

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: P483685

Luminaire Tested: **IFLD-L-SA8A-750-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483685
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-750-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

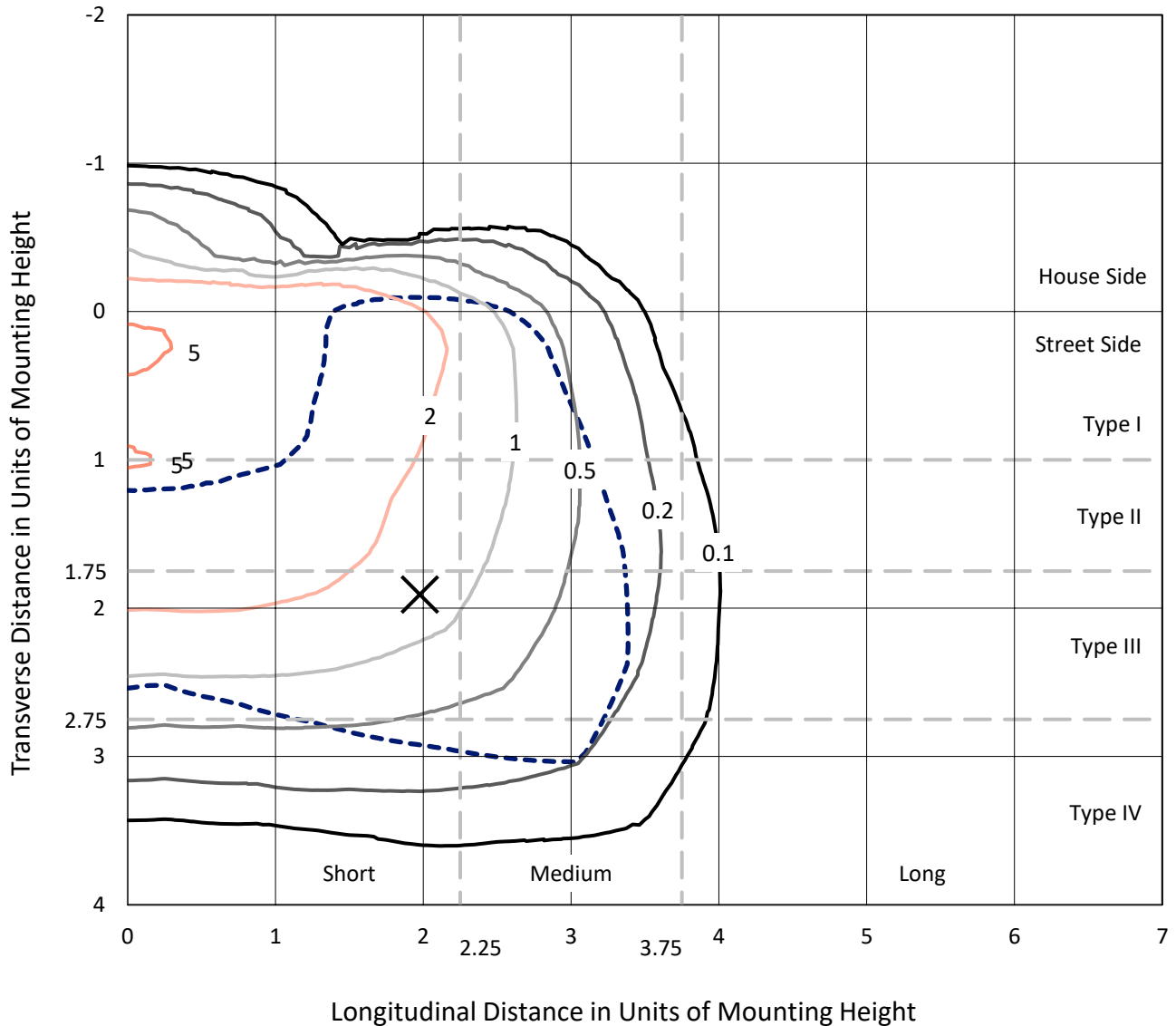
Lumens per Lamp: N/A
Luminaire Lumens: 25854.3 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 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

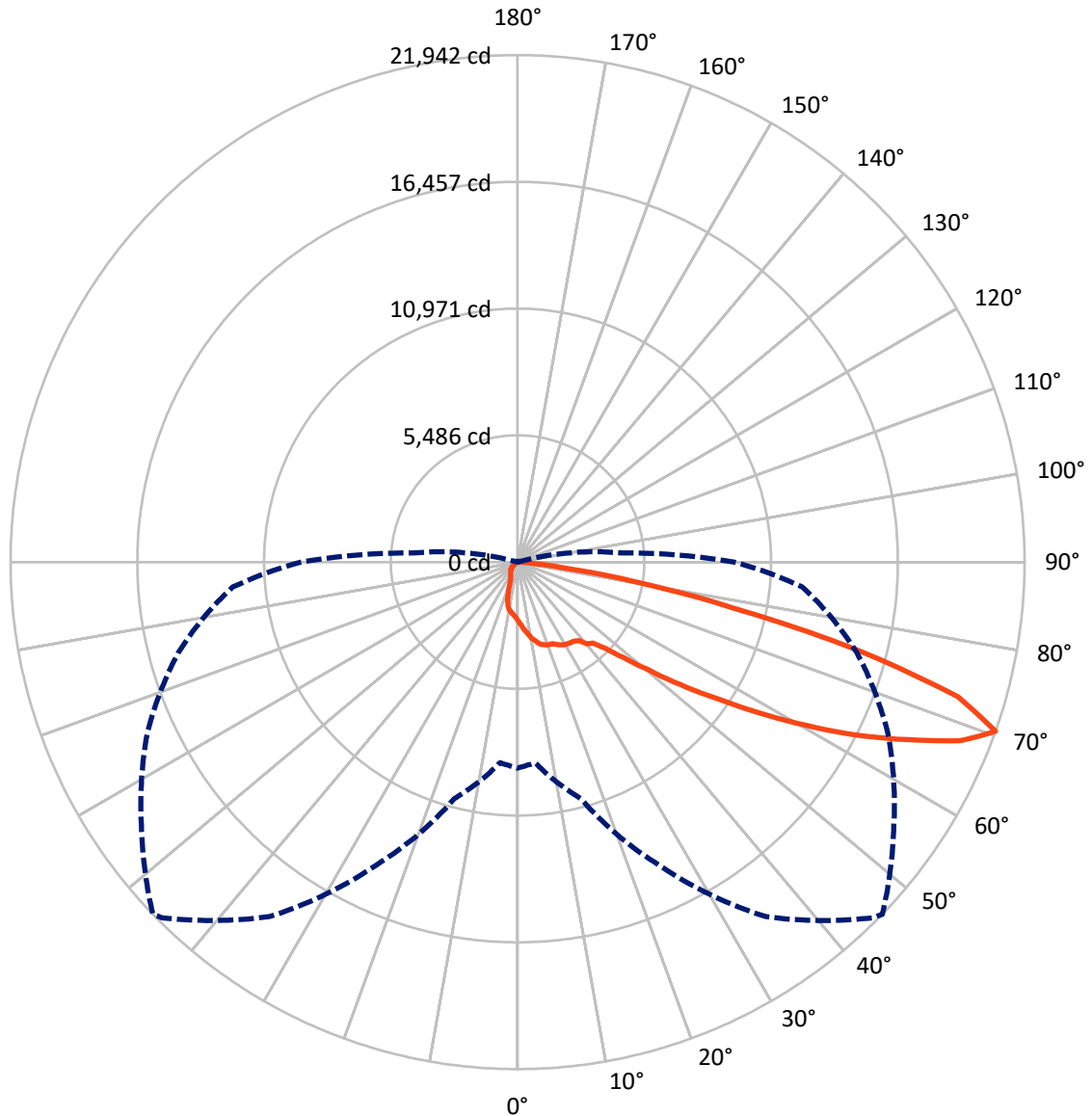
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2572.6	0.0	2572.6
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	23281.7	0.0	23281.7
	% Fixture	90.0	0.0	90.0
Total	Lumens	25854.3	0.0	25854.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.1	1.0
10°-20°	764.3	3.0
20°-30°	1224.2	4.7
30°-40°	1747.4	6.8
40°-50°	3017.2	11.7
50°-60°	5776.8	22.3
60°-70°	8554.5	33.1
70°-80°	4236.9	16.4
80°-90°	280.0	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°	25854.3	100.0
0°-180°	25854.3	100.0

Coefficient of Utilization

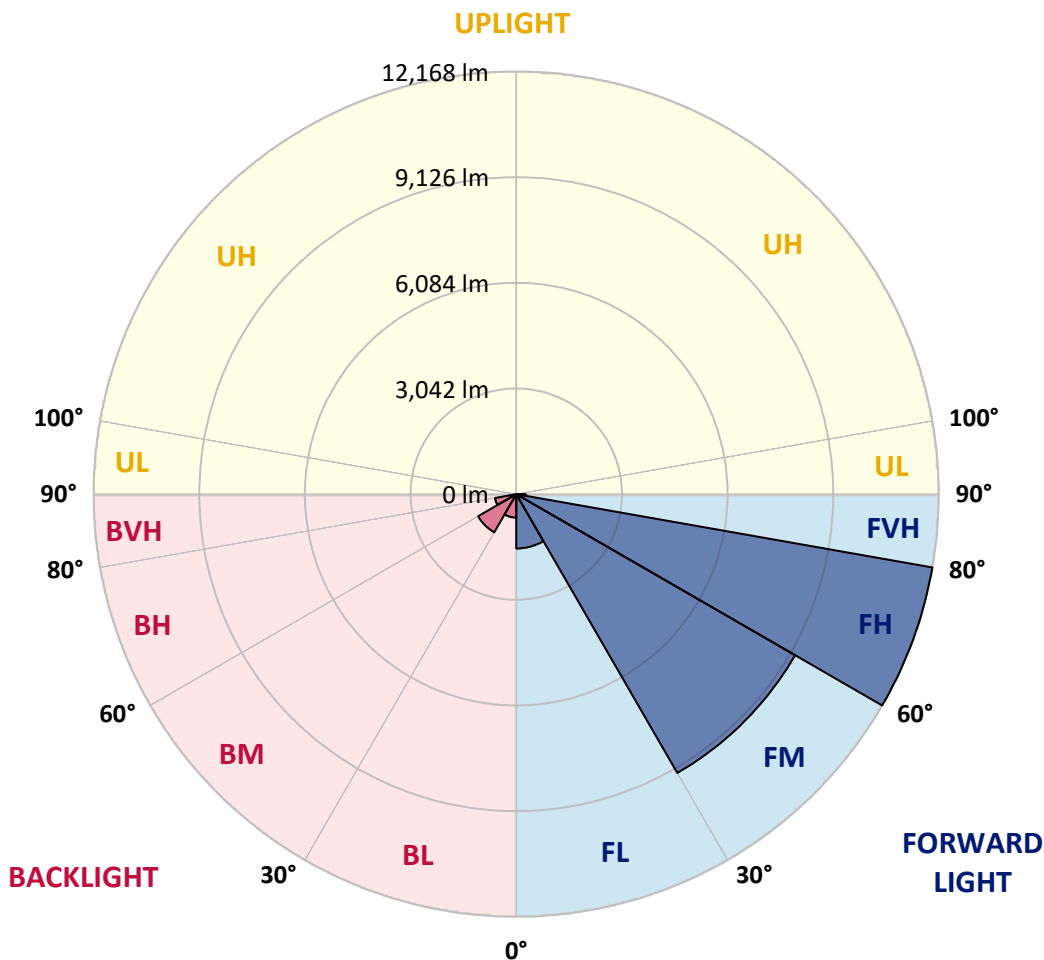


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1565.7	6.1			
FM (30°-60°)	9271.3	35.9			
FH (60°-80°)	12168.4	47.1			G5
FVH (80°-90°)	276.4	1.1			G3/500
BL (0°-30°)	675.9	2.6	B2/1000		
BM (30°-60°)	1270.1	4.9	B2/2500		
BH (60°-80°)	623.1	2.4	B2/1000		G2/1000
