

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: P484777

Luminaire Tested: **IFLD-L-SA8A-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484777
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

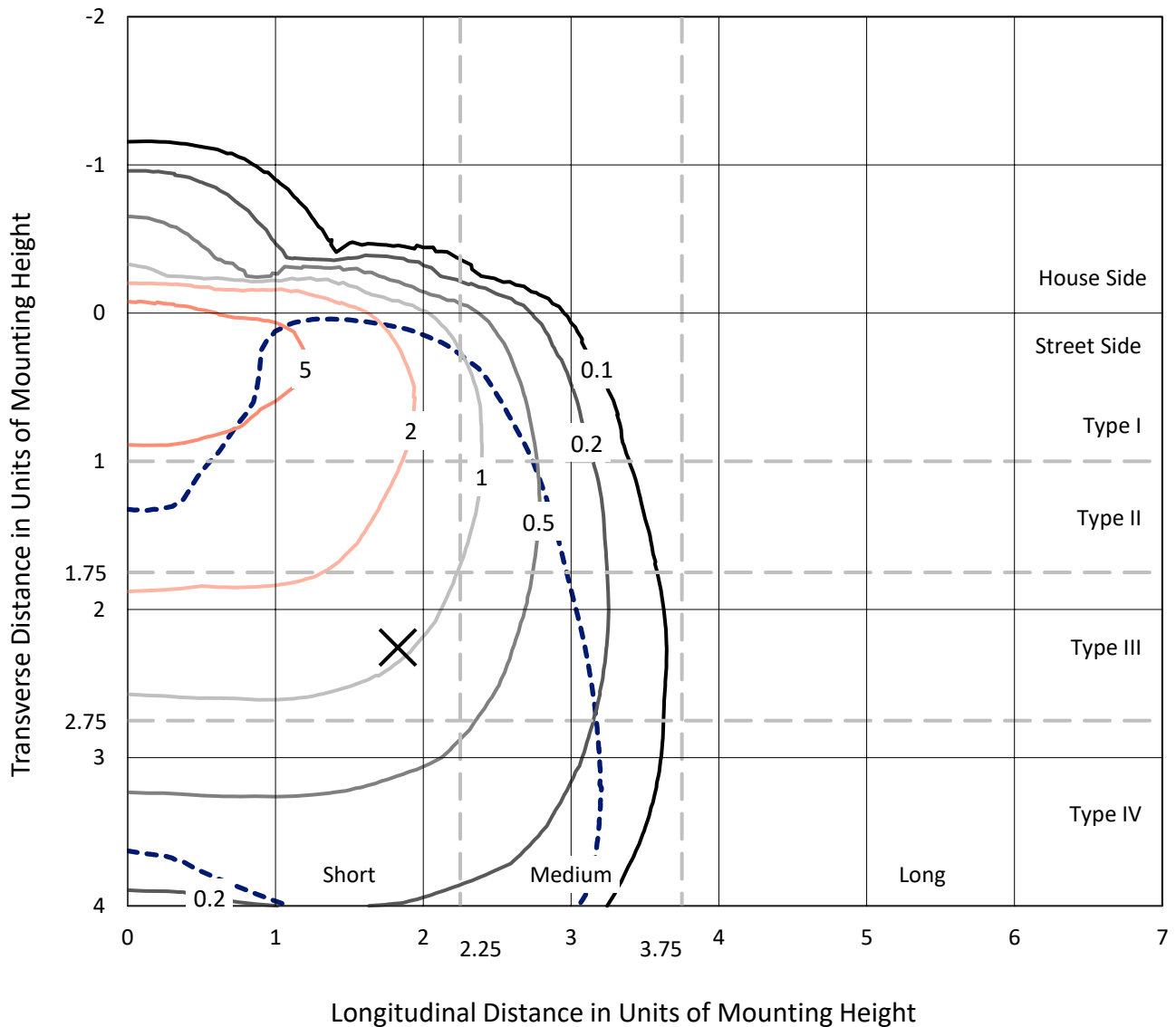
Lumens per Lamp: N/A
Luminaire Lumens: 27912 lumens
Efficiency: N/A
Efficacy: 112.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 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

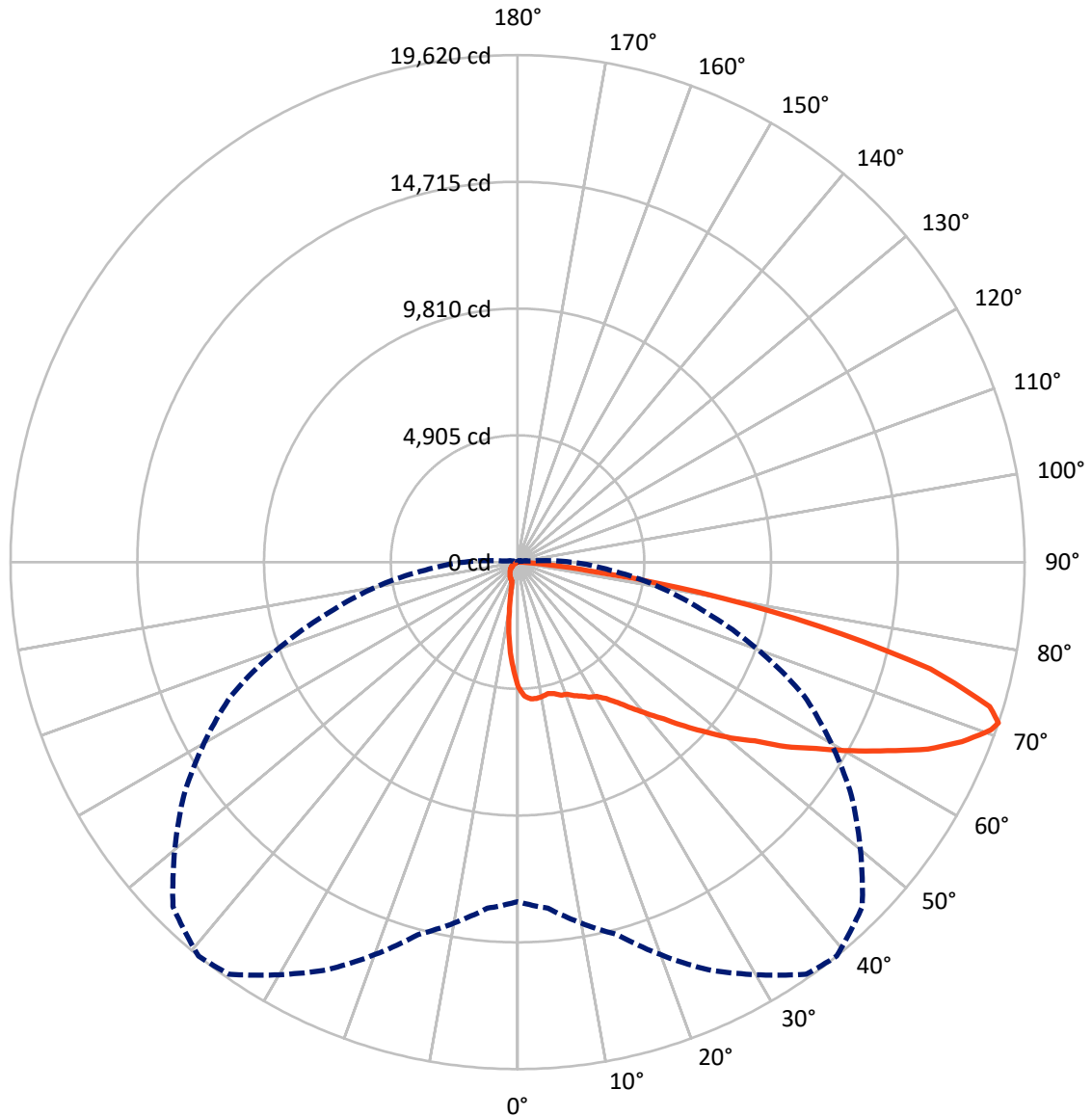
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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
House Side	Lumens	2101.3	0.0	2101.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	25810.6	0.0	25810.6
	% Fixture	92.5	0.0	92.5
Total	Lumens	27912.0	0.0	27912.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.2	1.5
10°-20°	999.8	3.6
20°-30°	1604.9	5.8
30°-40°	2456.8	8.8
40°-50°	3943.6	14.1
50°-60°	5792.5	20.8
60°-70°	7295.4	26.1
70°-80°	4868.8	17.4
80°-90°	544.1	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°	27912.0	100.0
0°-180°	27912.0	100.0

Coefficient of Utilization



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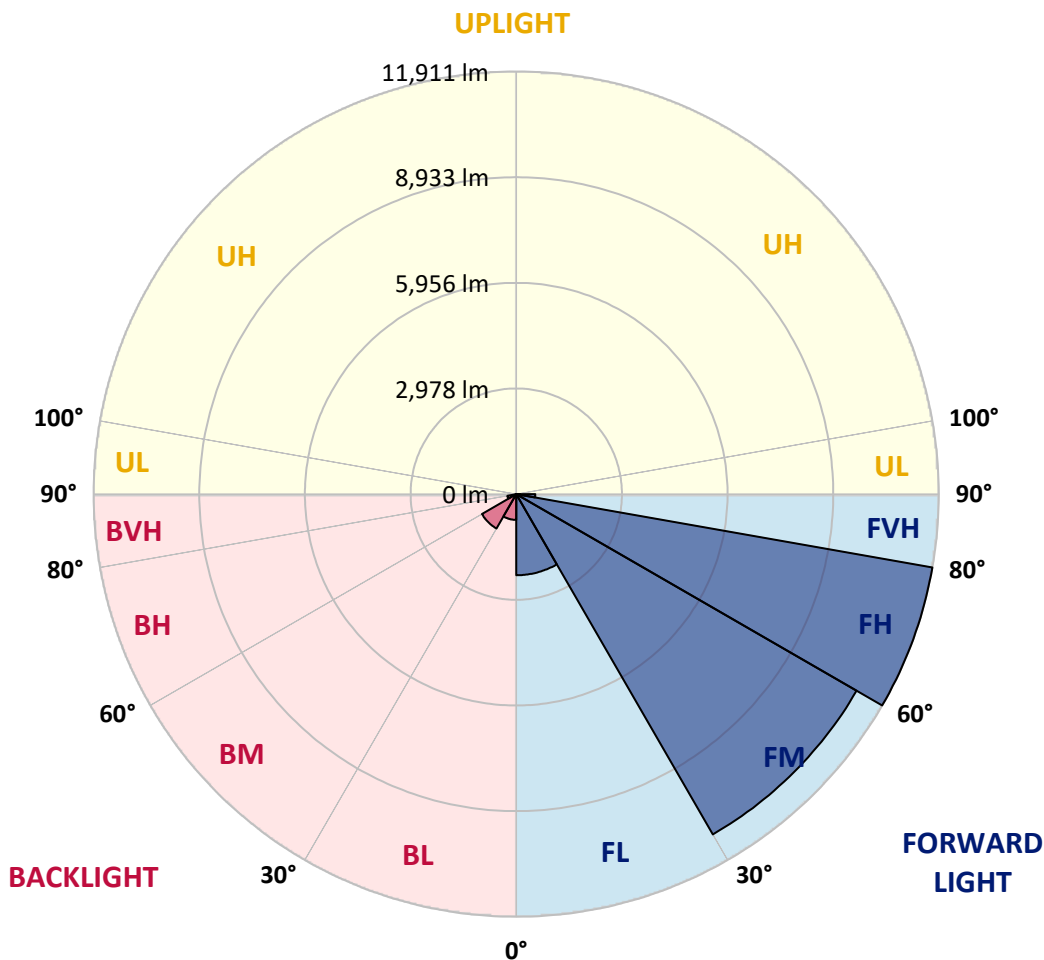
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2285.4	8.2			
FM (30°-60°)	11075.9	39.7			
FH (60°-80°)	11911.2	42.7			G4/12000
FVH (80°-90°)	538.1	1.9			G4/750
BL (0°-30°)	725.5	2.6	B2/1000		
BM (30°-60°)	1116.9	4.0	B2/2500		
BH (60°-80°)	252.9	0.9	B1/500		G1/500
