

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: P481776

Luminaire Tested: **IFLD-L-SA8C-760-U-T2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P481776
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-760-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

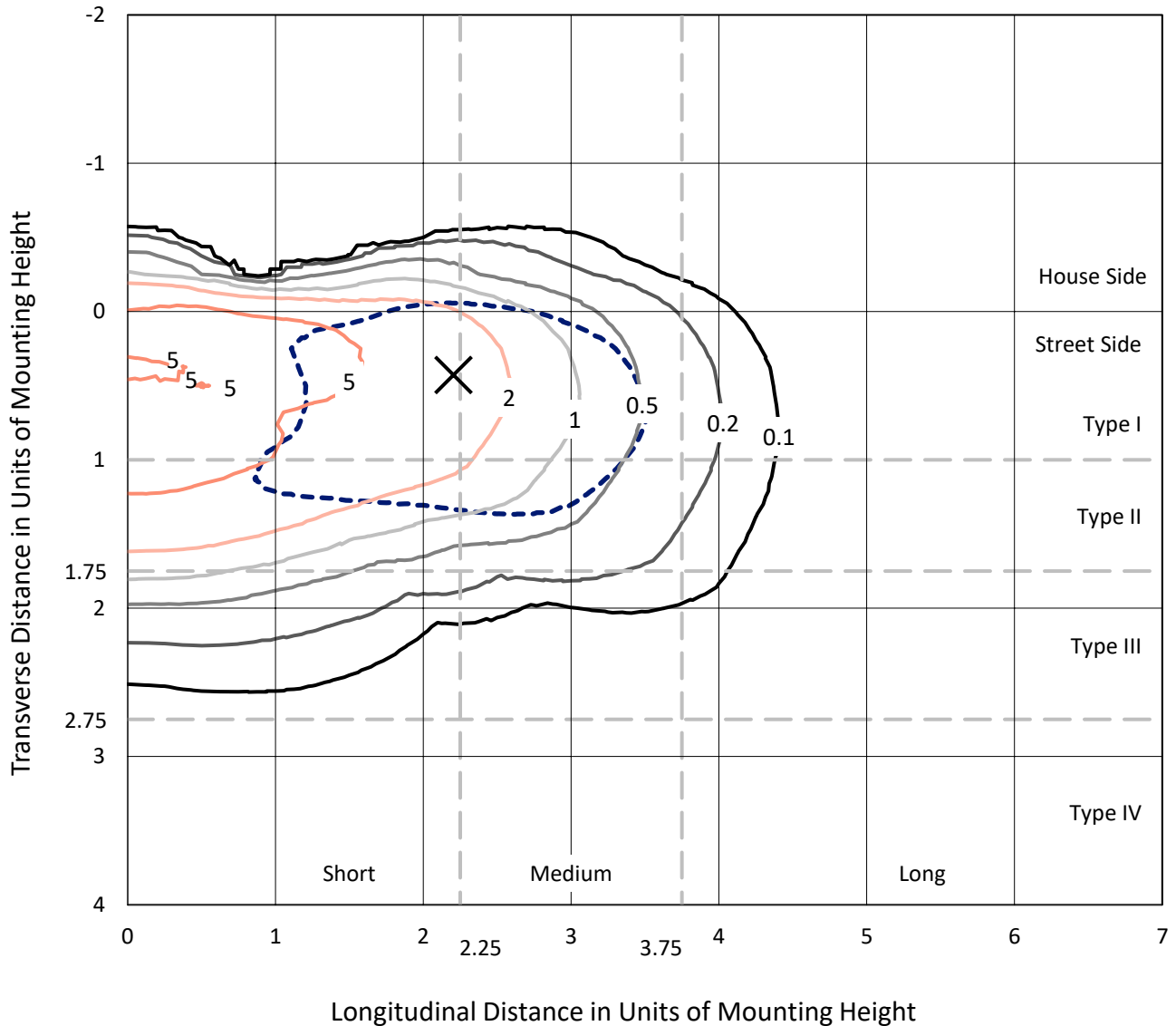
Lumens per Lamp: N/A
Luminaire Lumens: 37320.6 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
Input Voltage (V): 120
Input Current (A_{in}): 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

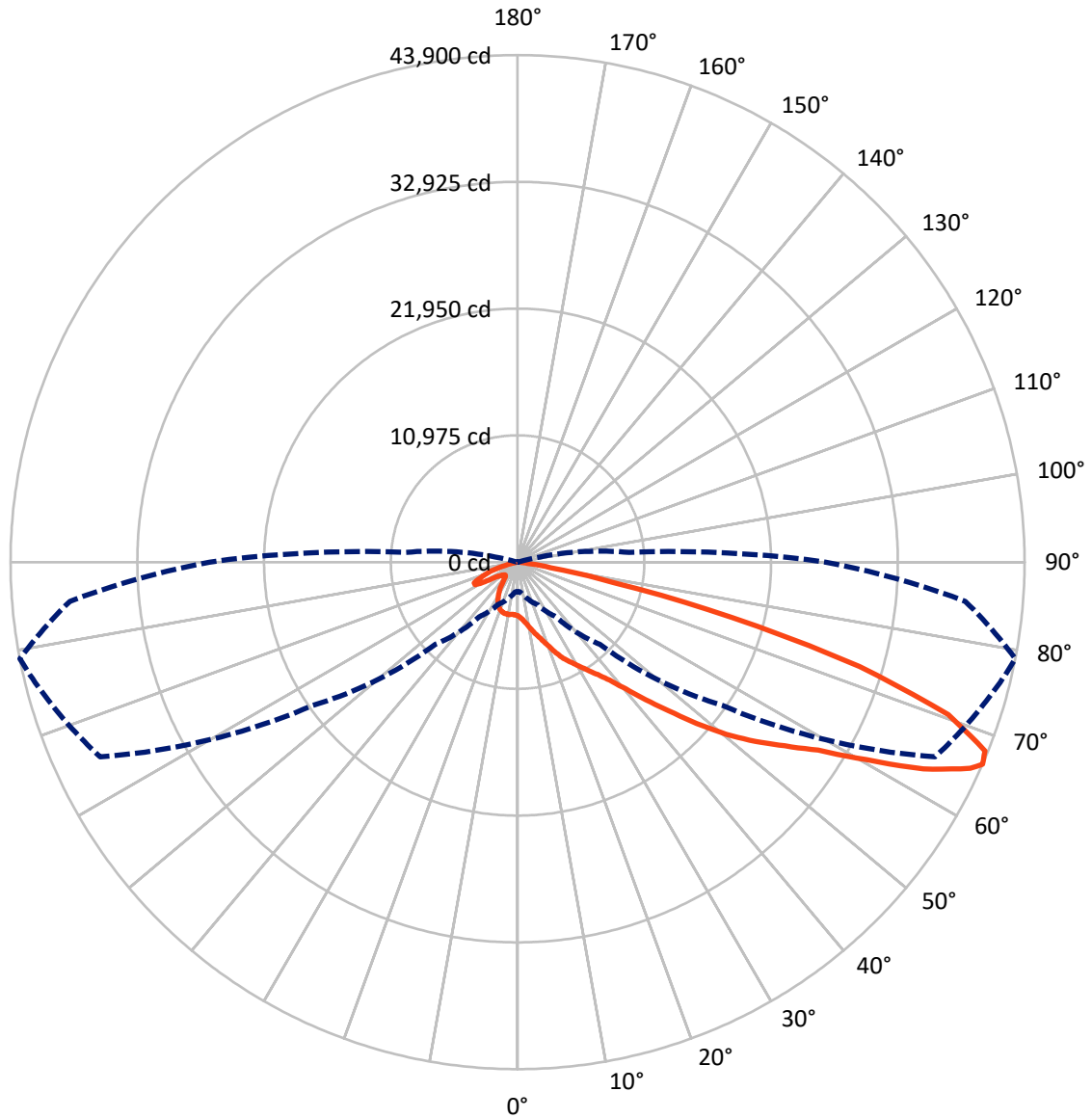
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2802.3	0.0	2802.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	34518.3	0.0	34518.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	37320.6	0.0	37320.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.1	1.2
10°-20°	1208.5	3.2
20°-30°	2007.6	5.4
30°-40°	3448.3	9.2
40°-50°	6247.1	16.7
50°-60°	9874.8	26.5
60°-70°	10048.4	26.9
70°-80°	3831.9	10.3
80°-90°	214.8	0.6
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°	37320.6	100.0
0°-180°	37320.6	100.0

Coefficient of Utilization



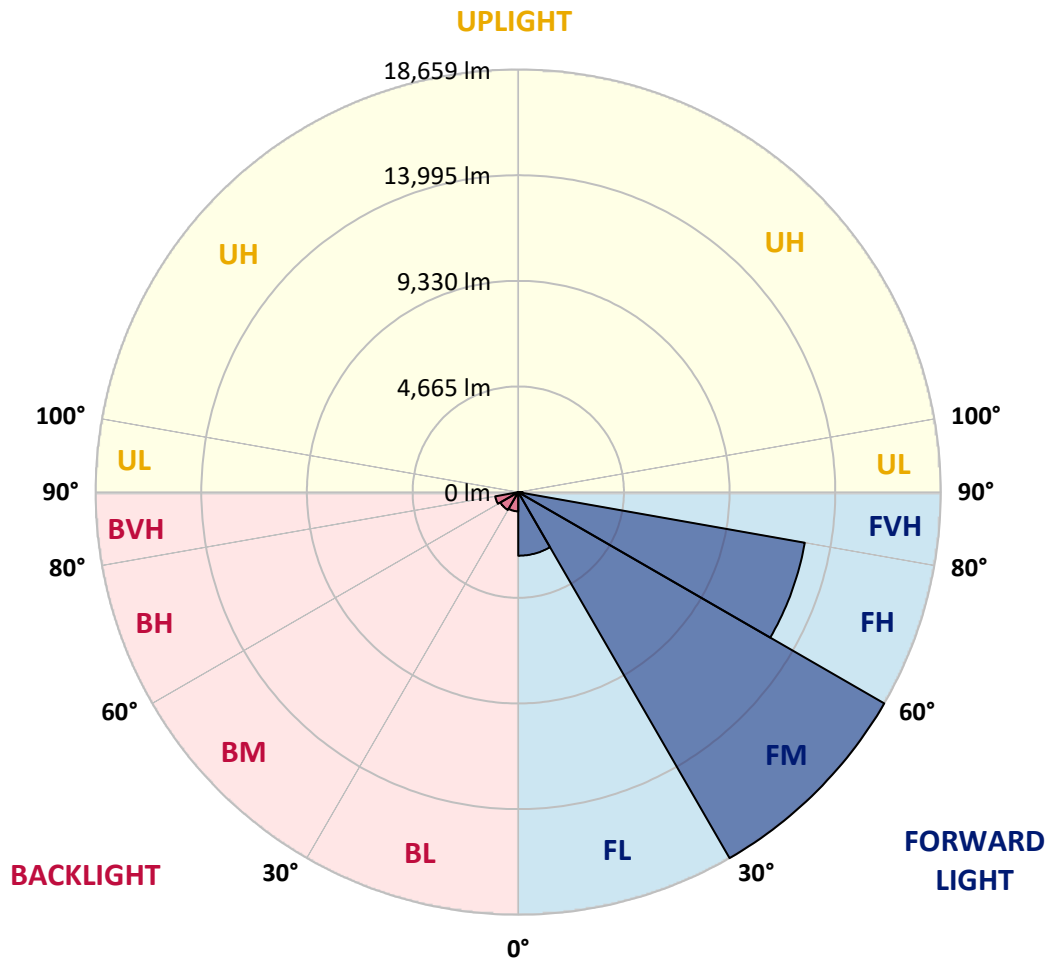
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2807.7	7.5			
FM (30°-60°)	18659.4	50.0			
FH (60°-80°)	12847.3	34.4			G5
FVH (80°-90°)	203.8	0.5			G2/225
BL (0°-30°)	847.5	2.3	B2/1000		
BM (30°-60°)	910.8	2.4	B1/1000		
BH (60°-80°)	1033.0	2.8	B3/2500		G3/2500
