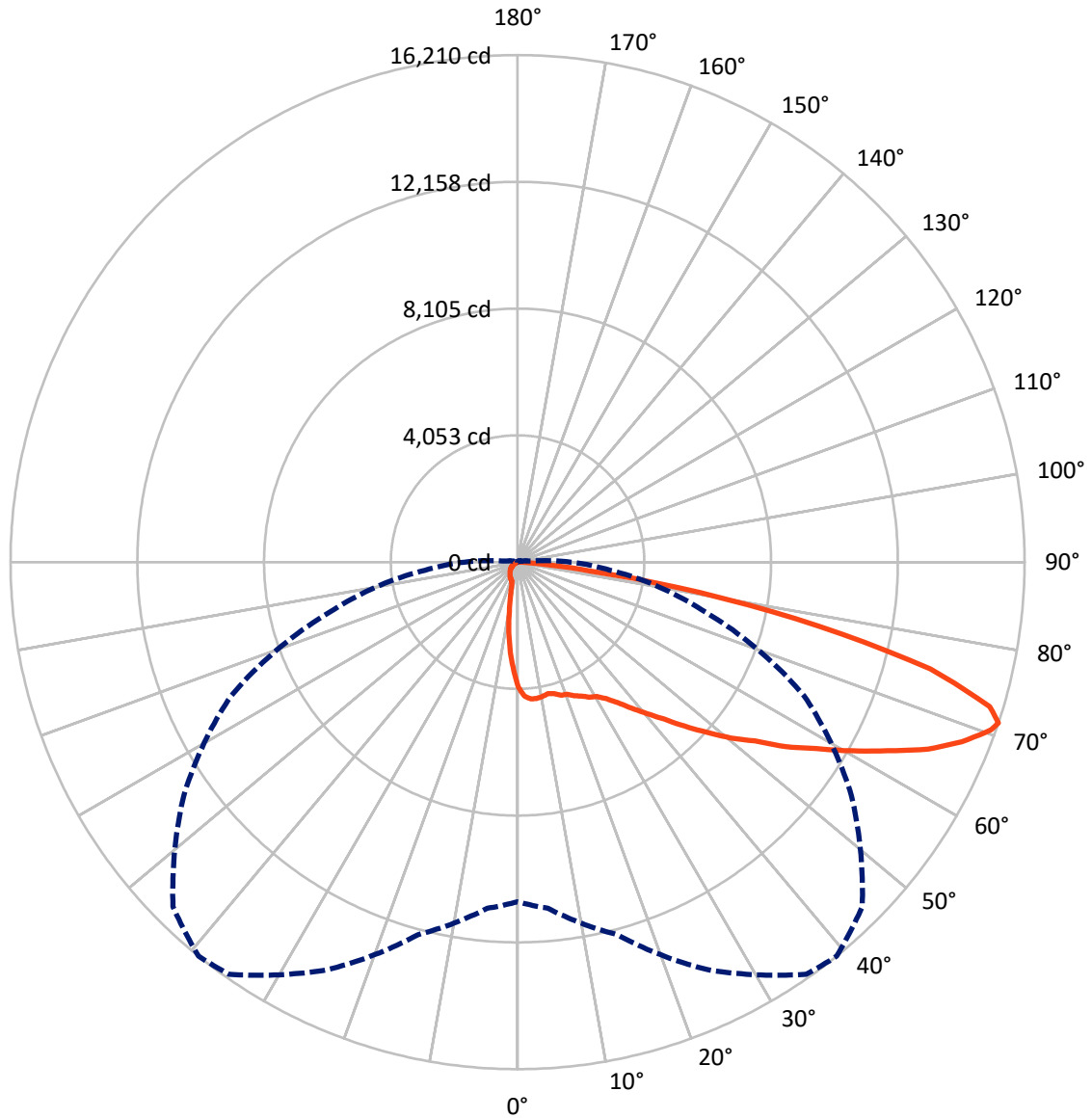
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P484685
CATALOG NUMBER: IFLD-S-SA6B-727-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484685
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1736.2	0.0	1736.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	21325.3	0.0	21325.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	23061.4	0.0	23061.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.6	1.5
10°-20°	826.0	3.6
20°-30°	1326.0	5.8
30°-40°	2029.8	8.8
40°-50°	3258.3	14.1
50°-60°	4785.9	20.8
60°-70°	6027.6	26.1
70°-80°	4022.7	17.4
80°-90°	449.5	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°	23061.4	100.0
0°-180°	23061.4	100.0



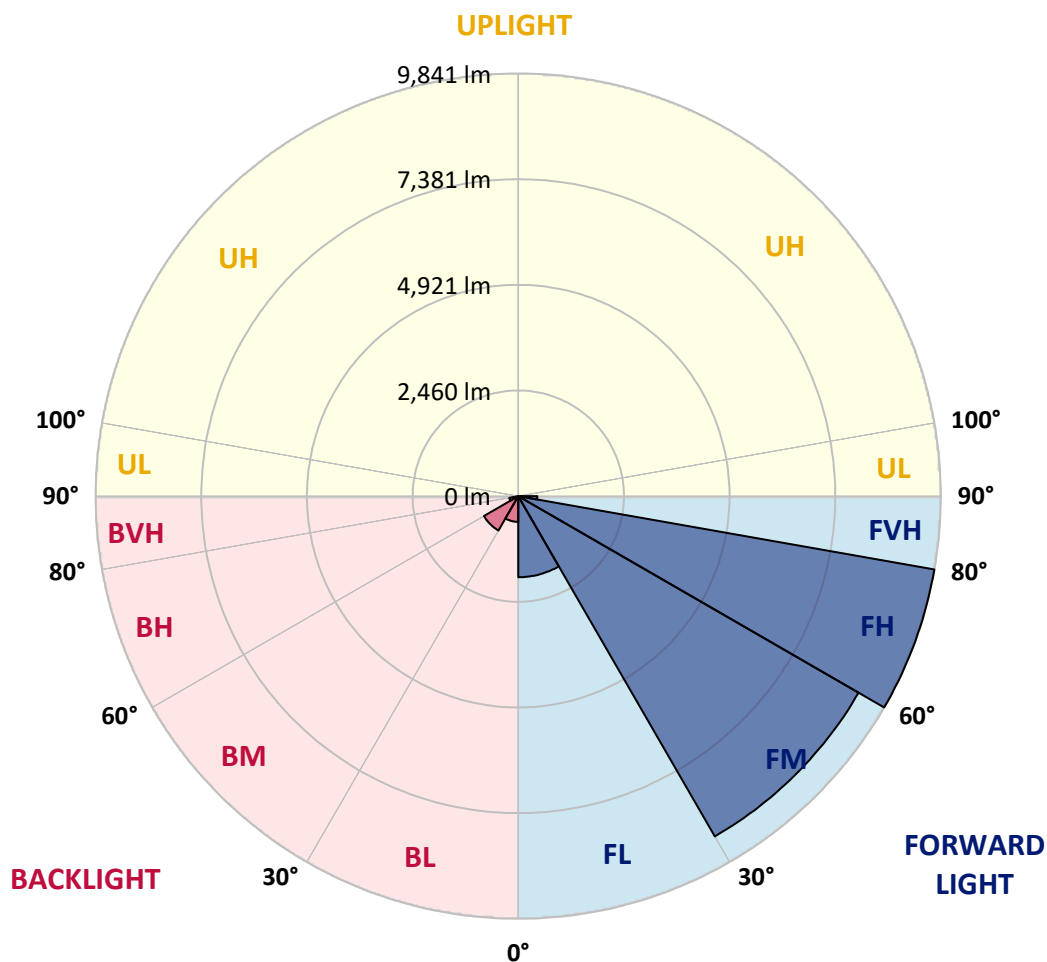
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.2	8.2			
FM (30°-60°)	9151.1	39.7			
FH (60°-80°)	9841.3	42.7			G4/12000
FVH (80°-90°)	444.6	1.9			G3/500
BL (0°-30°)	599.4	2.6	B2/1000		
BM (30°-60°)	922.8	4.0	B1/1000		
BH (60°-80°)	209.0	0.9	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P484685

CATALOG NUMBER: IFLD-S-SA6B-727-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0
2.5°	4325.5	4367.9	4325.5	4307.4	4289.2	4292.3	4243.9	4253.0	4195.5	4119.9	4059.4
5°	4461.7	4519.1	4473.8	4452.6	4449.6	4392.1	4367.9	4310.4	4240.9	4122.9	4050.3
7.5°	4449.6	4437.5	4458.6	4440.5	4401.2	4401.2	4373.9	4292.3	4222.7	4089.6	3965.6
10°	4358.8	4395.1	4377.0	4355.8	4364.9	4367.9	4316.5	4259.0	4237.8	4104.7	3902.1
12.5°	4349.7	4289.2	4355.8	4358.8	4319.5	4316.5	4310.4	4295.3	4228.8	4107.8	3917.2
15°	4319.5	4295.3	4361.8	4364.9	4373.9	4364.9	4373.9	4361.8	4295.3	4225.7	3983.7
17.5°	4343.7	4316.5	4410.2	4455.6	4434.4	4476.8	4461.7	4407.2	4349.7	4268.1	4047.3