BVH (80°-90°)	6.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3
2.5°	5235.3	5286.6	5235.3	5213.4	5191.4	5195.1	5136.5	5147.5	5077.9	4986.4	4913.2
5°	5400.1	5469.7	5414.7	5389.1	5385.5	5315.9	5286.6	5217.0	5132.8	4990.1	4902.2
7.5°	5385.5	5370.8	5396.4	5374.5	5326.9	5326.9	5293.9	5195.1	5110.9	4949.8	4799.7
10°	5275.6	5319.6	5297.6	5272.0	5282.9	5286.6	5224.4	5154.8	5129.2	4968.1	4722.8
12.5°	5264.6	5191.4	5272.0	5275.6	5228.0	5224.4	5217.0	5198.7	5118.2	4971.8	4741.1
15°	5228.0	5198.7	5279.3	5282.9	5293.9	5282.9	5293.9	5279.3	5198.7	5114.5	4821.6
17.5°	5257.3	5224.4	5337.9	5392.8	5367.1	5418.4	5400.1	5334.2	5264.6	5165.8	4898.5
20°	5264.6	5312.2	5436.7	5458.7	5539.2	5455.0	5451.4	5381.8	5337.9	5231.7	4946.1
22.5°	5400.1	5422.1	5575.8	5623.4	5627.1	5616.1	5524.6	5444.0	5425.7	5293.9	4957.1
25°	5605.1	5682.0	5751.6	5780.8	5791.8	5740.6	5645.4	5542.9	5498.9	5414.7	5070.6
27.5°	5967.6	5920.0	5982.2	6026.1	5901.7	5920.0	5799.2	5711.3	5649.1	5575.8	5202.4
30°	6289.7	6245.8	6249.5	6242.1	6136.0	6037.1	6004.2	5850.4	5773.5	5802.8	5407.4
32.5°	6579.0	6483.8	6564.3	6527.7	6330.0	6300.7	6275.1	6081.1	6095.7	6231.2	5715.0
35°	6846.2	6813.3	6879.2	6813.3	6681.5	6674.2	6648.5	6480.1	6560.7	6754.7	6242.1
37.5°	7091.5	7102.5	7183.0	7150.1	7161.1	7168.4	7153.8	6974.4	7205.0	7640.7	6857.2
40°	7318.5	7303.9	7501.6	7604.1	7626.0	7706.6	7706.6	7662.6	8017.8	8508.4	7710.2
42.5°	7560.1	7596.7	7853.0	8025.1	8233.8	8303.3	8398.5	8420.5	8969.7	9529.8	8581.6