BVH (80°-90°)	11.0	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1
2.5°	5258.8	5253.0	5230.0	5189.7	5137.9	5120.7	5045.9	4942.3	4884.8	4821.5	4792.7
5°	5621.2	5592.5	5661.5	5632.7	5644.2	5506.2	5414.1	5339.3	5120.7	5034.4	4896.3
7.5°	5701.8	5730.6	5724.8	5770.8	5816.9	5868.6	5805.3	5696.0	5477.4	5350.8	5201.2
10°	5701.8	5690.3	5736.3	5799.6	5931.9	6047.0	6219.6	6075.8	5908.9	5759.3	5488.9
12.5°	5598.2	5581.0	5627.0	5759.3	5995.2	6231.1	6421.0	6559.1	6323.2	6202.3	5851.4
15°	5281.8	5264.5	5454.4	5690.3	6001.0	6386.5	6783.5	7007.8	6846.7	6656.9	6265.6
17.5°	4890.5	4913.5	5114.9	5506.2	6001.0	6461.3	6967.6	7456.6	7433.6	7192.0	6783.5
20°	4758.2	4775.5	4976.8	5258.8	5822.6	6513.0	7255.2	7945.7	8083.8	7796.1	7261.0
22.5°	5011.4	4994.1	5011.4	5184.0	5701.8	6467.0	7445.1	8503.8	8751.2	8526.8	7888.1
25°	5874.4	5862.9	5719.0	5454.4	5632.7	6363.4	7542.9	8872.0	9441.6	9234.5	8394.5
27.5°	7140.2	7094.1	6869.8	6317.4	5954.9	6426.7	7704.0	9228.7	10045.7	9809.8	8849.0
30°	8498.0	8388.7	8095.3	7404.8	6789.2	6662.6	7796.1	9493.4	10718.9	10419.7	9246.0
32.5°	9435.8	9579.7	9487.6	8785.7	7842.1	7209.2	7945.7	9827.1	11340.3	11144.7	9924.9
35°	10885.7	11052.6	10667.1	10045.7	9096.4	8078.0	8262.1	10097.5	12295.4	11967.4	10557.8
37.5°	12715.4	12842.0	12565.8	11386.3	10385.2	9148.2	8912.3	10661.4	13118.1	12962.8	11369.0
40°	13636.0	14245.8	13854.6	12790.2	11714.3	10644.1	9988.2	11323.0	14550.8	14424.2	12491.0
42.5°	14907.5	15212.4	15011.1	14222.8	13100.9	12243.6	11317.3	12611.8	16288.3	16288.3	14009.9