BVH (80°-90°)	3.6	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°	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1
2.5°	2832.1	2813.5	2783.7	2772.5	2742.8	2727.9	2705.6	2694.4	2653.5	2612.5	2586.5
5°	3178.2	3133.5	3148.4	3103.8	3007.0	2928.8	2925.1	2839.5	2746.5	2672.1	2571.6
7.5°	3528.0	3490.8	3435.0	3371.7	3263.8	3148.4	3114.9	3033.0	2902.8	2772.5	2638.6
10°	3792.2	3766.2	3717.8	3628.5	3479.6	3349.4	3353.1	3215.4	3077.7	2928.8	2746.5
12.5°	3956.0	3967.2	3896.4	3807.1	3676.9	3513.1	3509.4	3416.4	3260.1	3103.8	2887.9
15°	4119.7	4160.7	4052.7	3948.5	3781.1	3662.0	3684.3	3572.7	3420.1	3241.5	3003.3
17.5°	4145.8	4157.0	4134.6	3982.0	3859.2	3758.7	3762.5	3688.0	3572.7	3379.2	3174.5
20°	4101.1	4093.7	4067.6	3956.0	3874.1	3814.6	3818.3	3799.7	3736.4	3580.1	3301.0
22.5°	3970.9	3970.9	3937.4	3863.0	3825.7	3881.6	3836.9	3907.6	3840.6	3747.6	3516.8
25°	3866.7	3907.6	3889.0	3840.6	3855.5	3929.9	3952.3	4019.3	4008.1	3892.7	3665.7
27.5°	3978.3	3929.9	3941.1	3885.3	3941.1	4052.7	4063.9	4112.3	4108.6	4015.5	3799.7
30°	4052.7	4097.4	4011.8	3889.0	3948.5	4138.3	4130.9	4194.2	4223.9	4112.3	3926.2
32.5°	4290.9	4253.7	4183.0	4019.3	4026.7	4134.6	4168.1	4250.0	4268.6	4201.6	4049.0
35°	4778.4	4722.6	4413.7	4168.1	4130.9	4183.0	4205.3	4365.4	4398.9	4324.4	4179.3
37.5°	5530.2	5403.7	5031.5	4488.2	4320.7	4309.5	4309.5	4521.7	4648.2	4477.0	4372.8
40°	6605.7	6427.1	6025.2	5079.9	4570.0	4614.7	4659.4	4774.7	4759.8	4648.2	4625.9