45°	7955.5	7893.3	8219.1	8625.5	8808.6	9053.9	9200.3	9324.8	9987.4	10756.3	9452.9
47.5°	8457.1	8332.6	8618.2	9207.6	9632.3	9833.7	10097.3	10262.0	10910.0	11704.5	10276.7
50°	9013.6	8885.4	9024.6	9837.3	10331.6	10697.7	11034.5	11243.2	12026.7	12766.2	10877.1
52.5°	9643.3	9526.1	9548.1	10492.7	11221.2	11488.5	11931.5	12242.7	13022.5	13406.9	11089.4
55°	10313.3	10284.0	10214.4	11133.4	12001.0	12601.4	12868.7	13242.1	14043.9	13754.7	11320.1
57.5°	10986.9	10895.4	10994.2	11982.7	13253.1	13611.9	13981.7	14205.0	14611.4	14058.6	11232.2
60°	11620.3	11627.6	11766.7	12905.3	14318.5	14827.4	15160.5	15025.1	15193.5	14190.4	11030.8
62.5°	12154.8	12140.2	12491.6	13941.4	15728.0	16072.2	16321.1	15717.0	15464.4	14318.5	10679.4
65°	12634.4	12799.1	13352.0	15175.2	17053.3	17448.7	17298.6	16372.4	15728.0	13941.4	9690.9
67.5°	12996.8	13242.1	14201.3	16335.8	18268.8	18547.0	18338.4	16870.3	15416.8	12462.3	7893.3
70°	13209.2	13458.1	14809.1	17302.3	19239.0	19440.3	18949.8	16485.9	13600.9	9024.6	4924.2
71°	13143.3	13447.2	14926.2	17404.8	19469.6	19619.7	18858.2	15775.6	12231.7	7556.5	3591.5
72.5°	12546.5	12832.1	14439.3	17331.6	19191.4	19099.9	18144.3	14069.5	9628.6	4818.0	1856.2
75°	9218.6	9526.1	12392.8	14992.1	17130.2	16500.5	14684.6	9873.9	5023.0	1475.4	541.8
77.5°	4591.0	4642.3	7691.9	10884.4	12564.8	11938.8	9841.0	5506.3	1878.1	435.7	270.9
80°	2116.1	2130.8	2884.9	5638.1	7596.7	7150.1	5513.6	2716.5	849.4	230.6	212.3
