

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: P484658

Luminaire Tested: **IFLD-L-SA7D-722-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484658
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-722-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

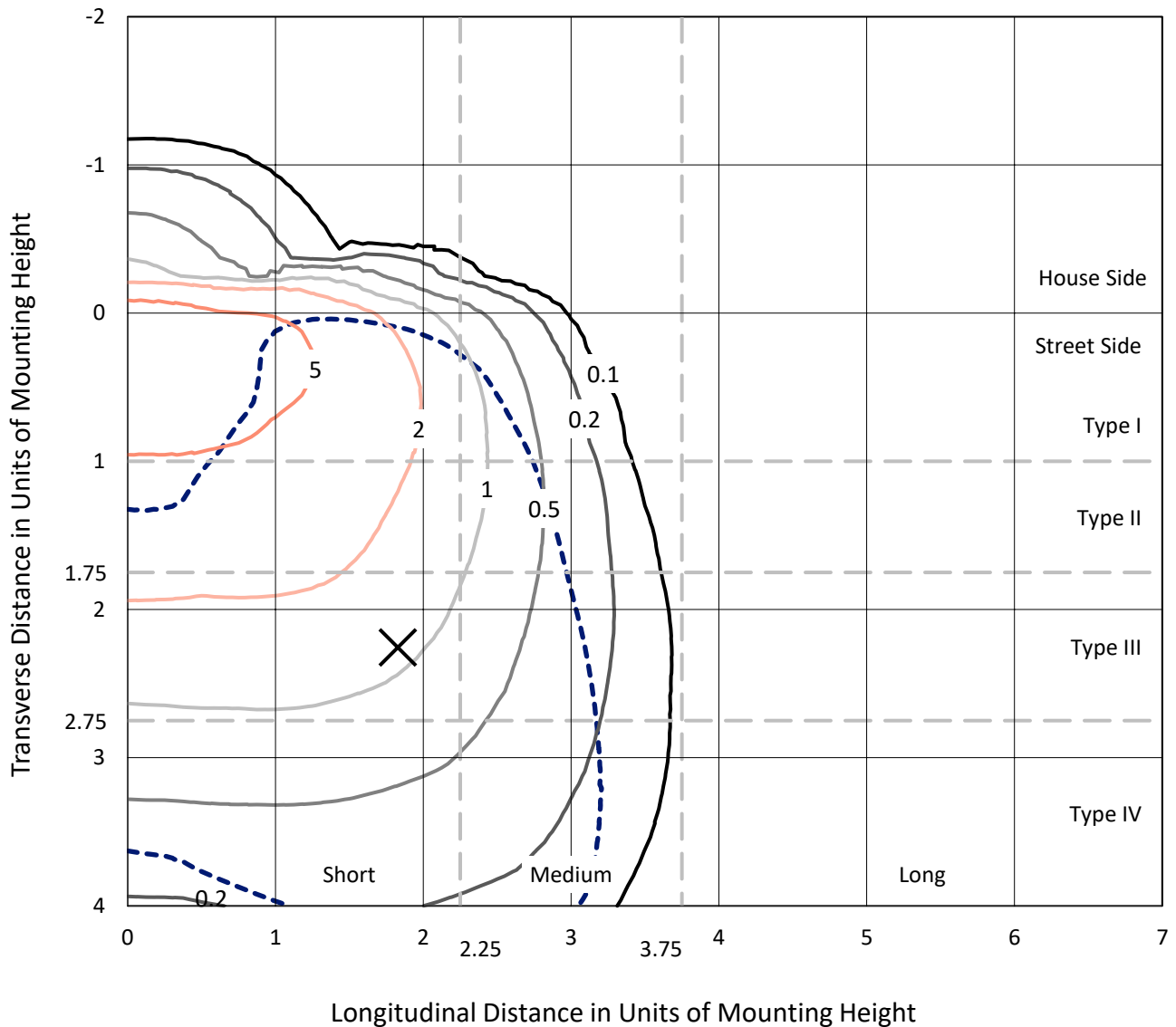
Lumens per Lamp: N/A
Luminaire Lumens: 29683 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 422.6
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

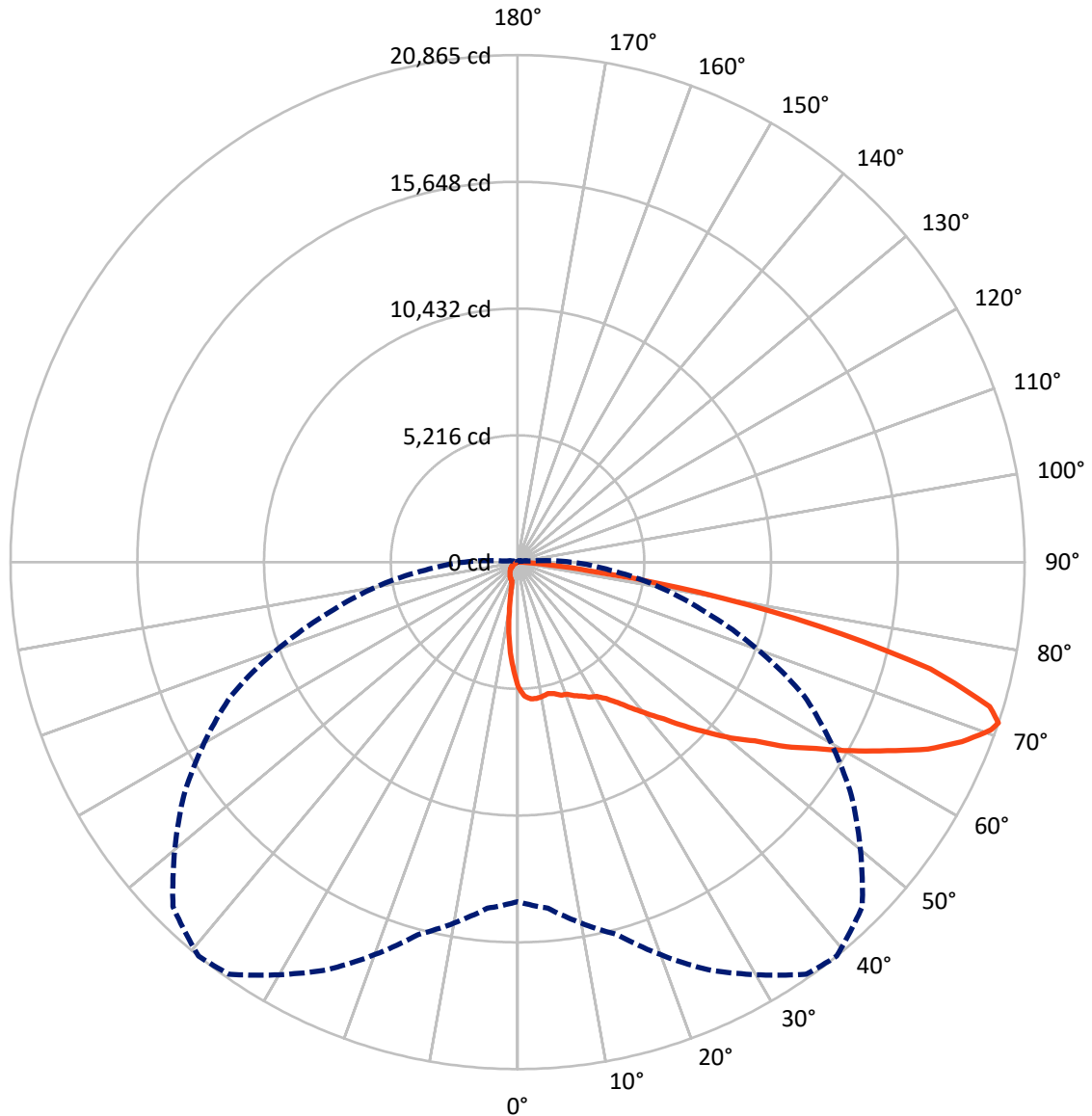
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	2234.7	0.0	2234.7
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	27448.3	0.0	27448.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	29683.0	0.0	29683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.0	1.5
10°-20°	1063.2	3.6
20°-30°	1706.8	5.8
30°-40°	2612.7	8.8
40°-50°	4193.8	14.1
50°-60°	6160.0	20.8
60°-70°	7758.3	26.1
70°-80°	5177.7	17.4
80°-90°	578.6	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°	29683.0	100.0
0°-180°	29683.0	100.0

Coefficient of Utilization



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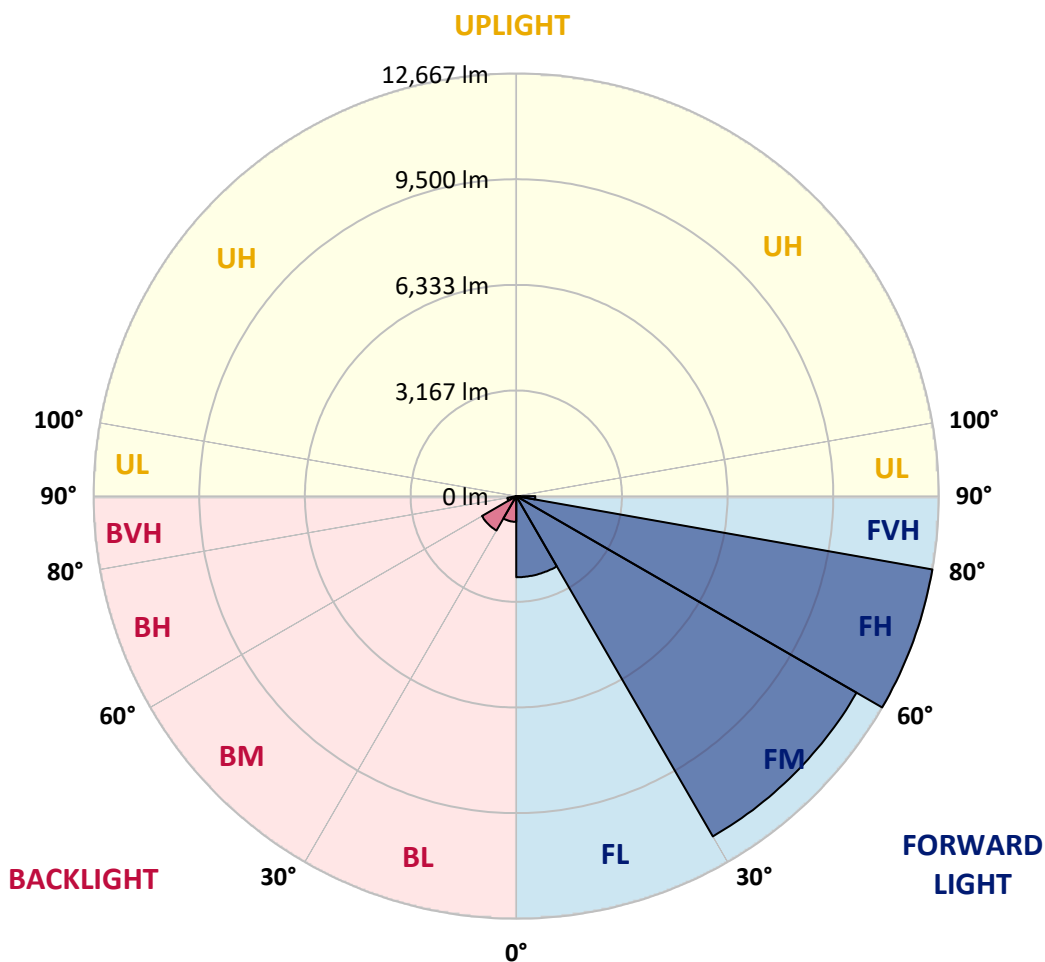
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2430.4	8.2			
FM (30°-60°)	11778.6	39.7			
FH (60°-80°)	12667.0	42.7			G5
FVH (80°-90°)	572.3	1.9			G4/750
BL (0°-30°)	771.5	2.6	B2/1000		
BM (30°-60°)	1187.8	4.0	B2/2500		
BH (60°-80°)	269.0	0.9	B1/500		G1/500
