

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: P484699

Luminaire Tested: **IFLD-L-SA8A-727-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484699  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-727-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

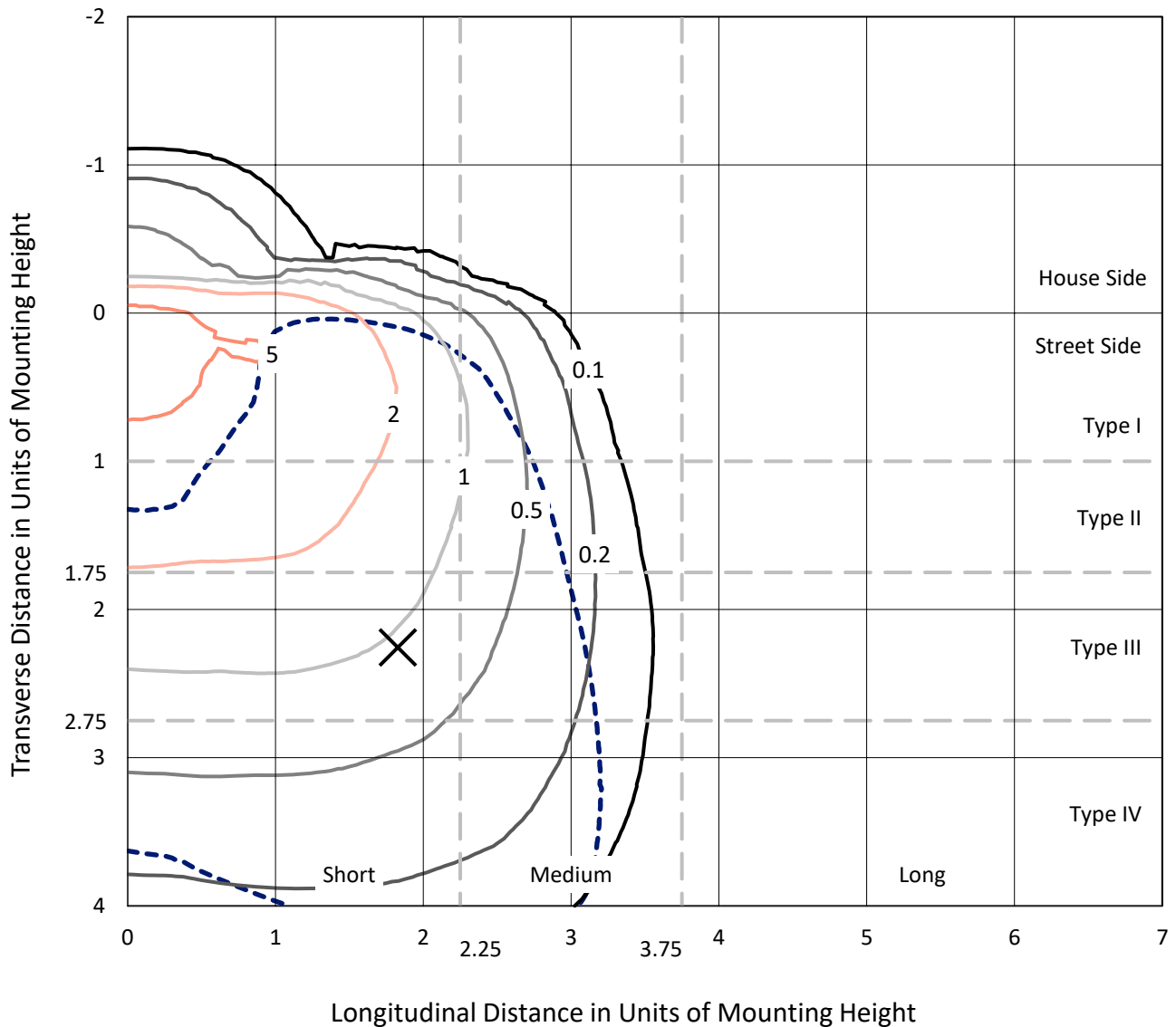
Lumens per Lamp: N/A  
Luminaire Lumens: 23667 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 247.8  
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

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### Iso-Footcandle Lines of Horizontal Illumination

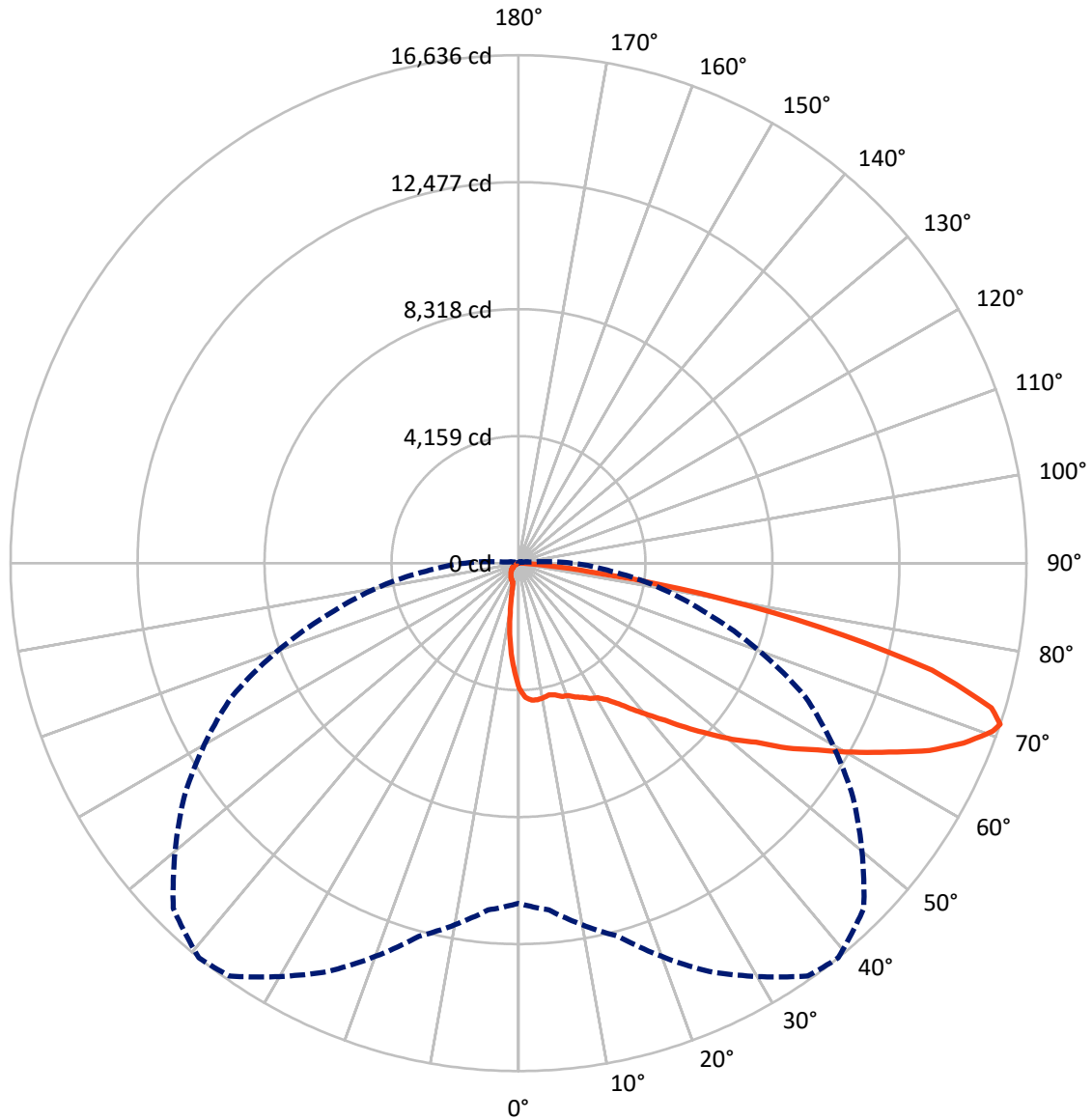
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

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### 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
<b>House Side</b>	Lumens	1781.7	0.0	1781.7
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	21885.3	0.0	21885.3
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	23667.0	0.0	23667.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.4	1.5
10°-20°	847.7	3.6
20°-30°	1360.9	5.8
30°-40°	2083.1	8.8
40°-50°	3343.8	14.1
50°-60°	4911.5	20.8
60°-70°	6185.9	26.1
70°-80°	4128.3	17.4
80°-90°	461.4	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°	23667.0	100.0
0°-180°	23667.0	100.0

**Coefficient of Utilization**



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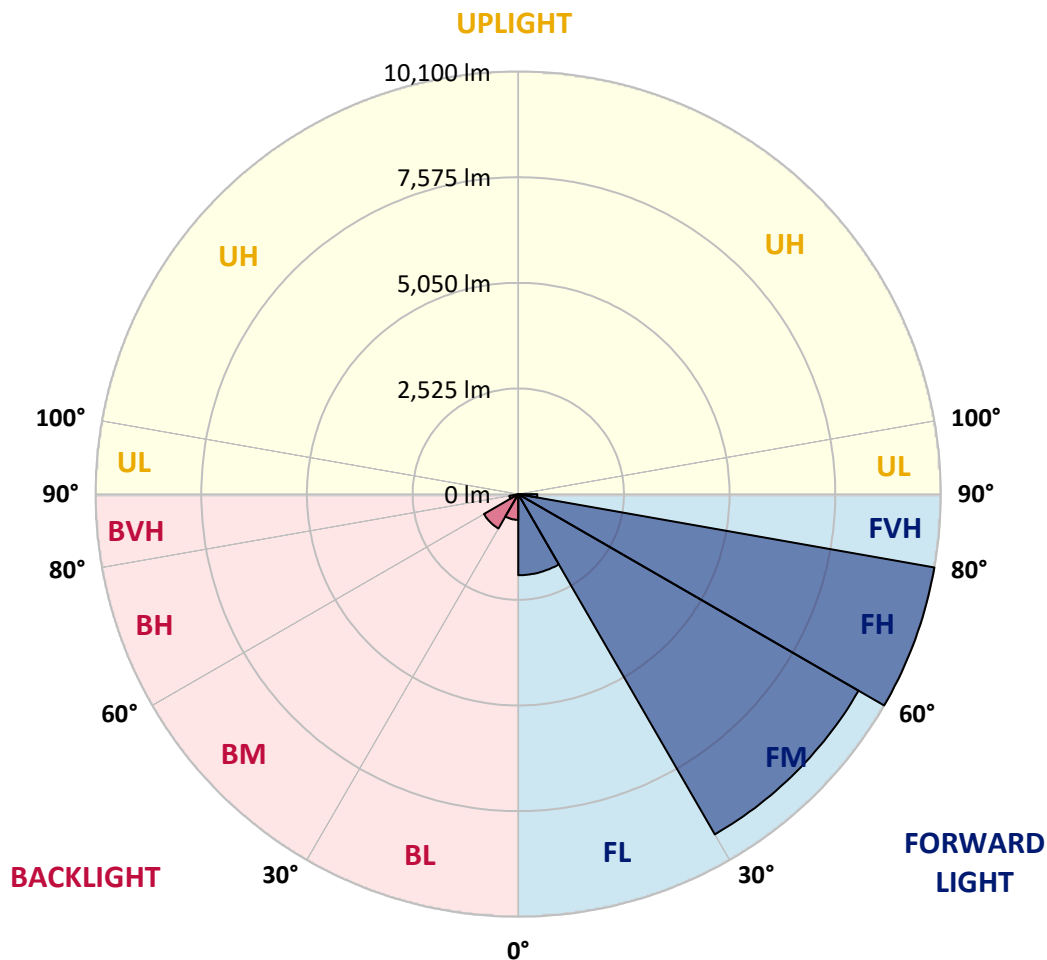
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.8	8.2			
