

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: P483643

Luminaire Tested: **IFLD-L-SA7C-740-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483643
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-740-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

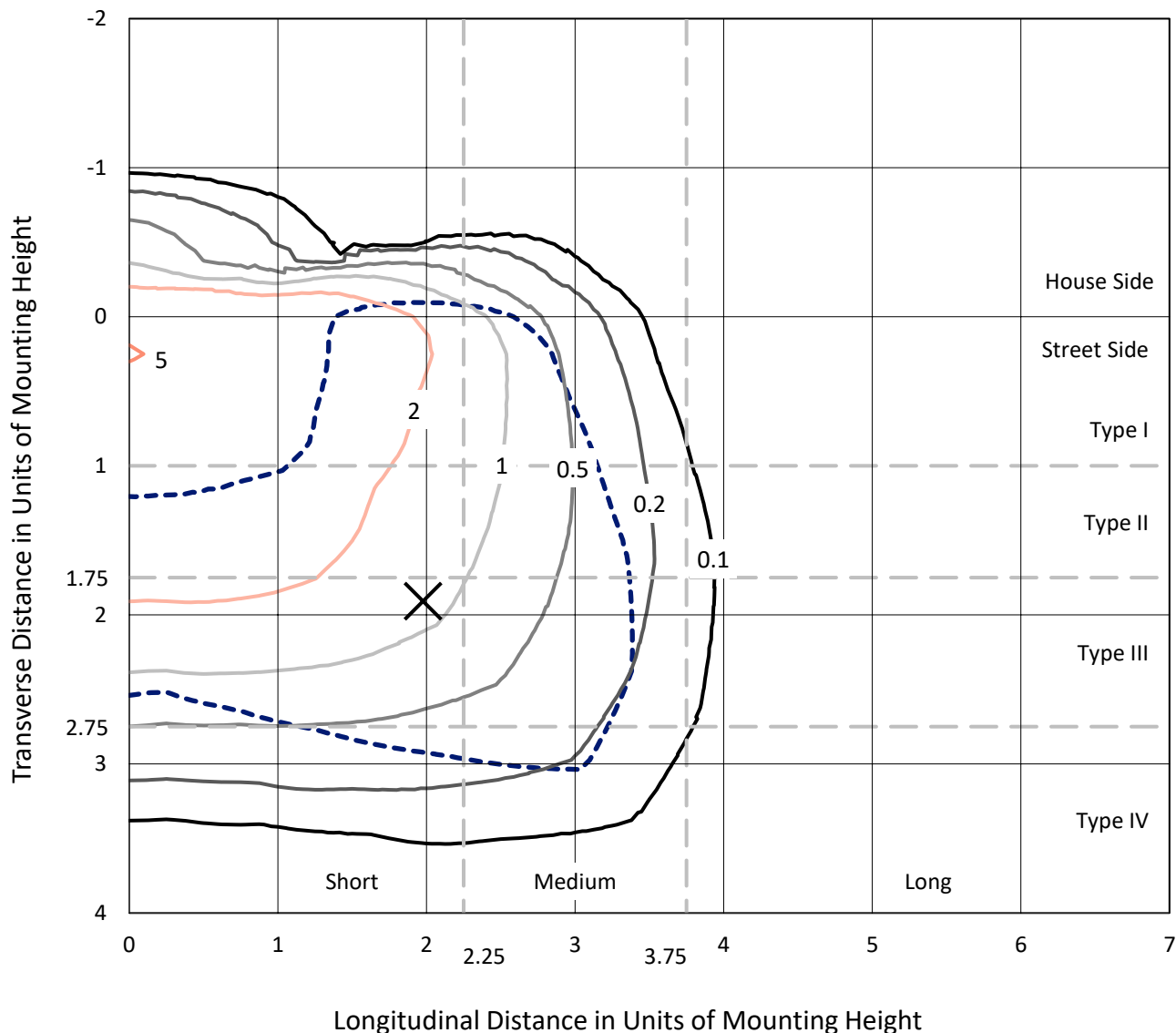
Lumens per Lamp: N/A
Luminaire Lumens: 32708.9 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 369
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

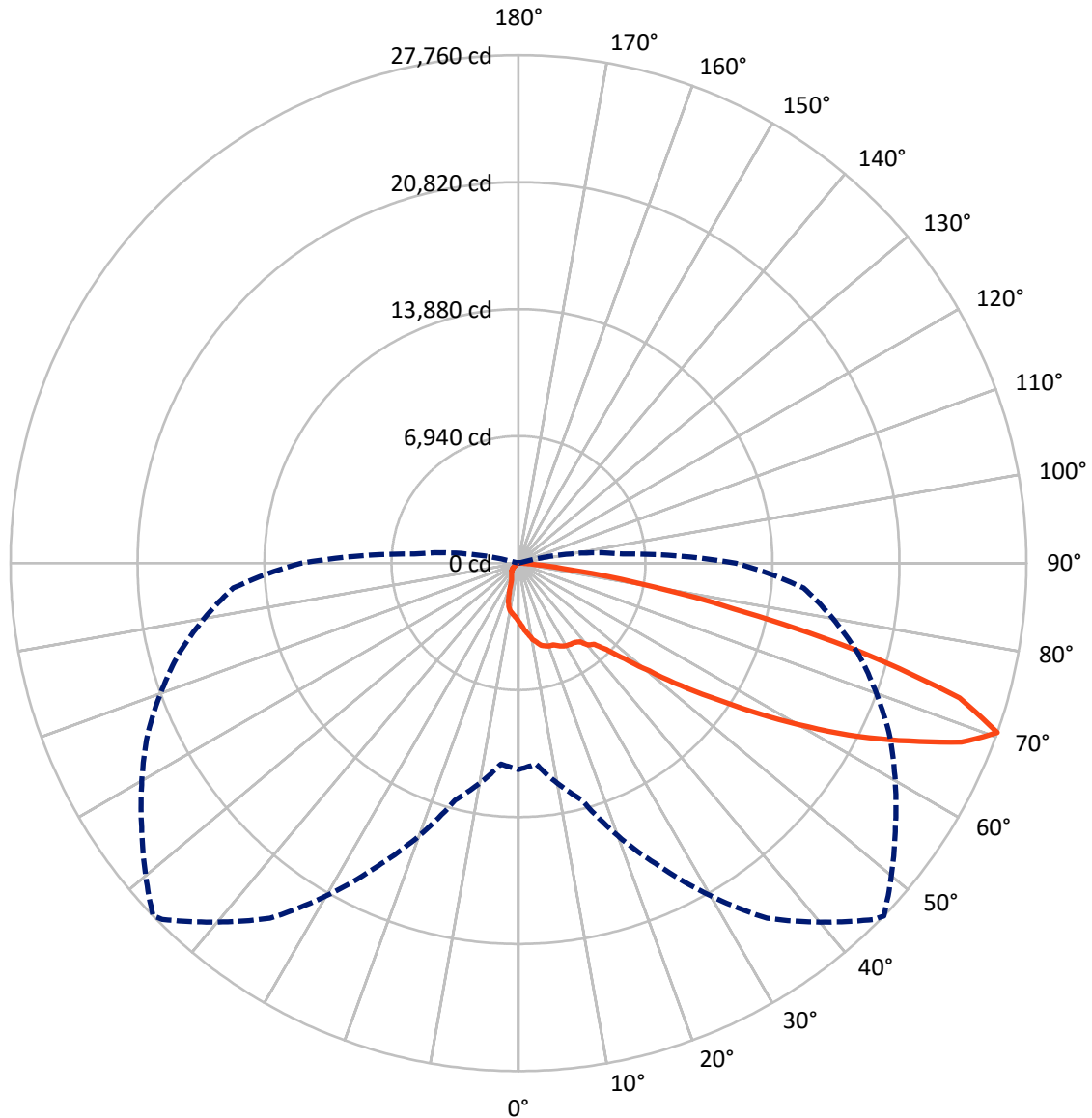
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3254.6	0.0	3254.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	29454.3	0.0	29454.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	32708.9	0.0	32708.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.2	1.0
10°-20°	966.9	3.0
20°-30°	1548.8	4.7
30°-40°	2210.6	6.8
40°-50°	3817.2	11.7
50°-60°	7308.3	22.3
60°-70°	10822.5	33.1
70°-80°	5360.3	16.4
80°-90°	354.2	1.1
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°	32708.9	100.0
0°-180°	32708.9	100.0

Coefficient of Utilization

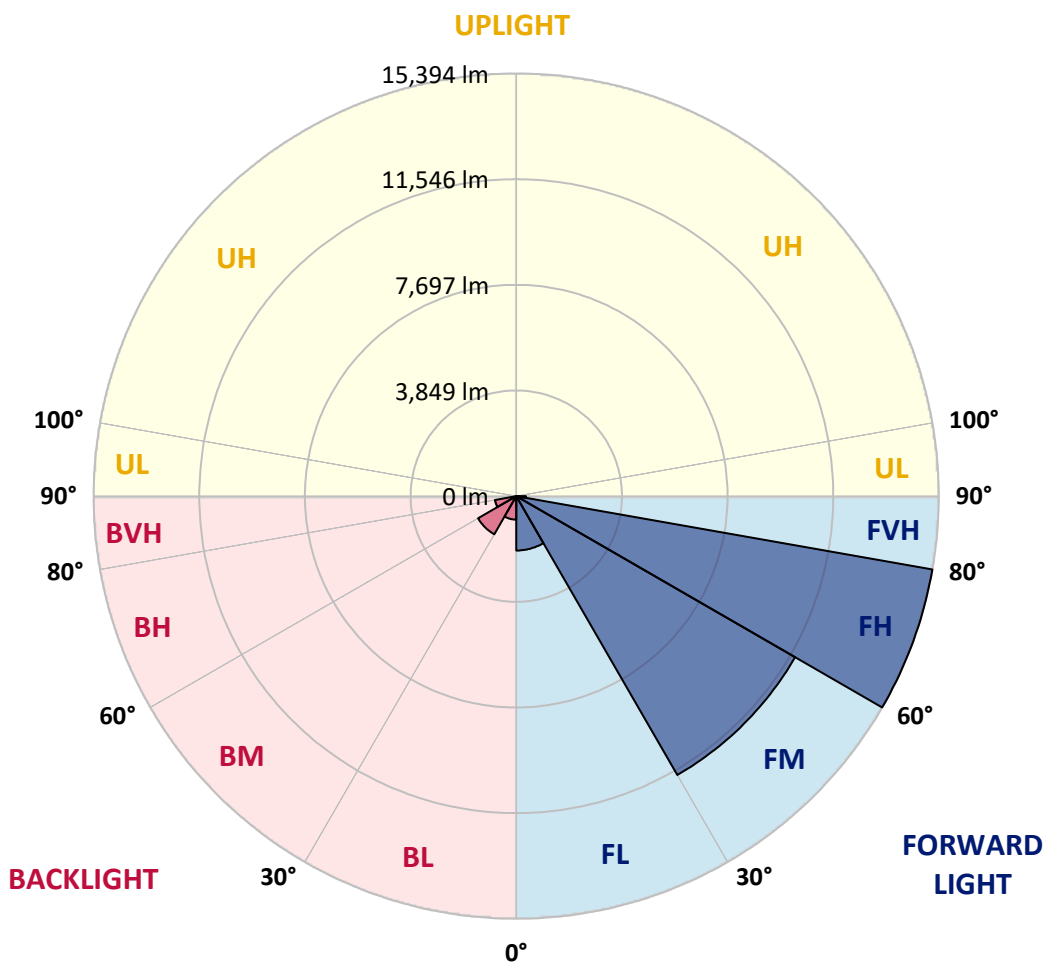


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1980.8	6.1			
FM (30°-60°)	11729.3	35.9			
FH (60°-80°)	15394.5	47.1			G5
FVH (80°-90°)	349.7	1.1			G3/500
BL (0°-30°)	855.0	2.6	B2/1000		
BM (30°-60°)	1606.8	4.9	B2/2500		
BH (60°-80°)	788.2	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.5	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°	45°	46°	55°	65°	75°	85°