20°	4349.7	4389.1	4491.9	4510.1	4576.6	4507.0	4504.0	4446.5	4410.2	4322.5	4086.6
22.5°	4461.7	4479.8	4606.9	4646.2	4649.2	4640.1	4564.5	4498.0	4482.8	4373.9	4095.7
25°	4631.1	4694.6	4752.1	4776.3	4785.3	4743.0	4664.3	4579.6	4543.3	4473.8	4189.4
27.5°	4930.5	4891.2	4942.6	4978.9	4876.1	4891.2	4791.4	4718.8	4667.4	4606.9	4298.3
30°	5196.7	5160.4	5163.4	5157.4	5069.7	4988.0	4960.8	4833.7	4770.2	4794.4	4467.7
32.5°	5435.7	5357.0	5423.6	5393.3	5230.0	5205.8	5184.6	5024.3	5036.4	5148.3	4721.8
35°	5656.5	5629.3	5683.7	5629.3	5520.4	5514.3	5493.1	5354.0	5420.5	5580.9	5157.4
37.5°	5859.2	5868.2	5934.8	5907.5	5916.6	5922.7	5910.6	5762.4	5952.9	6312.9	5665.6
40°	6046.7	6034.6	6197.9	6282.6	6300.8	6367.3	6367.3	6331.0	6624.4	7029.8	6370.4
42.5°	6246.3	6276.6	6488.3	6630.5	6802.9	6860.4	6939.0	6957.2	7410.9	7873.7	7090.3
45°	6573.0	6521.6	6790.8	7126.6	7277.8	7480.5	7601.5	7704.3	8251.8	8887.0	7810.2
47.5°	6987.4	6884.6	7120.5	7607.5	7958.4	8124.8	8342.6	8478.7	9014.1	9670.5	8490.8
50°	7447.2	7341.3	7456.3	8127.8	8536.2	8838.6	9116.9	9289.3	9936.7	10547.7	8986.9
52.5°	7967.5	7870.7	7888.8	8669.2	9271.2	9492.0	9858.0	10115.1	10759.4	11077.0	9162.3
55°	8521.0	8496.8	8439.4	9198.6	9915.5	10411.6	10632.4	10940.9	11603.4	11364.4	9352.9
57.5°	9077.6	9002.0	9083.6	9900.4	10950.0	11246.4	11551.9	11736.5	12072.2	11615.5	9280.3
60°	9600.9	9607.0	9721.9	10662.6	11830.2	12250.7	12525.9	12414.0	12553.2	11724.4	9113.9
62.5°	10042.5	10030.4	10320.8	11518.7	12994.8	13279.1	13484.8	12985.7	12777.0	11830.2	8823.5
65°	10438.8	10574.9	11031.7	12538.0	14089.8	14416.5	14292.5	13527.2	12994.8	11518.7	8006.8
67.5°	10738.2	10940.9	11733.4	13496.9	15094.0	15323.9	15151.5	13938.5	12737.7	10296.6	6521.6
