

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: P483969

Luminaire Tested: **IFLD-S-SA3C-735-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483969  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

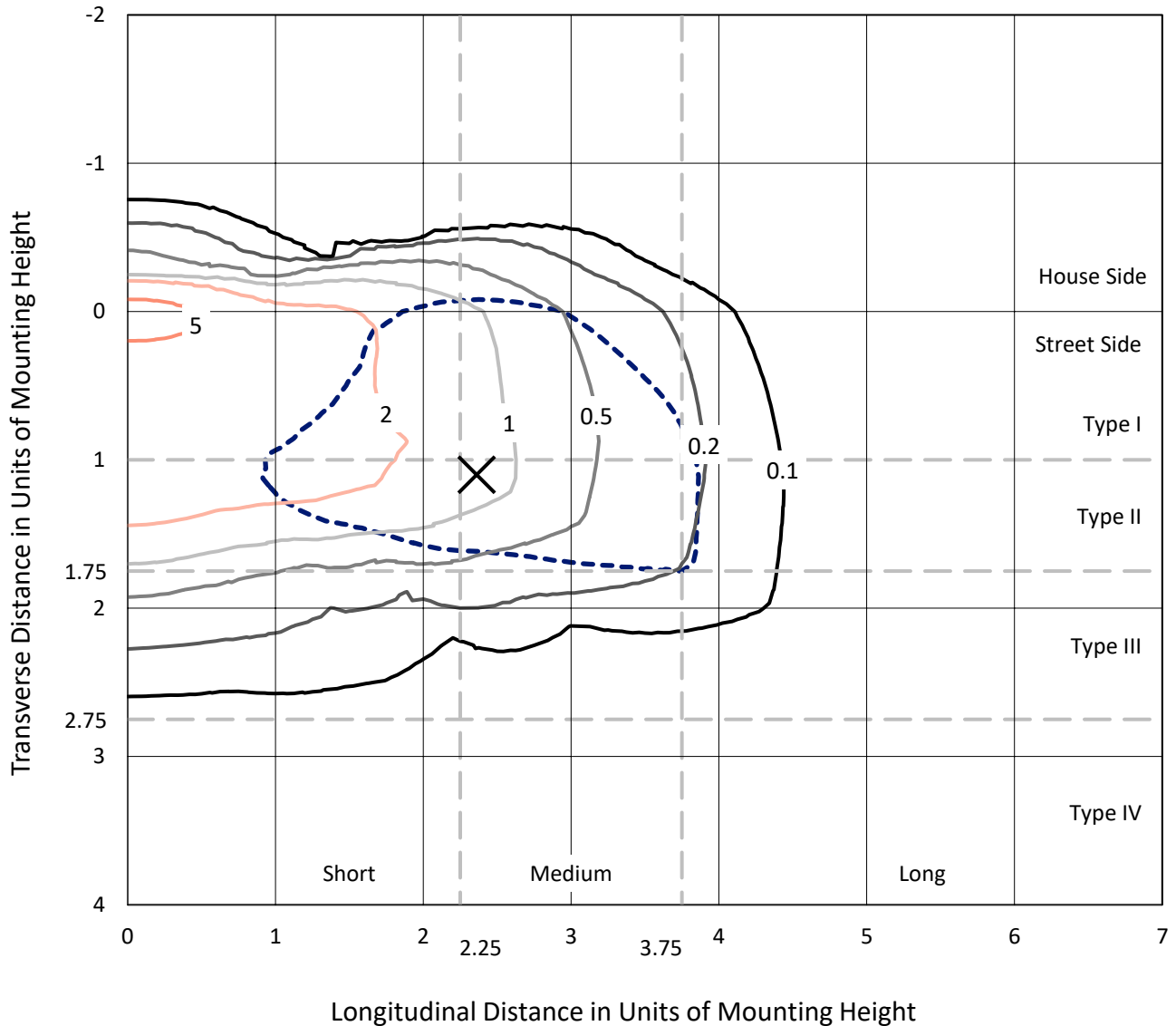
Lumens per Lamp: N/A  
Luminaire Lumens: 17195 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3

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

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### Iso-Footcandle Lines of Horizontal Illumination

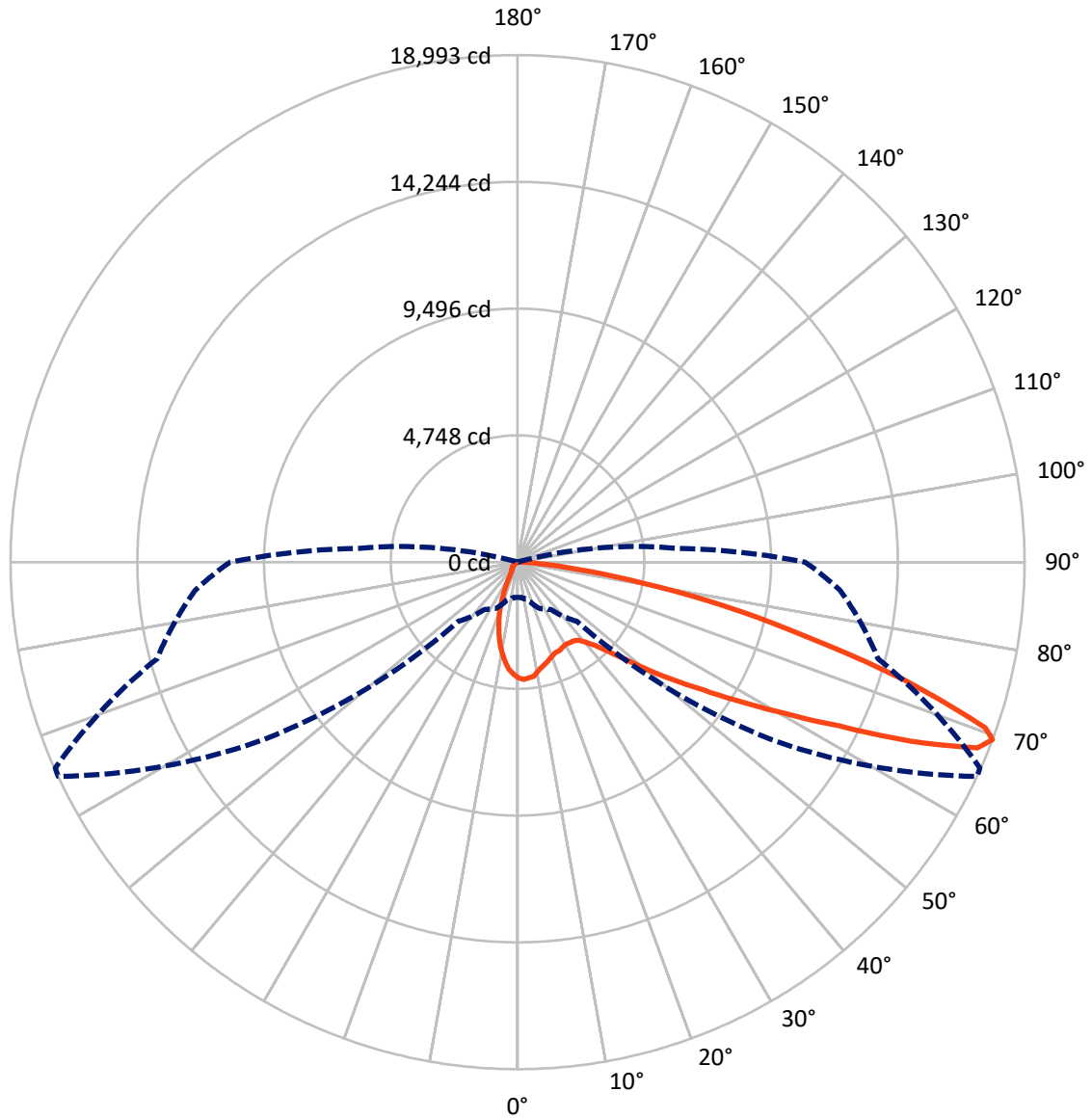
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Medium - N/A

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### 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
<b>House Side</b>	Lumens	2085.9	0.0	2085.9
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	15109.2	0.0	15109.2
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	17195.0	0.0	17195.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.8	2.1
10°-20°	776.2	4.5
20°-30°	1080.7	6.3
30°-40°	1531.4	8.9
40°-50°	2413.5	14.0
50°-60°	3916.2	22.8
60°-70°	4373.6	25.4
70°-80°	2462.8	14.3
80°-90°	285.8	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°	17195.0	100.0
0°-180°	17195.0	100.0



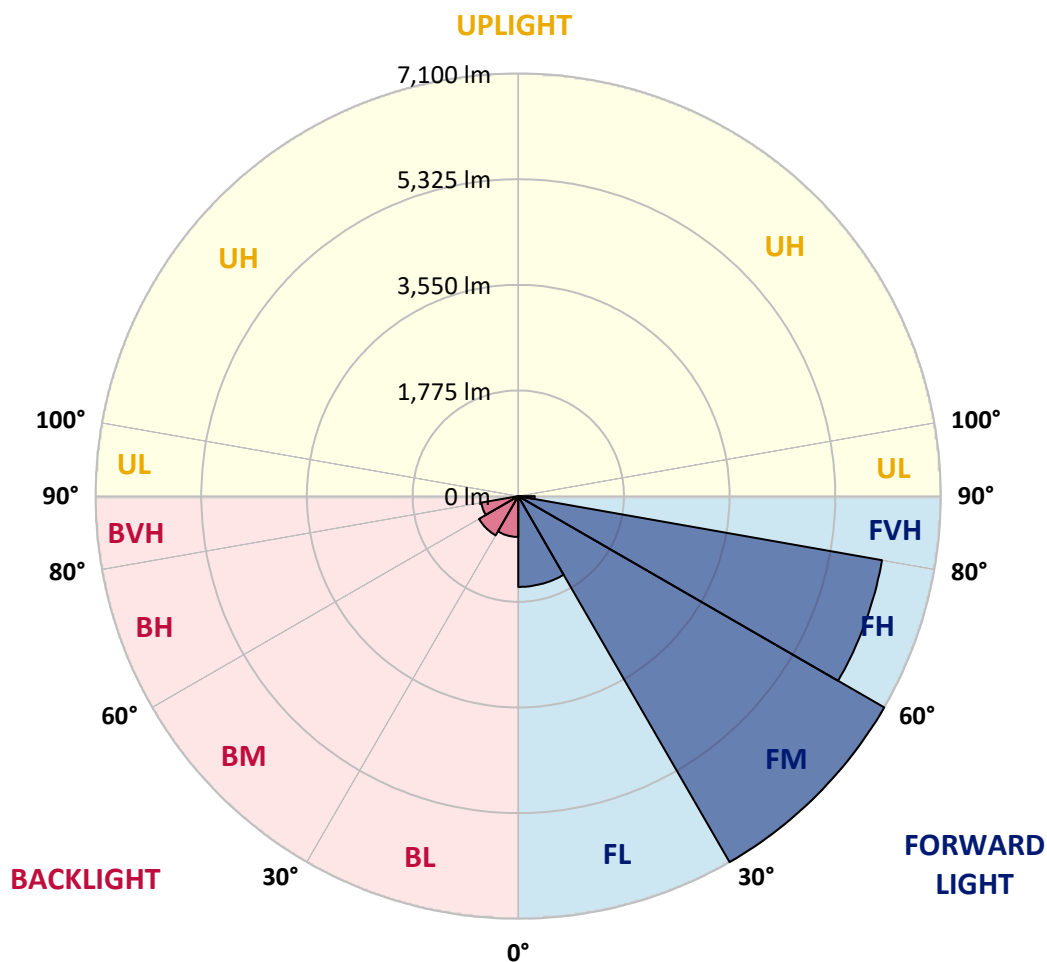
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.9	8.9			
FM (30°-60°)	7100.0	41.3			
FH (60°-80°)	6205.4	36.1			G3/7500
FVH (80°-90°)	277.9	1.6			G3/500