0°	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0
2.5°	3582.9	3559.4	3521.7	3507.6	3469.9	3451.1	3422.9	3408.7	3356.9	3305.2	3272.2
5°	4020.8	3964.3	3983.1	3926.6	3804.2	3705.4	3700.6	3592.4	3474.7	3380.5	3253.4
7.5°	4463.4	4416.3	4345.7	4265.6	4129.1	3983.1	3940.8	3837.2	3672.4	3507.6	3338.1
10°	4797.7	4764.7	4703.5	4590.5	4402.2	4237.4	4242.1	4067.9	3893.7	3705.4	3474.7
12.5°	5004.8	5018.9	4929.5	4816.5	4651.7	4444.5	4439.8	4322.1	4124.4	3926.6	3653.6
15°	5212.0	5263.8	5127.2	4995.4	4783.5	4632.9	4661.1	4519.9	4326.8	4100.8	3799.5
17.5°	5244.9	5259.1	5230.8	5037.8	4882.4	4755.3	4760.0	4665.8	4519.9	4275.0	4016.1
20°	5188.4	5179.0	5146.1	5004.8	4901.2	4825.9	4830.6	4807.1	4727.0	4529.3	4176.2
22.5°	5023.7	5023.7	4981.3	4887.1	4840.0	4910.7	4854.2	4943.6	4858.9	4741.2	4449.3
25°	4891.8	4943.6	4920.1	4858.9	4877.7	4971.9	5000.1	5084.9	5070.7	4924.8	4637.6
27.5°	5033.1	4971.9	4986.0	4915.4	4986.0	5127.2	5141.4	5202.6	5197.9	5080.2	4807.1
30°	5127.2	5183.7	5075.4	4920.1	4995.4	5235.5	5226.1	5306.1	5343.8	5202.6	4967.2
32.5°	5428.6	5381.5	5292.0	5084.9	5094.3	5230.8	5273.2	5376.8	5400.3	5315.6	5122.5
35°	6045.3	5974.7	5583.9	5273.2	5226.1	5292.0	5320.3	5522.7	5565.1	5470.9	5287.3
37.5°	6996.4	6836.3	6365.5	5678.1	5466.2	5452.1	5452.1	5720.5	5880.5	5664.0	5532.1
40°	8357.1	8131.1	7622.6	6426.7	5781.7	5838.2	5894.7	6040.6	6021.8	5880.5	5852.3