45°	16253.8	16265.3	16253.8	15609.4	14614.1	14171.0	13112.4	14228.6	18158.3	18365.4	15828.1
47.5°	17358.5	17703.7	17675.0	17289.5	16518.5	16351.6	14907.5	16069.7	20505.7	20868.2	17600.2
50°	17928.1	18313.6	18428.7	18630.0	18595.5	18946.5	16869.5	18204.3	22531.0	23422.8	19878.6
52.5°	17772.8	17801.5	18509.2	19303.2	20569.0	21552.9	19234.2	20626.5	24901.4	25781.7	21639.2
55°	16501.2	16391.9	17847.6	18756.6	21374.5	23146.6	22507.9	23647.2	26748.3	28088.9	23457.3
57.5°	13710.7	13739.5	15085.8	16932.7	20776.1	23779.5	26006.1	27594.1	29337.4	30689.5	26011.9
60°	9464.6	9430.1	10937.5	13072.1	17260.7	22600.0	28019.9	32709.0	32801.1	34717.0	30597.5
62.5°	5322.0	5333.6	6478.5	8302.4	12076.7	18468.9	27922.1	38140.4	37749.1	39429.2	35810.2
65°	3014.9	3089.7	3877.9	4919.3	7232.2	12398.9	24015.4	40303.7	41563.8	43059.7	38974.7
66°	2548.8	2600.6	3273.8	4062.0	5770.8	10057.2	21616.1	39883.7	42760.5	43899.7	38911.4
67.5°	1973.5	2042.5	2606.4	3222.0	4234.6	6961.8	17398.8	37795.2	42979.1	43646.5	37812.4
70°	1352.1	1398.1	1829.6	2445.3	2894.0	3561.5	10402.4	31247.6	38997.7	39561.5	32864.4
72.5°	949.3	972.4	1283.0	1852.6	2226.6	2036.8	5160.9	22231.8	29843.7	30942.7	25563.1
75°	684.7	707.7	880.3	1329.1	1737.6	1334.8	2364.7	14199.8	18302.1	19165.1	15396.5
77.5°	494.8	523.6	598.4	857.3	1260.0	937.8	1162.2	7416.3	8630.3	8480.8	6622.4
80°	299.2	328.0	443.0	552.3	920.6	661.7	638.6	3095.4	3060.9	2905.6	2082.8