BVH (80°-90°)	6.4	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5
2.5°	5567.5	5622.0	5567.5	5544.2	5520.8	5524.7	5462.4	5474.1	5400.1	5302.8	5224.9
5°	5742.7	5816.7	5758.3	5731.0	5727.2	5653.2	5622.0	5548.1	5458.5	5306.7	5213.2
7.5°	5727.2	5711.6	5738.8	5715.5	5664.9	5664.9	5629.8	5524.7	5435.1	5263.8	5104.2
10°	5610.4	5657.1	5633.7	5606.5	5618.1	5622.0	5555.8	5481.9	5454.6	5283.3	5022.5
12.5°	5598.7	5520.8	5606.5	5610.4	5559.7	5555.8	5548.1	5528.6	5442.9	5287.2	5041.9
15°	5559.7	5528.6	5614.2	5618.1	5629.8	5618.1	5629.8	5614.2	5528.6	5439.0	5127.6
17.5°	5590.9	5555.8	5676.5	5734.9	5707.7	5762.2	5742.7	5672.6	5598.7	5493.6	5209.3
20°	5598.7	5649.3	5781.7	5805.0	5890.7	5801.1	5797.2	5723.3	5676.5	5563.6	5259.9
22.5°	5742.7	5766.1	5929.6	5980.2	5984.1	5972.4	5875.1	5789.4	5770.0	5629.8	5271.6
25°	5960.8	6042.5	6116.5	6147.6	6159.3	6104.8	6003.6	5894.6	5847.8	5758.3	5392.3
27.5°	6346.2	6295.6	6361.8	6408.5	6276.1	6295.6	6167.1	6073.7	6007.5	5929.6	5532.5
30°	6688.8	6642.1	6646.0	6638.2	6525.3	6420.2	6385.1	6221.6	6139.9	6171.0	5750.5
32.5°	6996.4	6895.2	6980.8	6941.9	6731.6	6700.5	6673.2	6466.9	6482.5	6626.5	6077.6
35°	7280.6	7245.6	7315.6	7245.6	7105.4	7097.6	7070.4	6891.3	6976.9	7183.3	6638.2
37.5°	7541.5	7553.1	7638.8	7603.8	7615.4	7623.2	7607.7	7416.9	7662.2	8125.5	7292.3
40°	7782.9	7767.3	7977.5	8086.5	8109.9	8195.6	8195.6	8148.8	8526.5	9048.2	8199.4
42.5°	8039.8	8078.8	8351.3	8534.3	8756.2	8830.2	8931.4	8954.8	9538.8	10134.5	9126.1
