

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: P483488

Luminaire Tested: **IFLD-L-SA7D-722-U-T4W-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483488
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-T4W-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

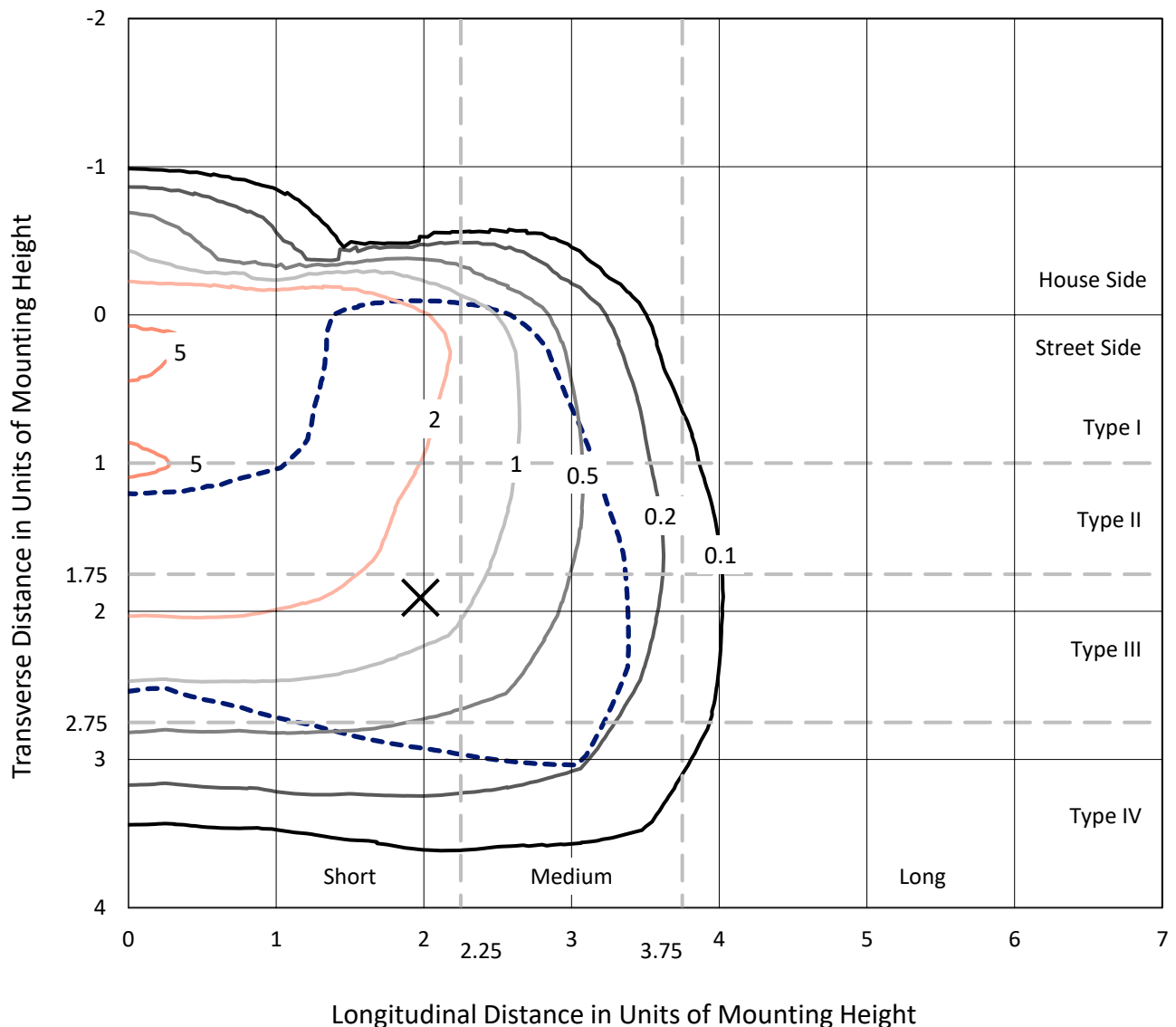
Lumens per Lamp: N/A
Luminaire Lumens: 26510.9 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

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

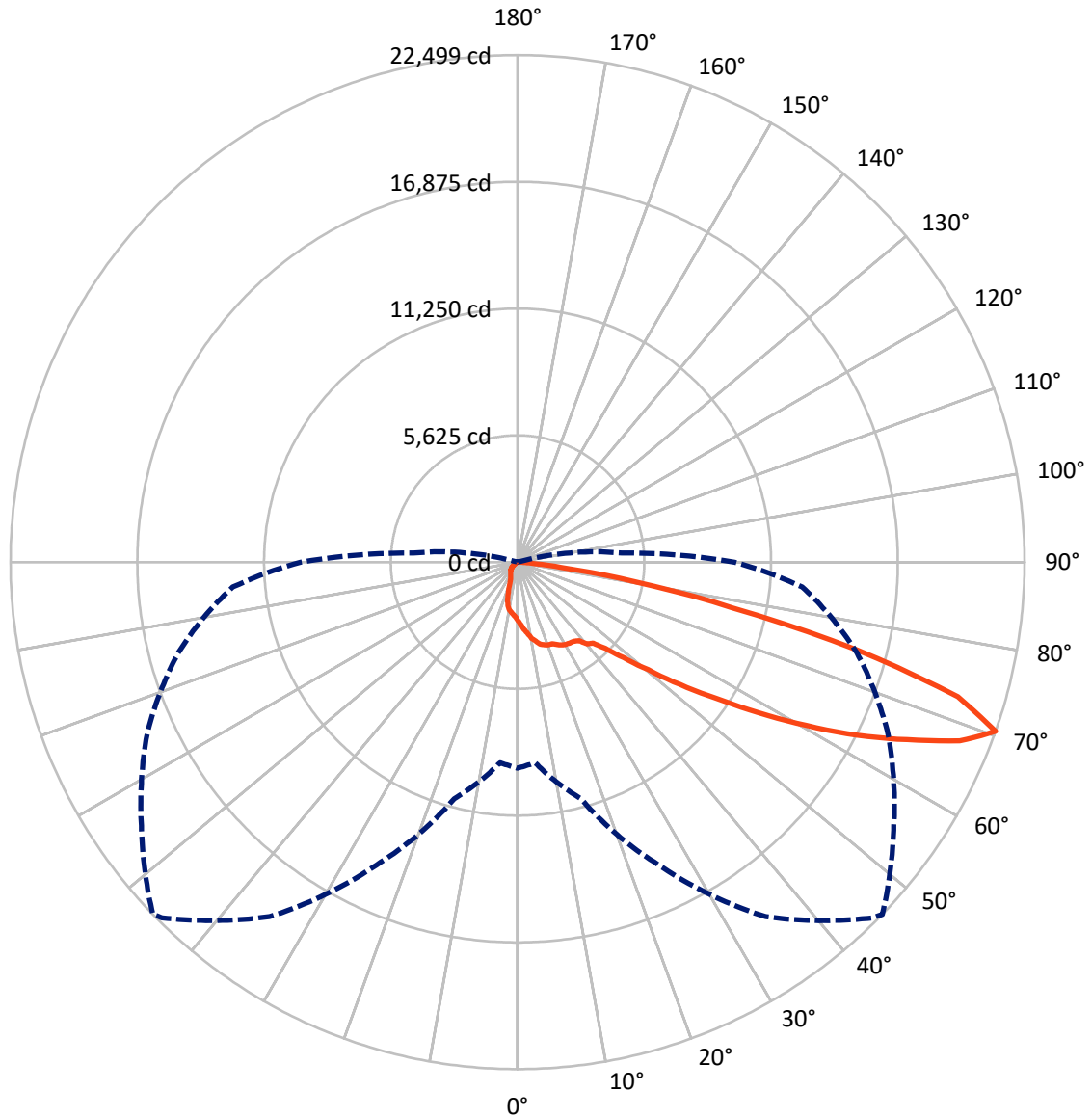
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	2637.9	0.0	2637.9
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	23873.0	0.0	23873.0
	% Fixture	90.0	0.0	90.0
Total	Lumens	26510.9	0.0	26510.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.5	1.0
10°-20°	783.7	3.0
20°-30°	1255.3	4.7
30°-40°	1791.7	6.8
40°-50°	3093.9	11.7
50°-60°	5923.5	22.3
60°-70°	8771.7	33.1
70°-80°	4344.5	16.4
80°-90°	287.1	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°	26510.9	100.0
0°-180°	26510.9	100.0

Coefficient of Utilization

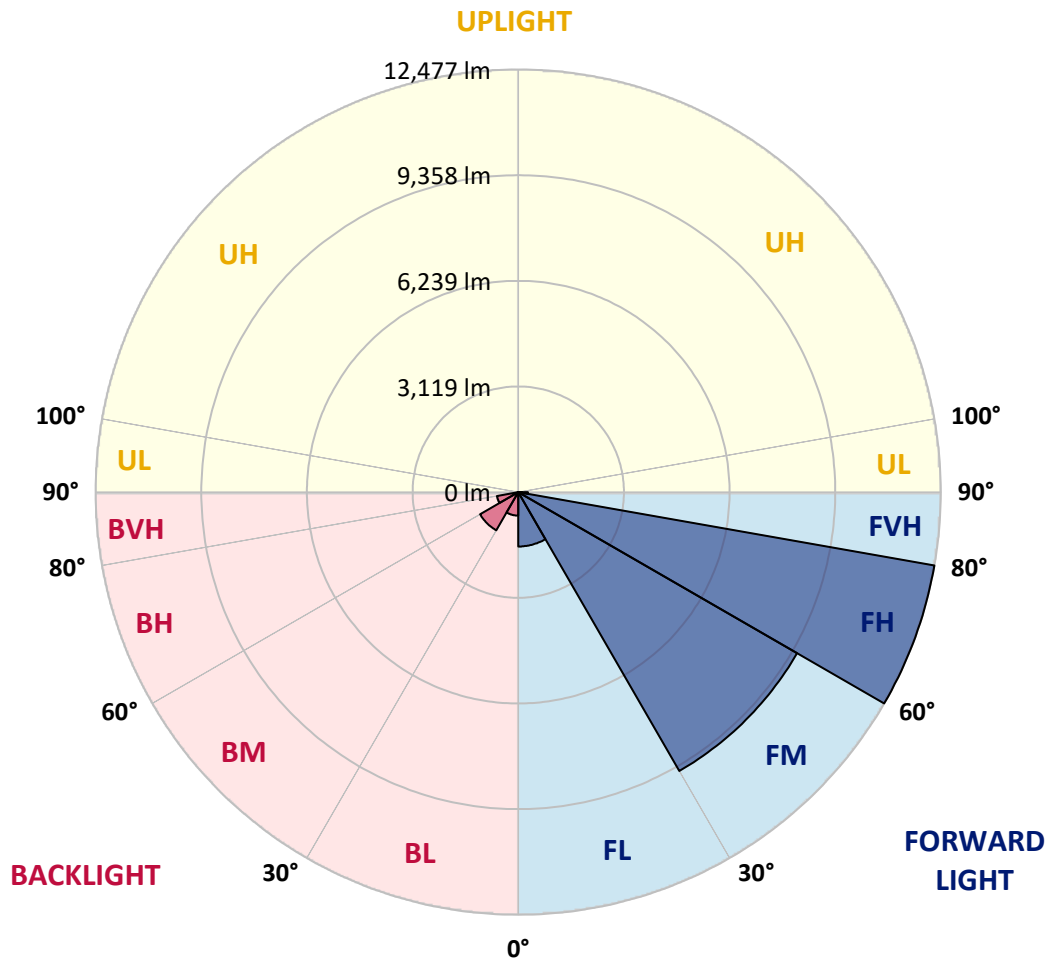


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1605.4	6.1			
FM (30°-60°)	9506.8	35.9			
FH (60°-80°)	12477.4	47.1			G5
FVH (80°-90°)	283.4	1.1			G3/500