70°	10913.7	11119.4	12235.6	14295.5	15895.6	16062.0	15656.7	13620.9	11237.3	7456.3	4068.4
71°	10859.2	11110.3	12332.3	14380.2	16086.2	16210.2	15581.0	13034.1	10106.1	6243.3	2967.4
72.5°	10366.2	10602.1	11930.0	14319.7	15856.3	15780.7	14991.2	11624.5	7955.4	3980.7	1533.6
75°	7616.6	7870.7	10239.1	12386.8	14153.3	13633.0	12132.7	8158.0	4150.1	1219.0	447.7
77.5°	3793.2	3835.5	6355.2	8992.9	10381.3	9864.1	8130.8	4549.4	1551.8	360.0	223.8
80°	1748.4	1760.5	2383.6	4658.3	6276.6	5907.5	4555.4	2244.4	701.8	190.6	175.4
82.5°	1191.8	1209.9	1436.8	1929.9	2725.4	2298.9	1845.2	1436.8	402.3	114.9	172.4
85°	217.8	199.6	804.6	1022.4	1052.7	713.9	638.2	1243.2	151.2	66.5	151.2
87.5°	0.0	3.0	111.9	417.4	375.1	166.4	217.8	302.5	15.1	21.2	27.2
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°	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0	4014.0
2.5°	4007.9	3974.7	3862.7	3738.7	3626.8	3539.1	3427.2	3375.7	3294.1	3248.7	3245.7
5°	3950.5	3859.7	3666.1	3457.4	3224.5	3030.9	2816.1	2695.1	2556.0	2513.7	2504.6
7.5°	3853.7	3723.6	3439.3	3145.9	2788.9	2447.1	2183.9	1902.6	1730.2	1657.6	1630.4
10°	3793.2	3635.9	3248.7	2810.1	2311.0	1830.0	1461.0	1161.5	1004.3	928.6	910.5
12.5°	3793.2	3623.8	3094.4	2489.5	1827.0	1252.3	904.4	732.0	680.6	662.4	662.4
15°	3784.1	3599.6	2946.2	2159.7	1352.1	840.9	674.5	638.2	632.2	629.2	626.1
17.5°	3829.5	3557.2	2795.0	1805.8	955.9	662.4	620.1	614.0	608.0	608.0	601.9
20°	3862.7	3533.0	2613.5	1430.8	713.9	614.0	595.9	586.8	583.8	580.8	586.8
22.5°	3835.5	3496.7	2389.6	1070.8	623.1	583.8	571.7	562.6	556.6	556.6	559.6
25°	3886.9	3463.5	2165.8	807.6	583.8	556.6	544.5	538.4	535.4	532.4	526.3
27.5°	3956.5	3478.6	1899.6	650.3	550.5	529.4	517.3	511.2	508.2	502.1	508.2