45°	8460.3	8394.1	8740.6	9172.8	9367.5	9628.3	9784.0	9916.4	10621.1	11438.7	10052.7
47.5°	8993.7	8861.3	9165.0	9791.8	10243.5	10457.6	10737.9	10913.1	11602.3	12447.1	10928.7
50°	9585.5	9449.2	9597.2	10461.5	10987.1	11376.4	11734.6	11956.6	12789.7	13576.2	11567.2
52.5°	10255.1	10130.6	10153.9	11158.4	11933.2	12217.4	12688.5	13019.4	13848.7	14257.5	11793.0
55°	10967.6	10936.5	10862.5	11839.7	12762.5	13401.0	13685.2	14082.3	14935.0	14627.4	12038.3
57.5°	11684.0	11586.7	11691.8	12743.0	14094.0	14475.6	14868.8	15106.3	15538.5	14950.6	11944.9
60°	12357.6	12365.4	12513.3	13724.1	15227.0	15768.2	16122.5	15978.4	16157.5	15090.7	11730.7
62.5°	12926.0	12910.4	13284.2	14826.0	16725.9	17091.9	17356.7	16714.3	16445.6	15227.0	11357.0
65°	13436.0	13611.2	14199.1	16138.0	18135.3	18555.8	18396.2	17411.2	16725.9	14826.0	10305.8
67.5°	13821.5	14082.3	15102.4	17372.2	19427.9	19723.8	19501.9	17940.7	16395.0	13253.0	8394.1
70°	14047.3	14312.0	15748.7	18400.1	20459.7	20673.8	20152.1	17531.9	14463.9	9597.2	5236.6
71°	13977.2	14300.4	15873.3	18509.1	20705.0	20864.6	20054.8	16776.5	13007.8	8035.9	3819.4
72.5°	13342.6	13646.3	15355.5	18431.2	20409.1	20311.7	19295.6	14962.2	10239.6	5123.7	1973.9
75°	9803.5	10130.6	13179.1	15943.4	18217.1	17547.4	15616.3	10500.4	5341.7	1569.0	576.2
77.5°	4882.3	4936.8	8180.0	11575.0	13362.1	12696.3	10465.4	5855.6	1997.3	463.3	288.1
80°	2250.4	2265.9	3068.0	5995.8	8078.8	7603.8	5863.4	2888.9	903.3	245.3	225.8