FM (30°-60°)	9391.4	39.7			
FH (60°-80°)	10099.7	42.7			G4/12000
FVH (80°-90°)	456.3	1.9			G3/500
BL (0°-30°)	615.2	2.6	B2/1000		
BM (30°-60°)	947.1	4.0	B1/1000		
BH (60°-80°)	214.4	0.9	B1/500		G1/500
BVH (80°-90°)	5.1	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4
2.5°	4439.1	4482.6	4439.1	4420.5	4401.9	4405.0	4355.3	4364.6	4305.7	4228.0	4166.0
5°	4578.8	4637.8	4591.2	4569.5	4566.4	4507.4	4482.6	4423.6	4352.2	4231.2	4156.6
7.5°	4566.4	4554.0	4575.7	4557.1	4516.7	4516.7	4488.8	4405.0	4333.6	4197.0	4069.7
10°	4473.3	4510.5	4491.9	4470.2	4479.5	4482.6	4429.8	4370.8	4349.1	4212.5	4004.5
12.5°	4464.0	4401.9	4470.2	4473.3	4432.9	4429.8	4423.6	4408.1	4339.8	4215.6	4020.1
15°	4432.9	4408.1	4476.4	4479.5	4488.8	4479.5	4488.8	4476.4	4408.1	4336.7	4088.4
17.5°	4457.8	4429.8	4526.1	4572.6	4550.9	4594.4	4578.8	4523.0	4464.0	4380.2	4153.5
20°	4464.0	4504.3	4609.9	4628.5	4696.8	4625.4	4622.3	4563.3	4526.1	4436.0	4193.9
22.5°	4578.8	4597.5	4727.8	4768.2	4771.3	4762.0	4684.4	4616.1	4600.6	4488.8	4203.2
25°	4752.7	4817.9	4876.8	4901.7	4911.0	4867.5	4786.8	4699.9	4662.6	4591.2	4299.4
27.5°	5060.0	5019.6	5072.4	5109.7	5004.1	5019.6	4917.2	4842.7	4789.9	4727.8	4411.2
30°	5333.2	5295.9	5299.0	5292.8	5202.8	5119.0	5091.0	4960.7	4895.5	4920.3	4585.0
32.5°	5578.4	5497.7	5566.0	5535.0	5367.3	5342.5	5320.8	5156.2	5168.6	5283.5	4845.8
35°	5805.0	5777.1	5833.0	5777.1	5665.3	5659.1	5637.4	5494.6	5562.9	5727.4	5292.8
37.5°	6013.0	6022.3	6090.6	6062.7	6072.0	6078.2	6065.8	5913.7	6109.2	6478.7	5814.3