30°	4041.2	3475.6	1606.2	568.7	520.3	499.1	487.0	484.0	477.9	474.9	477.9
32.5°	4186.4	3554.2	1303.7	526.3	487.0	468.9	456.8	453.7	450.7	447.7	444.7
35°	4498.0	3651.0	1019.4	493.1	456.8	435.6	426.5	420.5	417.4	414.4	411.4
37.5°	4882.1	3865.8	777.4	462.8	426.5	405.3	396.3	393.2	381.1	378.1	375.1
40°	5363.1	4095.7	598.9	429.5	399.3	378.1	369.0	360.0	344.8	338.8	332.7
42.5°	5962.0	4319.5	493.1	399.3	369.0	353.9	338.8	323.7	311.6	299.5	293.4
45°	6560.9	4579.6	432.6	372.1	344.8	326.7	314.6	293.4	272.2	254.1	251.1
47.5°	7060.0	4673.4	396.3	341.8	320.6	305.5	287.4	260.1	229.9	211.7	208.7
50°	7432.1	4619.0	360.0	311.6	293.4	278.3	254.1	220.8	190.6	172.4	166.4
52.5°	7504.7	4380.0	326.7	287.4	266.2	248.0	220.8	184.5	151.2	133.1	130.1
55°	7453.3	3983.7	299.5	266.2	242.0	214.8	184.5	148.2	118.0	99.8	96.8
57.5°	7347.4	3514.9	269.2	239.0	211.7	184.5	151.2	121.0	87.7	69.6	69.6
60°	6987.4	2876.6	239.0	208.7	181.5	157.3	124.0	87.7	60.5	45.4	42.3
62.5°	6485.3	2211.2	208.7	178.5	157.3	130.1	96.8	63.5	36.3	24.2	24.2
65°	5568.8	1548.7	175.4	148.2	130.1	105.9	72.6	39.3	21.2	9.1	9.1
67.5°	4231.8	958.9	145.2	124.0	111.9	84.7	51.4	24.2	9.1	3.0	0.0
70°	2429.0	499.1	114.9	99.8	87.7	63.5	36.3	12.1	6.0	0.0	0.0
71°	1696.9	369.0	102.8	87.7	78.6	57.5	30.2	9.1	3.0	0.0	0.0
72.5°	850.0	245.0	87.7	72.6	63.5	45.4	24.2	9.1	3.0	0.0	0.0
75°	302.5	157.3	60.5	48.4	45.4	33.3	15.1	6.0	3.0	0.0	0.0
77.5°	208.7	127.0	42.3	30.2	30.2	21.2	9.1	3.0	3.0	0.0	0.0
80°	190.6	69.6	27.2	18.1	15.1	12.1	6.0	3.0	0.0	0.0	0.0
82.5°	190.6	51.4	15.1	12.1	9.1	6.0	3.0	0.0	0.0	0.0	0.0
85°	133.1	27.2	9.1	9.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.2	9.1	6.0	3.0	3.0	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)