

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: P483527

Luminaire Tested: **IFLD-L-SA7D-727-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483527
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30099.2 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

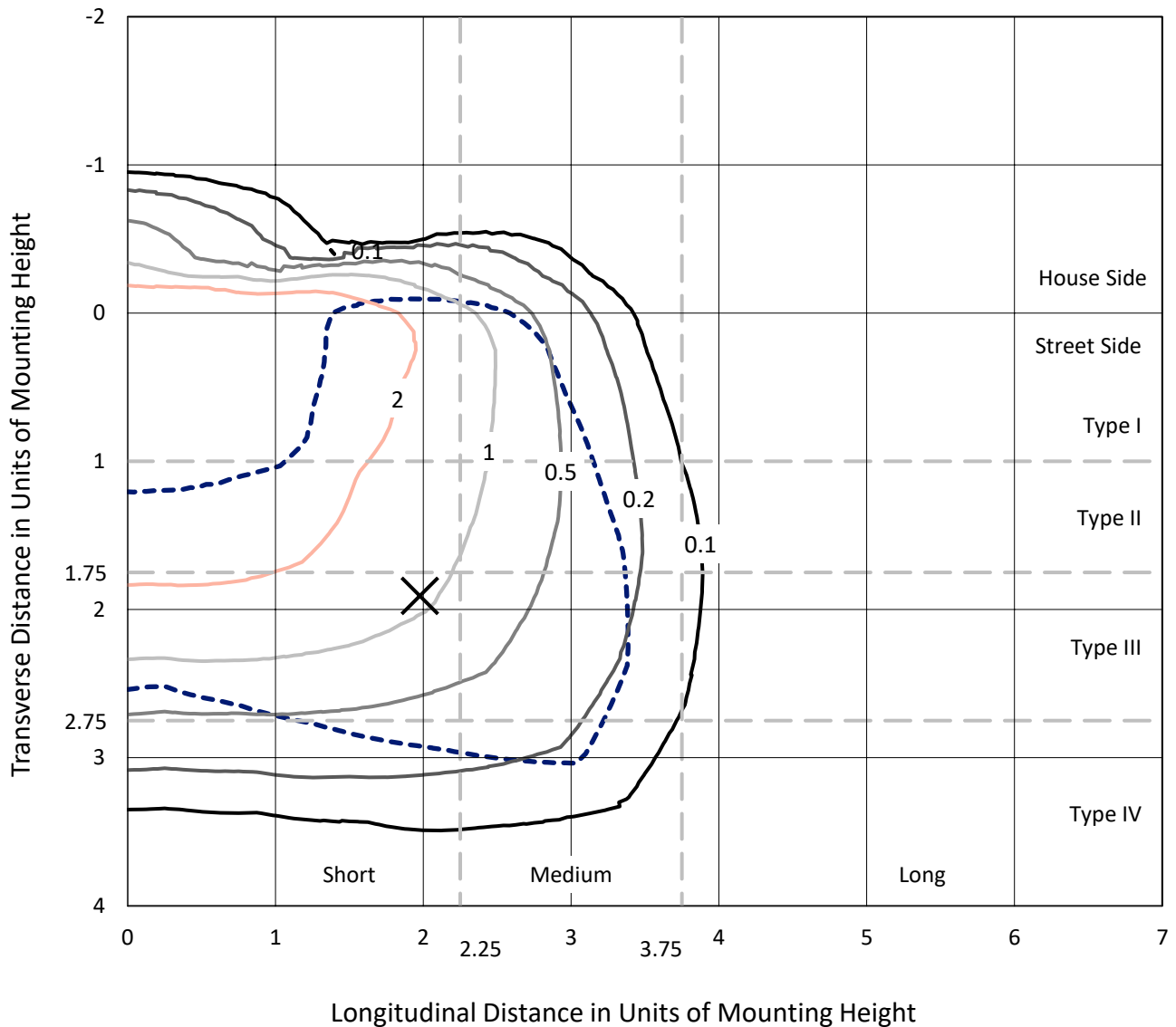
Input Watts (W): 422.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

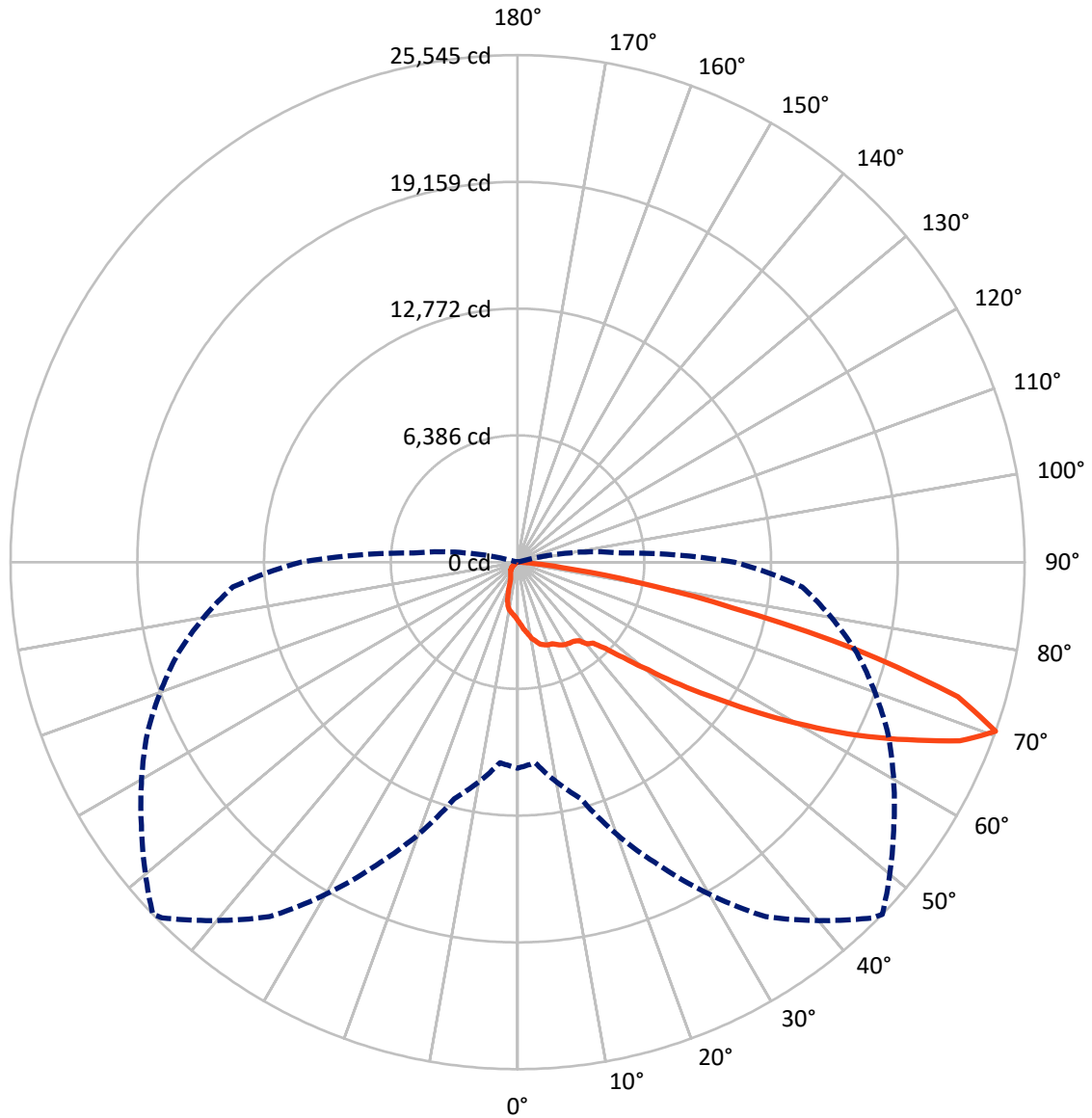
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.8 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	2995.0	0.0	2995.0
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	27104.3	0.0	27104.3
	% Fixture	90.0	0.0	90.0
Total	Lumens	30099.2	0.0	30099.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	1.0
10°-20°	889.7	3.0
20°-30°	1425.2	4.7
30°-40°	2034.3	6.8
40°-50°	3512.6	11.7
50°-60°	6725.2	22.3
60°-70°	9959.0	33.1
70°-80°	4932.6	16.4
80°-90°	325.9	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°	30099.2	100.0
0°-180°	30099.2	100.0

Coefficient of Utilization



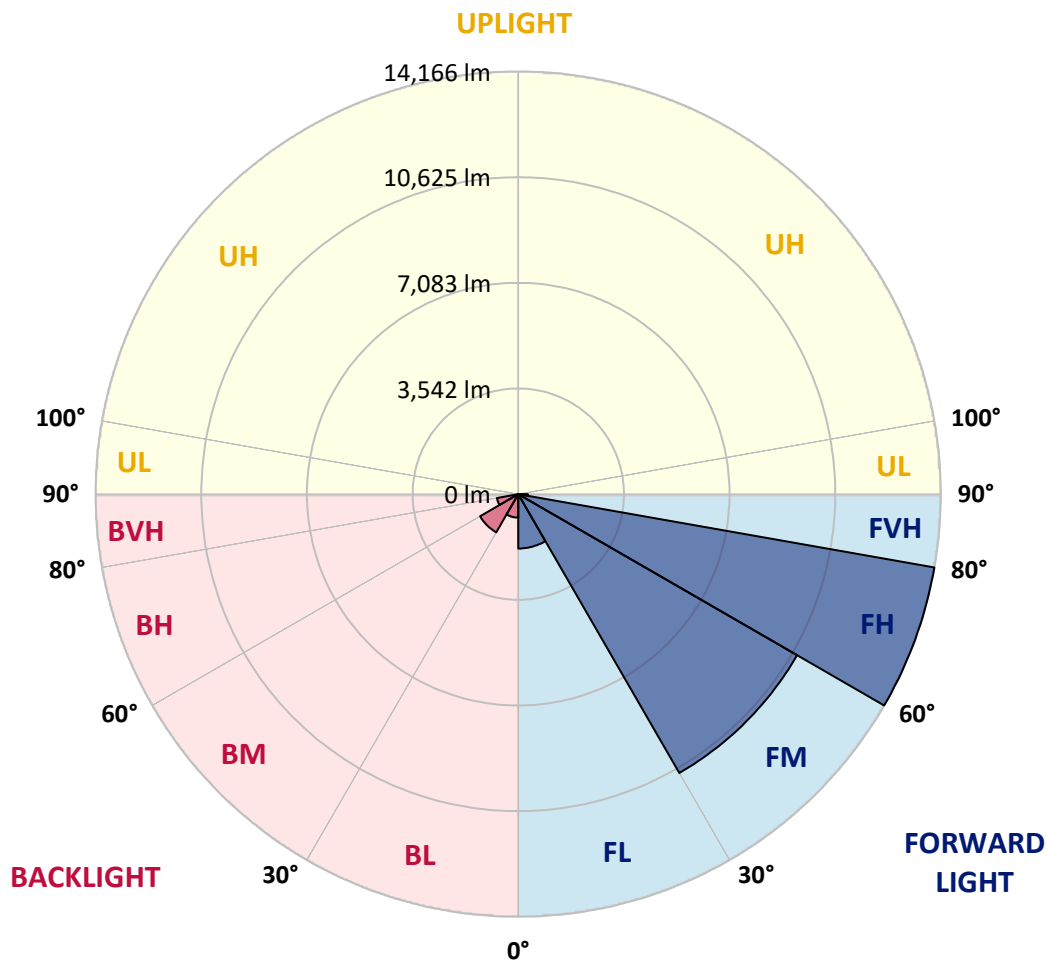
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1822.7	6.1			
FM (30°-60°)	10793.5	35.9			
FH (60°-80°)	14166.2	47.1			G5
FVH (80°-90°)	321.8	1.1			G3/500
BL (0°-30°)	786.8	2.6	B2/1000		
BM (30°-60°)	1478.6	4.9	B2/2500		
BH (60°-80°)	725.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	4.1	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°	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8