42.5°	7975.2	7837.5	7402.1	6073.5	5046.4	4823.1	4785.9	4942.2	5176.7	5132.0	5117.1
45°	9117.8	9125.2	8846.1	7435.6	5868.9	5303.2	5329.2	5448.3	5842.8	5809.3	5805.6
47.5°	9951.4	9847.2	9806.2	8749.3	7067.2	6215.0	6177.7	6259.6	6773.2	6985.3	7082.1
50°	10710.6	10639.9	10543.1	10025.8	8507.4	7357.5	7320.3	7327.7	8112.9	8410.7	8648.8
52.5°	11652.1	11741.4	11421.4	11105.1	10371.9	8842.4	8801.4	8656.3	9631.3	10040.7	10323.5
55°	12813.2	12645.8	12284.8	12448.5	12154.5	10446.3	10371.9	10200.7	11361.8	11533.0	11830.8
57.5°	13070.0	12943.5	13315.6	13896.2	14179.0	12329.4	12299.7	11990.8	12817.0	12660.7	13501.7
60°	13710.1	13743.6	14260.9	15414.6	15905.8	14502.8	14357.7	13814.3	14227.4	14257.2	15154.1
62.5°	14368.8	14290.7	15448.1	16557.1	17312.6	16560.8	16512.4	15433.2	15902.1	15522.5	16709.7
65°	13885.0	14004.1	15660.2	17517.3	19136.1	18574.2	18533.2	16992.5	17249.3	16776.7	17342.3
67.5°	12165.7	11923.8	14242.3	17078.1	20073.9	20684.3	20639.6	18693.3	18008.5	16769.2	16028.6
70°	8916.8	8708.4	10598.9	14461.9	18730.5	21763.5	21942.2	19876.7	17699.6	15206.2	12366.7
72.5°	4369.1	4372.8	5939.6	9806.2	14819.1	19835.8	19925.1	18224.3	15206.2	11209.3	7003.9
75°	1291.4	1306.3	2199.4	4808.2	9579.2	15064.8	15165.2	13832.9	10539.4	5790.7	2389.2
77.5°	472.6	472.6	729.4	1804.9	4778.4	9508.5	9501.1	8492.5	5336.7	1961.2	558.2
80°	245.6	256.8	379.6	736.9	2069.2	4953.4	5139.4	4157.0	2028.2	826.2	163.7