40°	6205.5	6193.1	6360.7	6447.6	6466.2	6534.5	6534.5	6497.3	6798.4	7214.4	6537.6
42.5°	6410.4	6441.4	6658.7	6804.6	6981.6	7040.5	7121.2	7139.9	7605.5	8080.5	7276.5
45°	6745.6	6692.9	6969.1	7313.7	7468.9	7676.9	7801.1	7906.6	8468.5	9120.4	8015.3
47.5°	7170.9	7065.4	7307.5	7807.3	8167.4	8338.1	8561.6	8701.3	9250.8	9924.4	8713.7
50°	7642.8	7534.1	7652.1	8341.2	8760.3	9070.7	9356.3	9533.3	10197.6	10824.7	9222.9
52.5°	8176.7	8077.4	8096.0	8896.9	9514.7	9741.3	10116.9	10380.8	11042.0	11367.9	9402.9
55°	8744.8	8720.0	8661.0	9440.2	10175.9	10685.0	10911.6	11228.2	11908.1	11662.8	9598.5
57.5°	9316.0	9238.4	9322.2	10160.3	11237.5	11541.8	11855.3	12044.7	12389.2	11920.5	9524.0
60°	9853.0	9859.2	9977.2	10942.6	12140.9	12572.4	12854.9	12740.0	12882.8	12032.2	9353.2
62.5°	10306.3	10293.8	10591.8	11821.1	13336.0	13627.8	13838.9	13326.7	13112.5	12140.9	9055.2
65°	10712.9	10852.6	11321.4	12867.3	14459.8	14795.1	14667.8	13882.4	13336.0	11821.1	8217.1
67.5°	11020.2	11228.2	12041.5	13851.4	15490.4	15726.3	15549.4	14304.6	13072.2	10567.0	6692.9
70°	11200.3	11411.4	12556.9	14670.9	16313.1	16483.8	16067.8	13978.6	11532.4	7652.1	4175.3
71°	11144.4	11402.1	12656.2	14757.8	16508.6	16635.9	15990.2	13376.4	10371.4	6407.3	3045.3
72.5°	10638.4	10880.5	12243.3	14695.7	16272.7	16195.1	15384.9	11929.8	8164.3	4085.2	1573.9
75°	7816.6	8077.4	10508.0	12712.1	14525.0	13991.0	12451.3	8372.3	4259.1	1251.0	459.4
77.5°	3892.8	3936.2	6522.1	9229.1	10653.9	10123.1	8344.3	4668.9	1592.5	369.4	229.7