2.5°	3297.1	3275.4	3240.8	3227.8	3193.1	3175.8	3149.8	3136.8	3089.1	3041.5	3011.1
5°	3700.0	3648.0	3665.3	3613.4	3500.7	3409.7	3405.4	3305.7	3197.4	3110.8	2993.8
7.5°	4107.3	4063.9	3999.0	3925.3	3799.7	3665.3	3626.4	3531.0	3379.4	3227.8	3071.8
10°	4414.9	4384.6	4328.2	4224.2	4050.9	3899.3	3903.6	3743.3	3583.0	3409.7	3197.4
12.5°	4605.5	4618.5	4536.2	4432.2	4280.6	4089.9	4085.6	3977.3	3795.3	3613.4	3362.1
15°	4796.1	4843.8	4718.2	4596.8	4401.9	4263.2	4289.2	4159.3	3981.6	3773.7	3496.4
17.5°	4826.5	4839.5	4813.5	4635.8	4492.9	4375.9	4380.2	4293.6	4159.3	3934.0	3695.7
20°	4774.5	4765.8	4735.5	4605.5	4510.2	4440.9	4445.2	4423.5	4349.9	4167.9	3843.0
22.5°	4622.8	4622.8	4583.8	4497.2	4453.9	4518.9	4466.9	4549.2	4471.2	4362.9	4094.3
25°	4501.5	4549.2	4527.5	4471.2	4488.5	4575.2	4601.2	4679.2	4666.2	4531.9	4267.6
27.5°	4631.5	4575.2	4588.2	4523.2	4588.2	4718.2	4731.2	4787.5	4783.1	4674.8	4423.5
30°	4718.2	4770.1	4670.5	4527.5	4596.8	4817.8	4809.1	4882.8	4917.5	4787.5	4570.9
32.5°	4995.4	4952.1	4869.8	4679.2	4687.8	4813.5	4852.5	4947.8	4969.4	4891.5	4713.8
35°	5563.0	5498.0	5138.4	4852.5	4809.1	4869.8	4895.8	5082.1	5121.1	5034.4	4865.5
37.5°	6438.2	6290.9	5857.6	5225.1	5030.1	5017.1	5017.1	5264.1	5411.4	5212.1	5090.8
40°	7690.3	7482.3	7014.4	5913.9	5320.4	5372.4	5424.4	5558.7	5541.3	5411.4	5385.4