42.5°	10089.7	9915.5	9364.6	7683.8	6384.3	6101.8	6054.7	6252.5	6549.1	6492.6	6473.8
45°	11535.1	11544.5	11191.4	9407.0	7424.8	6709.2	6742.1	6892.8	7391.9	7349.5	7344.8
47.5°	12589.7	12457.9	12406.1	11069.0	8940.9	7862.7	7815.6	7919.2	8568.9	8837.3	8959.7
50°	13550.2	13460.8	13338.3	12683.9	10763.0	9308.1	9261.0	9270.5	10263.9	10640.5	10941.9
52.5°	14741.4	14854.4	14449.5	14049.3	13121.8	11186.7	11134.9	10951.3	12184.8	12702.7	13060.6
55°	16210.3	15998.5	15541.8	15748.9	15377.0	13215.9	13121.8	12905.2	14374.1	14590.7	14967.4
57.5°	16535.2	16375.1	16845.9	17580.4	17938.3	15598.3	15560.6	15169.8	16215.0	16017.3	17081.4
60°	17345.0	17387.4	18041.8	19501.4	20122.9	18347.9	18164.2	17476.8	17999.5	18037.1	19171.8
62.5°	18178.4	18079.5	19543.7	20946.8	21902.6	20951.5	20890.3	19524.9	20118.1	19637.9	21139.8
65°	17566.3	17717.0	19812.1	22161.5	24209.6	23498.6	23446.8	21497.7	21822.5	21224.6	21940.2
67.5°	15391.1	15085.1	18018.3	21605.9	25396.0	26168.2	26111.7	23649.3	22783.0	21215.2	20278.2
70°	11280.9	11017.2	13409.0	18296.1	23696.4	27533.6	27759.6	25146.5	22392.2	19237.7	15645.4
72.5°	5527.4	5532.1	7514.3	12406.1	18748.1	25094.7	25207.7	23056.1	19237.7	14181.1	8860.8
75°	1633.7	1652.6	2782.5	6083.0	12118.9	19058.8	19185.9	17500.4	13333.6	7326.0	3022.7
77.5°	597.9	597.9	922.8	2283.5	6045.3	12029.5	12020.0	10744.1	6751.6	2481.2	706.2
80°	310.7	324.9	480.2	932.2	2617.8	6266.6	6502.0	5259.1	2566.0	1045.2	207.2