82.5°	1442.5	1464.4	1739.0	2335.8	3298.6	2782.4	2233.3	1739.0	486.9	139.1	208.7
85°	263.6	241.6	973.8	1237.4	1274.1	864.0	772.5	1504.7	183.1	80.5	183.1
87.5°	0.0	3.7	135.5	505.2	454.0	201.4	263.6	366.1	18.3	25.6	32.9
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°	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3	4858.3
2.5°	4850.9	4810.7	4675.2	4525.1	4389.6	4283.5	4148.0	4085.8	3986.9	3932.0	3928.3
5°	4781.4	4671.5	4437.2	4184.6	3902.7	3668.4	3408.5	3262.0	3093.6	3042.4	3031.4
7.5°	4664.2	4506.8	4162.7	3807.5	3375.5	2961.8	2643.3	2302.8	2094.1	2006.3	1973.3
10°	4591.0	4400.6	3932.0	3401.1	2797.1	2215.0	1768.3	1405.9	1215.5	1124.0	1102.0
12.5°	4591.0	4386.0	3745.3	3013.1	2211.3	1515.7	1094.7	886.0	823.7	801.8	801.8
15°	4580.0	4356.7	3565.9	2614.0	1636.5	1017.8	816.4	772.5	765.2	761.5	757.8
17.5°	4634.9	4305.4	3382.8	2185.7	1156.9	801.8	750.5	743.2	735.9	735.9	728.6
20°	4675.2	4276.1	3163.2	1731.7	864.0	743.2	721.2	710.3	706.6	702.9	710.3
22.5°	4642.3	4232.2	2892.3	1296.0	754.2	706.6	691.9	681.0	673.6	673.6	677.3
25°	4704.5	4191.9	2621.3	977.5	706.6	673.6	659.0	651.7	648.0	644.4	637.0
27.5°	4788.7	4210.2	2299.2	787.1	666.3	640.7	626.0	618.7	615.1	607.7	615.1
30°	4891.2	4206.6	1944.0	688.3	629.7	604.1	589.4	585.8	578.5	574.8	578.5
32.5°	5066.9	4301.8	1577.9	637.0	589.4	567.5	552.8	549.2	545.5	541.8	538.2
35°	5444.0	4418.9	1233.8	596.8	552.8	527.2	516.2	508.9	505.2	501.6	497.9
37.5°	5909.0	4678.9	940.9	560.1	516.2	490.6	479.6	475.9	461.3	457.6	454.0