82.5°	100.5	111.6	208.4	379.6	993.6	1738.0	1901.7	1630.0	882.0	576.8	74.4
85°	29.8	33.5	100.5	212.1	390.8	435.4	483.8	547.1	554.5	446.6	33.5
87.5°	3.7	3.7	40.9	70.7	85.6	93.0	107.9	107.9	282.8	312.6	18.6
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°	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1	2538.1
2.5°	2556.7	2538.1	2508.3	2441.3	2426.4	2378.1	2374.3	2329.7	2344.6	2314.8	2303.6
5°	2538.1	2497.1	2415.3	2363.2	2311.1	2277.6	2255.2	2236.6	2232.9	2218.0	2210.6
7.5°	2571.6	2515.8	2389.2	2307.4	2218.0	2188.3	2139.9	2136.2	2110.1	2084.1	2084.1
10°	2683.2	2582.7	2445.0	2307.4	2192.0	2095.2	1983.6	1901.7	1871.9	1804.9	1812.4
12.5°	2772.5	2683.2	2482.3	2340.8	2165.9	1946.4	1700.7	1510.9	1421.6	1336.0	1369.5
15°	2899.1	2768.8	2553.0	2348.3	2065.5	1685.9	1283.9	1071.8	989.9	971.3	967.6
17.5°	3036.8	2899.1	2642.3	2329.7	1860.8	1302.5	945.3	822.5	837.3	859.7	856.0
20°	3189.4	3021.9	2709.3	2266.4	1537.0	945.3	774.1	770.4	792.7	826.2	833.6
22.5°	3349.4	3204.2	2791.1	2076.6	1146.2	759.2	744.3	744.3	759.2	800.1	792.7
25°	3528.0	3334.5	2832.1	1782.6	822.5	699.6	707.1	722.0	729.4	762.9	766.6
27.5°	3665.7	3479.6	2843.3	1429.1	669.9	647.5	666.2	684.8	695.9	722.0	733.1
30°	3792.2	3662.0	2783.7	1064.4	614.1	602.9	610.3	636.4	658.7	681.0	681.0
32.5°	3952.3	3766.2	2646.0	755.5	580.6	562.0	558.2	569.4	595.4	621.5	621.5
35°	4116.0	3941.1	2426.4	606.6	550.8	524.7	509.9	498.7	509.9	528.5	543.3