80°	1794.3	1806.7	2446.2	4780.6	6441.4	6062.7	4675.1	2303.4	720.2	195.6	180.0
82.5°	1223.1	1241.7	1474.5	1980.5	2797.0	2359.3	1893.6	1474.5	412.9	118.0	176.9
85°	223.5	204.9	825.7	1049.3	1080.3	732.6	655.0	1275.9	155.2	68.3	155.2
87.5°	0.0	3.1	114.9	428.4	384.9	170.7	223.5	310.4	15.5	21.7	27.9
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°	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4	4119.4
2.5°	4113.2	4079.0	3964.2	3836.9	3722.0	3632.0	3517.2	3464.4	3380.6	3334.0	3330.9
5°	4054.2	3961.1	3762.4	3548.2	3309.2	3110.5	2890.1	2765.9	2623.1	2579.7	2570.4
7.5°	3954.9	3821.4	3529.6	3228.5	2862.2	2511.4	2241.3	1952.6	1775.7	1701.2	1673.2
10°	3892.8	3731.4	3334.0	2883.9	2371.7	1878.1	1499.4	1192.0	1030.6	953.0	934.4
12.5°	3892.8	3718.9	3175.7	2554.8	1875.0	1285.2	928.2	751.2	698.5	679.8	679.8
15°	3883.5	3694.1	3023.6	2216.5	1387.6	863.0	692.3	655.0	648.8	645.7	642.6
17.5°	3930.0	3650.6	2868.4	1853.3	981.0	679.8	636.4	630.2	624.0	624.0	617.8
20°	3964.2	3625.8	2682.1	1468.3	732.6	630.2	611.5	602.2	599.1	596.0	602.2
22.5°	3936.2	3588.6	2452.4	1098.9	639.5	599.1	586.7	577.4	571.2	571.2	574.3
25°	3989.0	3554.4	2222.7	828.8	599.1	571.2	558.8	552.6	549.5	546.4	540.1
27.5°	4060.4	3569.9	1949.5	667.4	565.0	543.3	530.8	524.6	521.5	515.3	521.5
30°	4147.3	3566.8	1648.4	583.6	533.9	512.2	499.8	496.7	490.5	487.4	490.5
32.5°	4296.3	3647.5	1337.9	540.1	499.8	481.2	468.7	465.6	462.5	459.4	456.3
35°	4616.1	3746.9	1046.1	506.0	468.7	447.0	437.7	431.5	428.4	425.3	422.2