BL (0°-30°)	693.0	2.6	B2/1000		
BM (30°-60°)	1302.3	4.9	B2/2500		
BH (60°-80°)	638.9	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°	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5
2.5°	2904.0	2884.9	2854.4	2843.0	2812.4	2797.2	2774.3	2762.8	2720.8	2678.9	2652.2
5°	3258.9	3213.1	3228.4	3182.6	3083.4	3003.2	2999.4	2911.6	2816.2	2739.9	2636.9
7.5°	3617.6	3579.5	3522.2	3457.3	3346.7	3228.4	3194.0	3110.1	2976.5	2843.0	2705.6
10°	3888.6	3861.8	3812.2	3720.7	3568.0	3434.4	3438.3	3297.1	3155.9	3003.2	2816.2
12.5°	4056.5	4067.9	3995.4	3903.8	3770.3	3602.4	3598.5	3503.1	3342.9	3182.6	2961.3
15°	4224.4	4266.3	4155.7	4048.8	3877.1	3755.0	3777.9	3663.4	3507.0	3323.8	3079.6
17.5°	4251.1	4262.5	4239.6	4083.2	3957.2	3854.2	3858.0	3781.7	3663.4	3465.0	3255.1
20°	4205.3	4197.7	4170.9	4056.5	3972.5	3911.5	3915.3	3896.2	3831.3	3671.0	3384.8
22.5°	4071.7	4071.7	4037.4	3961.1	3922.9	3980.1	3934.3	4006.9	3938.2	3842.8	3606.2
25°	3964.9	4006.9	3987.8	3938.2	3953.4	4029.8	4052.6	4121.3	4109.9	3991.6	3758.8
27.5°	4079.4	4029.8	4041.2	3984.0	4041.2	4155.7	4167.1	4216.7	4212.9	4117.5	3896.2
30°	4155.7	4201.5	4113.7	3987.8	4048.8	4243.4	4235.8	4300.7	4331.2	4216.7	4025.9
32.5°	4399.9	4361.7	4289.2	4121.3	4129.0	4239.6	4274.0	4357.9	4377.0	4308.3	4151.9