42.5°	9284.7	9124.4	8617.5	7070.7	5875.0	5615.0	5571.7	5753.6	6026.6	5974.6	5957.3
45°	10614.8	10623.4	10298.5	8656.5	6832.4	6173.9	6204.2	6342.9	6802.1	6763.1	6758.8
47.5°	11585.3	11464.0	11416.3	10185.8	8227.5	7235.4	7192.1	7287.4	7885.3	8132.2	8244.9
50°	12469.1	12386.8	12274.1	11671.9	9904.2	8565.5	8522.1	8530.8	9445.0	9791.6	10068.9
52.5°	13565.2	13669.2	13296.6	12928.4	12074.8	10294.2	10246.5	10077.5	11212.7	11689.2	12018.5
55°	14917.0	14722.0	14301.8	14492.4	14150.1	12161.5	12074.8	11875.5	13227.3	13426.6	13773.2
57.5°	15216.0	15068.6	15501.9	16177.8	16507.1	14353.8	14319.1	13959.5	14921.3	14739.4	15718.5
60°	15961.2	16000.1	16602.4	17945.5	18517.4	16884.0	16715.0	16082.5	16563.4	16598.0	17642.2
62.5°	16728.0	16637.0	17984.5	19275.6	20155.1	19279.9	19223.6	17967.1	18513.0	18071.1	19453.2
65°	16164.8	16303.4	18231.4	20393.4	22278.0	21623.8	21576.2	19782.5	20081.4	19531.2	20189.7
67.5°	14163.1	13881.5	16580.7	19882.1	23369.8	24080.4	24028.4	21762.5	20965.3	19522.5	18660.3
70°	10380.8	10138.2	12339.1	16836.3	21805.8	25336.8	25544.8	23140.2	20605.7	17702.8	14397.1
72.5°	5086.4	5090.8	6914.8	11416.3	17252.3	23092.5	23196.5	21216.5	17702.8	13049.7	8153.9
75°	1503.4	1520.7	2560.5	5597.7	11152.0	17538.2	17655.2	16104.1	12269.8	6741.5	2781.5
77.5°	550.2	550.2	849.2	2101.3	5563.0	11069.7	11061.0	9886.9	6212.9	2283.3	649.9
80°	285.9	298.9	441.9	857.8	2408.9	5766.6	5983.3	4839.5	2361.2	961.8	190.6