82.5°	127.1	141.2	263.7	480.2	1257.1	2198.7	2405.9	2062.2	1115.8	729.8	94.2
85°	37.7	42.4	127.1	268.4	494.4	550.9	612.1	692.1	701.5	565.0	42.4
87.5°	4.7	4.7	51.8	89.5	108.3	117.7	136.5	136.5	357.8	395.5	23.5
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°	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0	3211.0
2.5°	3234.5	3211.0	3173.3	3088.6	3069.7	3008.5	3003.8	2947.3	2966.2	2928.5	2914.4
5°	3211.0	3159.2	3055.6	2989.7	2923.8	2881.4	2853.2	2829.6	2824.9	2806.1	2796.7
7.5°	3253.4	3182.7	3022.7	2919.1	2806.1	2768.4	2707.2	2702.5	2669.6	2636.6	2636.6
10°	3394.6	3267.5	3093.3	2919.1	2773.1	2650.7	2509.5	2405.9	2368.2	2283.5	2292.9
12.5°	3507.6	3394.6	3140.4	2961.5	2740.2	2462.4	2151.6	1911.5	1798.5	1690.2	1732.6
15°	3667.7	3502.9	3229.8	2970.9	2613.1	2132.8	1624.3	1356.0	1252.4	1228.8	1224.1
17.5°	3841.9	3667.7	3342.8	2947.3	2354.1	1647.9	1195.9	1040.5	1059.3	1087.6	1082.9
20°	4034.9	3823.1	3427.6	2867.3	1944.5	1195.9	979.3	974.6	1002.8	1045.2	1054.6
22.5°	4237.4	4053.8	3531.2	2627.2	1450.1	960.5	941.6	941.6	960.5	1012.3	1002.8
25°	4463.4	4218.5	3582.9	2255.2	1040.5	885.1	894.6	913.4	922.8	965.2	969.9
27.5°	4637.6	4402.2	3597.1	1807.9	847.5	819.2	842.8	866.3	880.4	913.4	927.5
30°	4797.7	4632.9	3521.7	1346.5	776.9	762.7	772.1	805.1	833.4	861.6	861.6
32.5°	5000.1	4764.7	3347.5	955.8	734.5	710.9	706.2	720.4	753.3	786.3	786.3
35°	5207.3	4986.0	3069.7	767.4	696.8	663.9	645.0	630.9	645.0	668.6	687.4