40°	6491.1	4957.1	724.9	519.9	483.3	457.6	446.7	435.7	417.4	410.0	402.7
42.5°	7216.0	5228.0	596.8	483.3	446.7	428.3	410.0	391.7	377.1	362.4	355.1
45°	7940.9	5542.9	523.5	450.3	417.4	395.4	380.8	355.1	329.5	307.5	303.9
47.5°	8545.0	5656.4	479.6	413.7	388.1	369.8	347.8	314.9	278.2	256.3	252.6
50°	8995.3	5590.5	435.7	377.1	355.1	336.8	307.5	267.3	230.6	208.7	201.4
52.5°	9083.1	5301.2	395.4	347.8	322.2	300.2	267.3	223.3	183.1	161.1	157.4
55°	9020.9	4821.6	362.4	322.2	292.9	259.9	223.3	179.4	142.8	120.8	117.2
57.5°	8892.8	4254.2	325.8	289.2	256.3	223.3	183.1	146.4	106.2	84.2	84.2
60°	8457.1	3481.7	289.2	252.6	219.7	190.4	150.1	106.2	73.2	54.9	51.3
62.5°	7849.4	2676.3	252.6	216.0	190.4	157.4	117.2	76.9	43.9	29.3	29.3
65°	6740.1	1874.5	212.3	179.4	157.4	128.1	87.9	47.6	25.6	11.0	11.0
67.5°	5121.9	1160.6	175.7	150.1	135.5	102.5	62.2	29.3	11.0	3.7	0.0
70°	2939.8	604.1	139.1	120.8	106.2	76.9	43.9	14.6	7.3	0.0	0.0
71°	2053.9	446.7	124.5	106.2	95.2	69.6	36.6	11.0	3.7	0.0	0.0
72.5°	1028.8	296.5	106.2	87.9	76.9	54.9	29.3	11.0	3.7	0.0	0.0
75°	366.1	190.4	73.2	58.6	54.9	40.3	18.3	7.3	3.7	0.0	0.0
77.5°	252.6	153.8	51.3	36.6	36.6	25.6	11.0	3.7	3.7	0.0	0.0
80°	230.6	84.2	32.9	22.0	18.3	14.6	7.3	3.7	0.0	0.0	0.0
82.5°	230.6	62.2	18.3	14.6	11.0	7.3	3.7	0.0	0.0	0.0	0.0
85°	161.1	32.9	11.0	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	25.6	11.0	7.3	3.7	3.7	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)