82.5°	117.0	130.0	242.6	441.9	1156.8	2023.3	2213.9	1897.7	1026.8	671.5	86.7
85°	34.7	39.0	117.0	247.0	454.9	506.9	563.2	636.9	645.6	519.9	39.0
87.5°	4.3	4.3	47.7	82.3	99.6	108.3	125.6	125.6	329.3	363.9	21.7
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°	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8	2954.8
2.5°	2976.5	2954.8	2920.1	2842.2	2824.8	2768.5	2764.2	2712.2	2729.5	2694.9	2681.9
5°	2954.8	2907.1	2811.8	2751.2	2690.5	2651.5	2625.5	2603.9	2599.5	2582.2	2573.5
7.5°	2993.8	2928.8	2781.5	2686.2	2582.2	2547.5	2491.2	2486.9	2456.6	2426.2	2426.2
10°	3123.8	3006.8	2846.5	2686.2	2551.9	2439.2	2309.3	2213.9	2179.3	2101.3	2110.0
12.5°	3227.8	3123.8	2889.8	2725.2	2521.6	2265.9	1980.0	1759.0	1655.0	1555.4	1594.4
15°	3375.1	3223.4	2972.1	2733.8	2404.6	1962.6	1494.7	1247.8	1152.5	1130.8	1126.5
17.5°	3535.4	3375.1	3076.1	2712.2	2166.3	1516.4	1100.5	957.5	974.8	1000.8	996.5
20°	3713.0	3518.0	3154.1	2638.5	1789.3	1100.5	901.2	896.8	922.8	961.8	970.5
22.5°	3899.3	3730.3	3249.4	2417.6	1334.4	883.8	866.5	866.5	883.8	931.5	922.8
25°	4107.3	3882.0	3297.1	2075.3	957.5	814.5	823.2	840.5	849.2	888.2	892.5
27.5°	4267.6	4050.9	3310.1	1663.7	779.9	753.9	775.5	797.2	810.2	840.5	853.5
30°	4414.9	4263.2	3240.8	1239.1	714.9	701.9	710.5	740.9	766.9	792.9	792.9
32.5°	4601.2	4384.6	3080.5	879.5	675.9	654.2	649.9	662.9	693.2	723.5	723.5
35°	4791.8	4588.2	2824.8	706.2	641.2	610.9	593.6	580.6	593.6	615.2	632.6