37.5°	5508.6	5320.3	2721.3	706.2	668.6	621.5	583.8	550.9	527.3	522.6	536.7
40°	5937.0	5696.9	2274.1	663.9	635.6	579.1	522.6	466.1	414.3	381.4	386.1
42.5°	6586.8	6252.5	1789.1	640.3	612.1	532.0	452.0	371.9	306.0	273.1	273.1
45°	7514.3	6987.0	1313.6	616.8	583.8	475.5	371.9	277.8	211.9	193.0	197.7
47.5°	8912.6	7872.1	941.6	579.1	546.2	414.3	291.9	197.7	155.4	146.0	150.7
50°	10739.4	8922.0	734.5	536.7	499.1	348.4	216.6	146.0	122.4	117.7	122.4
52.5°	12655.6	9981.4	645.0	499.1	428.4	277.8	160.1	117.7	103.6	98.9	103.6
55°	14294.1	10664.1	560.3	442.6	343.7	207.2	127.1	103.6	89.5	75.3	75.3
57.5°	15951.4	11007.8	442.6	367.2	254.2	155.4	108.3	89.5	75.3	61.2	56.5
60°	17297.9	11252.6	315.4	273.1	178.9	122.4	94.2	80.0	61.2	47.1	42.4
62.5°	18183.1	10551.1	230.7	207.2	131.8	103.6	80.0	65.9	47.1	33.0	33.0
65°	17745.2	9581.2	178.9	146.0	98.9	80.0	65.9	47.1	33.0	18.8	14.1
67.5°	15923.1	7806.2	146.0	108.3	75.3	61.2	51.8	37.7	18.8	4.7	4.7
70°	11878.8	5720.5	117.7	80.0	61.2	47.1	37.7	23.5	9.4	4.7	0.0
72.5°	6497.3	3131.0	94.2	65.9	47.1	37.7	28.2	18.8	9.4	0.0	0.0
75°	2146.9	833.4	70.6	47.1	28.2	23.5	18.8	14.1	4.7	0.0	0.0
77.5°	517.9	216.6	56.5	42.4	23.5	14.1	9.4	4.7	4.7	0.0	0.0
80°	160.1	89.5	42.4	28.2	18.8	14.1	4.7	0.0	0.0	0.0	0.0
82.5°	65.9	42.4	18.8	18.8	14.1	4.7	0.0	0.0	0.0	0.0	0.0
85°	33.0	23.5	14.1	9.4	9.4	4.7	0.0	0.0	0.0	0.0	0.0
87.5°	23.5	9.4	4.7	4.7	0.0	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)