35°	4899.8	4842.6	4525.8	4274.0	4235.8	4289.2	4312.1	4476.2	4510.6	4434.3	4285.4
37.5°	5670.7	5540.9	5159.3	4602.2	4430.4	4419.0	4419.0	4636.5	4766.2	4590.7	4483.9
40°	6773.5	6590.3	6178.2	5208.9	4686.1	4731.9	4777.7	4896.0	4880.7	4766.2	4743.4
42.5°	8177.8	8036.6	7590.1	6227.8	5174.6	4945.6	4907.4	5067.7	5308.1	5262.3	5247.1
45°	9349.3	9357.0	9070.8	7624.5	6017.9	5437.9	5464.6	5586.7	5991.2	5956.9	5953.0
47.5°	10204.1	10097.3	10055.3	8971.5	7246.7	6372.8	6334.6	6418.6	6945.2	7162.7	7261.9
50°	10982.6	10910.1	10810.9	10280.4	8723.5	7544.3	7506.2	7513.8	8319.0	8624.3	8868.5
52.5°	11948.1	12039.6	11711.5	11387.1	10635.3	9066.9	9025.0	8876.1	9875.9	10295.7	10585.7
55°	13138.7	12966.9	12596.8	12764.7	12463.2	10711.7	10635.3	10459.8	11650.4	11825.9	12131.2
57.5°	13402.0	13272.2	13653.8	14249.1	14539.2	12642.6	12612.1	12295.3	13142.5	12982.2	13844.6
60°	14058.3	14092.7	14623.1	15806.1	16309.8	14871.2	14722.3	14165.2	14588.8	14619.3	15539.0
62.5°	14733.8	14653.6	15840.4	16977.6	17752.3	16981.4	16931.8	15825.2	16306.0	15916.8	17134.1
65°	14237.7	14359.8	16057.9	17962.2	19622.1	19045.9	19003.9	17424.1	17687.4	17202.8	17782.8
67.5°	12474.7	12226.6	14604.0	17511.9	20583.8	21209.6	21163.8	19168.0	18465.9	17195.1	16435.7
70°	9143.3	8929.6	10868.1	14829.2	19206.2	22316.3	22499.4	20381.5	18149.1	15592.4	12680.7