37.5°	5069.1	4895.8	2504.2	649.9	615.2	571.9	537.2	506.9	485.2	480.9	493.9
40°	5463.4	5242.4	2092.6	610.9	584.9	532.9	480.9	428.9	381.3	350.9	355.3
42.5°	6061.3	5753.6	1646.4	589.2	563.2	489.6	415.9	342.3	281.6	251.3	251.3
45°	6914.8	6429.5	1208.8	567.6	537.2	437.6	342.3	255.6	195.0	177.6	182.0
47.5°	8201.5	7244.0	866.5	532.9	502.6	381.3	268.6	182.0	143.0	134.3	138.6
50°	9882.6	8210.2	675.9	493.9	459.3	320.6	199.3	134.3	112.6	108.3	112.6
52.5°	11645.9	9185.0	593.6	459.3	394.3	255.6	147.3	108.3	95.3	91.0	95.3
55°	13153.7	9813.2	515.6	407.3	316.3	190.6	117.0	95.3	82.3	69.3	69.3
57.5°	14678.7	10129.5	407.3	337.9	234.0	143.0	99.6	82.3	69.3	56.3	52.0
60°	15917.8	10354.8	290.3	251.3	164.6	112.6	86.7	73.7	56.3	43.3	39.0
62.5°	16732.3	9709.3	212.3	190.6	121.3	95.3	73.7	60.7	43.3	30.3	30.3
65°	16329.4	8816.8	164.6	134.3	91.0	73.7	60.7	43.3	30.3	17.3	13.0
67.5°	14652.7	7183.4	134.3	99.6	69.3	56.3	47.7	34.7	17.3	4.3	4.3
70°	10931.1	5264.1	108.3	73.7	56.3	43.3	34.7	21.7	8.7	4.3	0.0
72.5°	5978.9	2881.2	86.7	60.7	43.3	34.7	26.0	17.3	8.7	0.0	0.0
75°	1975.6	766.9	65.0	43.3	26.0	21.7	17.3	13.0	4.3	0.0	0.0
77.5°	476.6	199.3	52.0	39.0	21.7	13.0	8.7	4.3	4.3	0.0	0.0
80°	147.3	82.3	39.0	26.0	17.3	13.0	4.3	0.0	0.0	0.0	0.0
82.5°	60.7	39.0	17.3	17.3	13.0	4.3	0.0	0.0	0.0	0.0	0.0
85°	30.3	21.7	13.0	8.7	8.7	4.3	0.0	0.0	0.0	0.0	0.0
87.5°	21.7	8.7	4.3	4.3	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)