82.5°	1534.0	1557.3	1849.4	2484.0	3507.9	2959.0	2375.0	1849.4	517.8	147.9	221.9
85°	280.3	257.0	1035.6	1316.0	1354.9	918.8	821.5	1600.2	194.7	85.7	194.7
87.5°	0.0	3.9	144.1	537.3	482.8	214.1	280.3	389.3	19.5	27.3	35.0
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°	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5	5166.5
2.5°	5158.7	5115.9	4971.8	4812.2	4668.2	4555.2	4411.2	4345.0	4239.9	4181.5	4177.6
5°	5084.7	4967.9	4718.8	4450.1	4150.3	3901.2	3624.7	3469.0	3289.9	3235.4	3223.7
7.5°	4960.2	4792.7	4426.8	4049.1	3589.7	3149.7	2811.0	2448.9	2227.0	2133.6	2098.5
10°	4882.3	4679.8	4181.5	3616.9	2974.5	2355.5	1880.5	1495.1	1292.6	1195.3	1171.9
12.5°	4882.3	4664.3	3982.9	3204.2	2351.6	1611.9	1164.1	942.2	876.0	852.6	852.6
15°	4870.6	4633.1	3792.1	2779.9	1740.3	1082.4	868.2	821.5	813.7	809.8	805.9
17.5°	4929.0	4578.6	3597.5	2324.3	1230.3	852.6	798.1	790.4	782.6	782.6	774.8
20°	4971.8	4547.5	3363.9	1841.6	918.8	790.4	767.0	755.3	751.4	747.5	755.3
22.5°	4936.8	4500.7	3075.8	1378.3	802.0	751.4	735.8	724.2	716.4	716.4	720.3
25°	5003.0	4457.9	2787.7	1039.5	751.4	716.4	700.8	693.0	689.1	685.2	677.4
27.5°	5092.5	4477.4	2445.0	837.1	708.6	681.3	665.8	658.0	654.1	646.3	654.1
30°	5201.5	4473.5	2067.4	732.0	669.7	642.4	626.8	622.9	615.2	611.3	615.2
32.5°	5388.4	4574.7	1678.0	677.4	626.8	603.5	587.9	584.0	580.1	576.2	572.3
35°	5789.4	4699.3	1312.1	634.6	587.9	560.6	549.0	541.2	537.3	533.4	529.5