72.5°	4480.0	4483.9	6090.4	10055.3	15195.5	20339.6	20431.1	18687.2	15592.4	11493.9	7181.8
75°	1324.2	1339.4	2255.3	4930.3	9822.5	15447.4	15550.4	14184.3	10807.1	5937.8	2449.9
77.5°	484.6	484.6	747.9	1850.8	4899.8	9750.0	9742.4	8708.2	5472.2	2011.1	572.4
80°	251.9	263.3	389.2	755.6	2121.7	5079.2	5270.0	4262.5	2079.7	847.2	167.9
82.5°	103.0	114.5	213.7	389.2	1018.9	1782.1	1950.0	1671.4	904.4	591.5	76.3
85°	30.5	34.3	103.0	217.5	400.7	446.5	496.1	561.0	568.6	457.9	34.3
87.5°	3.8	3.8	42.0	72.5	87.8	95.4	110.7	110.7	290.0	320.5	19.1
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°	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5	2602.5
2.5°	2621.6	2602.5	2572.0	2503.3	2488.1	2438.5	2434.6	2388.8	2404.1	2373.6	2362.1
5°	2602.5	2560.6	2476.6	2423.2	2369.8	2335.4	2312.5	2293.4	2289.6	2274.4	2266.7
7.5°	2636.9	2579.7	2449.9	2366.0	2274.4	2243.8	2194.2	2190.4	2163.7	2137.0	2137.0
10°	2751.4	2648.3	2507.1	2366.0	2247.7	2148.4	2034.0	1950.0	1919.5	1850.8	1858.4
12.5°	2843.0	2751.4	2545.3	2400.3	2220.9	1995.8	1743.9	1549.3	1457.7	1370.0	1404.3
15°	2972.7	2839.1	2617.8	2407.9	2117.9	1728.7	1316.5	1099.0	1015.1	996.0	992.2
17.5°	3113.9	2972.7	2709.4	2388.8	1908.0	1335.6	969.3	843.3	858.6	881.5	877.7