BL (0°-30°)	685.8	4.0	B2/1000		
BM (30°-60°)	761.1	4.4	B1/1000		
BH (60°-80°)	631.1	3.7	B2/1000		G2/1000
BVH (80°-90°)	7.9	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-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	4175.2	4207.7	4217.0	4249.4	4265.7	4335.3	4374.7	4397.9	4386.3	4411.8	4414.1
5°	3878.3	3859.8	3908.5	3943.3	4017.5	4138.1	4261.0	4356.1	4400.2	4442.0	4435.0
7.5°	3560.5	3551.3	3600.0	3678.8	3746.1	3892.2	4089.4	4323.7	4314.4	4416.5	4446.6
10°	3342.5	3351.8	3368.0	3446.9	3546.6	3695.1	3940.9	4159.0	4207.7	4423.4	4483.7
12.5°	3143.0	3159.2	3189.4	3270.6	3386.6	3539.7	3778.6	4033.7	4108.0	4384.0	4504.6
15°	3078.1	3041.0	3101.3	3161.6	3282.2	3419.0	3620.8	3938.6	3971.1	4337.6	4539.4
17.5°	3024.7	3001.5	3029.4	3078.1	3205.6	3317.0	3507.2	3836.6	3896.9	4319.0	4534.8
20°	3041.0	3020.1	3031.7	3068.8	3126.8	3231.2	3407.4	3739.1	3804.1	4233.2	4527.8
22.5°	3087.3	3103.6	3082.7	3092.0	3110.5	3163.9	3354.1	3669.6	3725.2	4217.0	4567.2
25°	3296.1	3268.3	3240.4	3228.8	3119.8	3143.0	3337.9	3664.9	3704.3	4159.0	4534.8
27.5°	3514.1	3490.9	3479.3	3412.1	3263.6	3194.0	3340.2	3600.0	3653.3	4135.8	4495.3
30°	3778.6	3808.7	3762.3	3681.2	3474.7	3303.1	3365.7	3567.5	3641.7	4047.6	4469.8
32.5°	4056.9	4073.2	4096.4	4036.0	3769.3	3467.8	3442.2	3597.6	3602.3	4047.6	4411.8
35°	4372.4	4349.2	4409.5	4414.1	4179.9	3760.0	3588.4	3618.5	3667.2	4029.1	4390.9
37.5°	4643.8	4683.2	4752.8	4864.1	4622.9	4172.9	3815.7	3715.9	3736.8	4114.9	4407.2