82.5°	138.1	161.1	235.9	374.0	644.4	460.3	304.9	1104.7	966.6	886.0	586.9
85°	40.3	51.8	138.1	281.9	328.0	224.4	184.1	379.7	397.0	339.5	195.6
87.5°	0.0	5.8	63.3	69.0	97.8	74.8	69.0	97.8	184.1	149.6	63.3
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°	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1	4643.1
2.5°	4689.2	4648.9	4551.1	4401.5	4269.1	4200.1	4102.3	4016.0	3970.0	3964.2	3958.5
5°	4804.2	4694.9	4459.0	4188.6	3987.2	3768.6	3619.0	3509.7	3406.1	3308.3	3365.8
7.5°	4959.6	4787.0	4401.5	4050.5	3613.2	3331.3	3066.7	2911.3	2819.2	2732.9	2721.4
10°	5201.2	4982.6	4361.2	3728.3	3227.8	2813.5	2543.1	2318.7	2192.1	2042.5	2100.1
12.5°	5529.2	5137.9	4211.6	3434.9	2790.5	2353.2	1967.7	1605.2	1403.9	1248.5	1254.3
15°	5857.1	5345.1	4073.5	3078.2	2393.5	1818.1	1254.3	1006.9	949.3	914.8	926.3
17.5°	6179.3	5511.9	3860.6	2715.7	1939.0	1156.5	914.8	863.0	834.3	799.7	799.7
20°	6570.6	5621.2	3596.0	2382.0	1334.8	857.3	782.5	748.0	701.9	655.9	661.7
22.5°	6950.3	5713.3	3291.0	1956.2	897.6	742.2	655.9	609.9	569.6	523.6	523.6
25°	7330.0	5742.1	2894.0	1403.9	724.9	592.6	512.1	448.8	408.5	368.2	374.0
27.5°	7589.0	5563.7	2520.1	897.6	581.1	448.8	356.7	304.9	270.4	230.1	230.1
30°	7738.5	5235.7	2117.3	632.9	437.3	304.9	212.9	161.1	126.6	97.8	92.1
32.5°	7888.1	4971.1	1662.8	483.3	287.7	161.1	80.5	28.8	0.0	0.0	0.0
35°	8187.3	4671.9	1116.2	270.4	97.8	5.8	0.0	0.0	0.0	0.0	0.0
37.5°	8377.2	4257.6	512.1	40.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	8854.7	4050.5	126.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	9631.5	3906.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	10483.0	3849.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	11616.4	4004.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	12813.2	4424.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	14125.0	4821.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	15270.0	5299.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	17375.8	6426.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	21155.9	8641.9	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	25413.5	10287.4	63.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	26972.7	10247.1	109.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	26696.5	9683.3	109.3	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	25263.9	8601.6	97.8	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	21696.7	7105.7	97.8	17.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	16541.5	5534.9	92.1	23.0	5.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	9982.4	2945.8	74.8	28.8	11.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	3975.7	1035.6	57.5	23.0	11.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	1075.9	310.7	34.5	23.0	17.3	5.8	0.0	0.0	0.0	0.0	0.0
82.5°	281.9	115.1	28.8	23.0	11.5	5.8	0.0	0.0	0.0	0.0	0.0
85°	109.3	46.0	23.0	17.3	17.3	11.5	5.8	0.0	0.0	0.0	0.0
87.5°	34.5	17.3	17.3	11.5	11.5	5.8	5.8	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)