37.5°	6283.9	4975.7	1000.6	595.7	549.0	521.7	510.0	506.1	490.6	486.7	482.8
40°	6903.0	5271.6	770.9	552.9	513.9	486.7	475.0	463.3	443.8	436.1	428.3
42.5°	7673.8	5559.7	634.6	513.9	475.0	455.5	436.1	416.6	401.0	385.4	377.7
45°	8444.7	5894.6	556.8	478.9	443.8	420.5	404.9	377.7	350.4	327.0	323.2
47.5°	9087.1	6015.3	510.0	440.0	412.7	393.2	369.9	334.8	295.9	272.5	268.6
50°	9566.0	5945.2	463.3	401.0	377.7	358.2	327.0	284.2	245.3	221.9	214.1
52.5°	9659.5	5637.6	420.5	369.9	342.6	319.3	284.2	237.5	194.7	171.3	167.4
55°	9593.3	5127.6	385.4	342.6	311.5	276.4	237.5	190.8	151.8	128.5	124.6
57.5°	9457.0	4524.1	346.5	307.6	272.5	237.5	194.7	155.7	112.9	89.5	89.5
60°	8993.7	3702.6	307.6	268.6	233.6	202.5	159.6	112.9	77.9	58.4	54.5
62.5°	8347.4	2846.1	268.6	229.7	202.5	167.4	124.6	81.8	46.7	31.1	31.1
65°	7167.7	1993.4	225.8	190.8	167.4	136.3	93.4	50.6	27.3	11.7	11.7
67.5°	5446.8	1234.2	186.9	159.6	144.1	109.0	66.2	31.1	11.7	3.9	0.0
70°	3126.4	642.4	147.9	128.5	112.9	81.8	46.7	15.6	7.8	0.0	0.0
71°	2184.2	475.0	132.4	112.9	101.2	74.0	38.9	11.7	3.9	0.0	0.0
72.5°	1094.0	315.4	112.9	93.4	81.8	58.4	31.1	11.7	3.9	0.0	0.0
75°	389.3	202.5	77.9	62.3	58.4	42.8	19.5	7.8	3.9	0.0	0.0
77.5°	268.6	163.5	54.5	38.9	38.9	27.3	11.7	3.9	3.9	0.0	0.0
80°	245.3	89.5	35.0	23.4	19.5	15.6	7.8	3.9	0.0	0.0	0.0
82.5°	245.3	66.2	19.5	15.6	11.7	7.8	3.9	0.0	0.0	0.0	0.0
85°	171.3	35.0	11.7	11.7	7.8	3.9	0.0	0.0	0.0	0.0	0.0
87.5°	27.3	11.7	7.8	3.9	3.9	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)