40°	4940.7	4980.1	5137.8	5249.2	5112.3	4636.8	4161.3	3943.3	3959.5	4242.5	4490.7
42.5°	5267.7	5344.3	5532.2	5727.0	5689.9	5226.0	4606.7	4277.3	4270.3	4560.3	4662.3
45°	5710.8	5812.8	6017.0	6242.0	6274.4	5901.0	5200.5	4776.0	4799.2	4975.5	5017.2
47.5°	6327.8	6323.1	6522.6	6773.1	6961.0	6601.5	5910.3	5446.3	5444.0	5631.9	5543.8
50°	6923.9	6926.2	6979.6	7269.5	7756.6	7573.4	6789.4	6337.1	6311.5	6404.3	6262.8
52.5°	7199.9	7167.5	7128.0	7478.3	8369.0	8798.1	7902.8	7346.1	7325.2	7269.5	7232.4
55°	6910.0	6921.6	6919.3	7283.4	8691.4	10090.1	9331.6	8457.1	8422.3	8248.4	8299.4
57.5°	5979.8	5942.7	6023.9	6592.2	8322.6	10971.5	11375.1	9858.2	9767.7	9190.1	9074.1
60°	4451.2	4462.8	4530.1	5200.5	7406.4	11157.1	13330.5	11502.7	11113.0	9853.5	9693.5
62.5°	3108.2	3085.0	3110.5	3486.3	5295.6	10414.8	14652.7	13502.2	13126.4	10607.4	10514.6
65°	2224.5	2194.3	2296.4	2526.0	3180.1	7963.1	14840.6	16165.1	15828.7	11811.2	11588.5
67.5°	1600.5	1595.9	1714.2	2131.7	2259.3	4585.8	13448.8	18577.4	18373.3	13240.1	12242.7
69°	1324.5	1326.8	1440.5	1909.0	2157.2	3131.4	11572.3	18992.6	18955.5	13977.7	12119.7
70°	1155.1	1164.4	1296.6	1776.8	2115.4	2574.7	9976.5	18584.4	18547.2	14121.5	11713.8
72.5°	712.1	719.1	893.0	1424.2	2011.1	2101.5	5965.9	15204.8	15332.3	13462.8	10092.4
75°	341.0	343.3	468.6	1029.9	1939.2	1992.5	3196.4	11219.7	11488.8	10869.5	7886.5
77.5°	180.9	180.9	225.0	547.4	1570.3	1874.2	1897.4	7914.4	8137.0	6872.9	4483.7