37.5°	5010.3	3967.3	797.8	475.0	437.7	416.0	406.7	403.6	391.1	388.0	384.9
40°	5503.9	4203.2	614.6	440.8	409.8	388.0	378.7	369.4	353.9	347.7	341.5
42.5°	6118.6	4432.9	506.0	409.8	378.7	363.2	347.7	332.2	319.7	307.3	301.1
45°	6733.2	4699.9	443.9	381.8	353.9	335.3	322.8	301.1	279.4	260.8	257.7
47.5°	7245.4	4796.1	406.7	350.8	329.1	313.5	294.9	267.0	235.9	217.3	214.2
50°	7627.2	4740.3	369.4	319.7	301.1	285.6	260.8	226.6	195.6	176.9	170.7
52.5°	7701.7	4495.0	335.3	294.9	273.2	254.6	226.6	189.4	155.2	136.6	133.5
55°	7649.0	4088.4	307.3	273.2	248.3	220.4	189.4	152.1	121.1	102.4	99.3
57.5°	7540.3	3607.2	276.3	245.2	217.3	189.4	155.2	124.2	90.0	71.4	71.4
60°	7170.9	2952.2	245.2	214.2	186.3	161.4	127.3	90.0	62.1	46.6	43.5
62.5°	6655.6	2269.2	214.2	183.2	161.4	133.5	99.3	65.2	37.3	24.8	24.8
65°	5715.0	1589.4	180.0	152.1	133.5	108.7	74.5	40.4	21.7	9.3	9.3
67.5°	4342.9	984.1	149.0	127.3	114.9	86.9	52.8	24.8	9.3	3.1	0.0
70°	2492.7	512.2	118.0	102.4	90.0	65.2	37.3	12.4	6.2	0.0	0.0
71°	1741.5	378.7	105.5	90.0	80.7	59.0	31.0	9.3	3.1	0.0	0.0
72.5°	872.3	251.4	90.0	74.5	65.2	46.6	24.8	9.3	3.1	0.0	0.0
75°	310.4	161.4	62.1	49.7	46.6	34.1	15.5	6.2	3.1	0.0	0.0
77.5°	214.2	130.4	43.5	31.0	31.0	21.7	9.3	3.1	3.1	0.0	0.0
80°	195.6	71.4	27.9	18.6	15.5	12.4	6.2	3.1	0.0	0.0	0.0
82.5°	195.6	52.8	15.5	12.4	9.3	6.2	3.1	0.0	0.0	0.0	0.0
85°	136.6	27.9	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	21.7	9.3	6.2	3.1	3.1	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)