37.5°	4354.2	4205.3	2151.0	558.2	528.5	491.2	461.5	435.4	416.8	413.1	424.3
40°	4692.9	4503.1	1797.5	524.7	502.4	457.7	413.1	368.4	327.5	301.4	305.2
42.5°	5206.4	4942.2	1414.2	506.1	483.8	420.5	357.3	294.0	241.9	215.8	215.8
45°	5939.6	5522.8	1038.3	487.5	461.5	375.9	294.0	219.6	167.5	152.6	156.3
47.5°	7044.9	6222.4	744.3	457.7	431.7	327.5	230.7	156.3	122.8	115.4	119.1
50°	8488.8	7052.3	580.6	424.3	394.5	275.4	171.2	115.4	96.8	93.0	96.8
52.5°	10003.5	7889.6	509.9	394.5	338.7	219.6	126.5	93.0	81.9	78.2	81.9
55°	11298.6	8429.3	442.9	349.8	271.7	163.7	100.5	81.9	70.7	59.5	59.5
57.5°	12608.6	8700.9	349.8	290.3	201.0	122.8	85.6	70.7	59.5	48.4	44.7
60°	13672.9	8894.5	249.3	215.8	141.4	96.8	74.4	63.3	48.4	37.2	33.5
62.5°	14372.6	8340.0	182.4	163.7	104.2	81.9	63.3	52.1	37.2	26.1	26.1
65°	14026.5	7573.3	141.4	115.4	78.2	63.3	52.1	37.2	26.1	14.9	11.2
67.5°	12586.2	6170.3	115.4	85.6	59.5	48.4	40.9	29.8	14.9	3.7	3.7
70°	9389.4	4521.7	93.0	63.3	48.4	37.2	29.8	18.6	7.4	3.7	0.0
72.5°	5135.7	2474.8	74.4	52.1	37.2	29.8	22.3	14.9	7.4	0.0	0.0
75°	1697.0	658.7	55.8	37.2	22.3	18.6	14.9	11.2	3.7	0.0	0.0
77.5°	409.4	171.2	44.7	33.5	18.6	11.2	7.4	3.7	3.7	0.0	0.0
80°	126.5	70.7	33.5	22.3	14.9	11.2	3.7	0.0	0.0	0.0	0.0
82.5°	52.1	33.5	14.9	14.9	11.2	3.7	0.0	0.0	0.0	0.0	0.0
85°	26.1	18.6	11.2	7.4	7.4	3.7	0.0	0.0	0.0	0.0	0.0
87.5°	18.6	7.4	3.7	3.7	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)