80°	90.5	92.8	136.9	285.3	974.2	1837.1	1482.2	4720.3	4840.9	2804.4	1396.4
82.5°	34.8	37.1	64.9	171.6	505.7	1551.8	1301.3	2321.9	2291.7	656.4	341.0
85°	4.6	4.6	23.2	102.1	215.7	684.3	1074.0	969.6	937.1	143.8	164.7
87.5°	0.0	0.0	4.6	30.2	64.9	199.5	415.2	266.8	296.9	39.4	81.2
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°	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3	4335.3
2.5°	4402.5	4353.8	4279.6	4207.7	4131.1	4038.4	3936.3	3899.2	3834.2	3829.6	3866.7
5°	4397.9	4319.0	4189.1	4036.0	3818.0	3653.3	3474.7	3344.8	3245.1	3180.1	3196.4
7.5°	4421.1	4326.0	4101.0	3771.6	3490.9	3163.9	2887.9	2697.7	2523.7	2437.9	2428.6
10°	4384.0	4256.4	3927.0	3465.4	3052.5	2595.6	2192.0	1936.8	1677.0	1581.9	1586.6
12.5°	4404.9	4226.2	3739.1	3150.0	2581.7	1987.9	1505.4	1157.5	913.9	835.0	825.8
15°	4418.8	4161.3	3558.2	2771.9	2059.8	1354.6	872.2	656.4	579.9	566.0	563.7
17.5°	4365.4	4082.4	3303.1	2398.4	1526.3	823.4	579.9	535.8	521.9	512.6	508.0
20°	4363.1	4036.0	3082.7	2015.7	1018.3	561.3	501.0	484.8	463.9	457.0	457.0
22.5°	4323.7	3938.6	2818.3	1595.9	649.5	482.5	450.0	424.5	401.3	392.0	389.7
25°	4312.1	3825.0	2570.1	1199.2	494.1	431.4	399.0	361.9	334.0	320.1	313.1
27.5°	4279.6	3727.5	2319.6	844.3	431.4	385.0	343.3	303.9	271.4	250.5	248.2
30°	4163.6	3625.5	2041.2	584.5	392.0	341.0	294.6	248.2	215.7	201.8	197.2
32.5°	4114.9	3530.4	1737.4	450.0	357.2	301.5	248.2	206.4	180.9	167.0	164.7
35°	4056.9	3391.2	1442.8	392.0	324.7	262.1	208.8	174.0	153.1	141.5	141.5
37.5°	4063.9	3279.9	1166.7	354.9	289.9	225.0	178.6	148.5	129.9	118.3	118.3
40°	4043.0	3191.7	907.0	322.4	257.5	192.5	150.8	125.3	109.0	97.4	95.1
42.5°	4138.1	3168.5	684.3	294.6	225.0	164.7	129.9	106.7	90.5	76.5	76.5
45°	4298.2	3205.6	533.5	269.1	192.5	141.5	111.3	88.1	71.9	62.6	60.3
47.5°	4725.0	3351.8	417.5	248.2	164.7	122.9	92.8	71.9	58.0	48.7	46.4
50°	5344.3	3678.8	354.9	218.0	139.2	104.4	76.5	55.7	46.4	37.1	34.8
52.5°	6225.7	4228.6	322.4	192.5	116.0	85.8	60.3	44.1	34.8	27.8	25.5
55°	7186.0	4915.2	292.3	162.4	97.4	69.6	48.7	34.8	25.5	18.6	16.2
57.5°	7935.2	5509.0	266.8	134.5	78.9	55.7	37.1	25.5	18.6	11.6	9.3
60°	8754.0	5926.5	234.3	106.7	64.9	41.8	27.8	18.6	13.9	7.0	7.0
62.5°	9598.4	6415.9	192.5	83.5	51.0	32.5	20.9	13.9	9.3	2.3	2.3
65°	10772.1	6798.6	148.5	64.9	39.4	23.2	16.2	11.6	4.6	0.0	0.0
67.5°	11103.8	6610.8	109.0	51.0	27.8	16.2	11.6	7.0	2.3	0.0	0.0
69°	10772.1	5954.3	95.1	44.1	23.2	13.9	9.3	4.6	2.3	0.0	0.0
70°	10166.7	5444.0	83.5	37.1	20.9	13.9	7.0	4.6	2.3	0.0	0.0
72.5°	8503.5	4175.2	64.9	27.8	16.2	11.6	7.0	4.6	0.0	0.0	0.0
75°	6237.3	2579.4	48.7	20.9	13.9	9.3	7.0	4.6	0.0	0.0	0.0
77.5°	3342.5	941.7	34.8	13.9	9.3	7.0	7.0	4.6	0.0	0.0	0.0
80°	916.2	278.3	25.5	9.3	7.0	4.6	4.6	2.3	0.0	0.0	0.0
82.5°	250.5	71.9	16.2	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0
85°	134.5	27.8	9.3	7.0	4.6	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	69.6	9.3	7.0	4.6	4.6	2.3	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)