20°	3270.4	3098.6	2778.1	2324.0	1576.0	969.3	793.7	789.9	812.8	847.2	854.8
22.5°	3434.4	3285.6	2862.0	2129.4	1175.3	778.5	763.2	763.2	778.5	820.5	812.8
25°	3617.6	3419.2	2904.0	1827.9	843.3	717.4	725.0	740.3	747.9	782.3	786.1
27.5°	3758.8	3568.0	2915.5	1465.4	686.9	664.0	683.1	702.2	713.6	740.3	751.8
30°	3888.6	3755.0	2854.4	1091.4	629.6	618.2	625.8	652.5	675.4	698.3	698.3
32.5°	4052.6	3861.8	2713.2	774.7	595.3	576.2	572.4	583.9	610.6	637.3	637.3
35°	4220.6	4041.2	2488.1	622.0	564.8	538.1	522.8	511.4	522.8	541.9	557.1
37.5°	4464.8	4312.1	2205.7	572.4	541.9	503.7	473.2	446.5	427.4	423.6	435.0
40°	4812.0	4617.4	1843.2	538.1	515.2	469.4	423.6	377.8	335.8	309.1	312.9
42.5°	5338.7	5067.7	1450.1	519.0	496.1	431.2	366.3	301.5	248.0	221.3	221.3
45°	6090.4	5663.0	1064.7	499.9	473.2	385.4	301.5	225.1	171.7	156.5	160.3
47.5°	7223.8	6380.4	763.2	469.4	442.7	335.8	236.6	160.3	125.9	118.3	122.1
50°	8704.4	7231.4	595.3	435.0	404.5	282.4	175.5	118.3	99.2	95.4	99.2
52.5°	10257.5	8090.0	522.8	404.5	347.3	225.1	129.7	95.4	84.0	80.1	84.0
55°	11585.5	8643.4	454.1	358.7	278.6	167.9	103.0	84.0	72.5	61.1	61.1
57.5°	12928.8	8921.9	358.7	297.7	206.1	125.9	87.8	72.5	61.1	49.6	45.8
60°	14020.2	9120.4	255.7	221.3	145.0	99.2	76.3	64.9	49.6	38.2	34.3
62.5°	14737.6	8551.8	187.0	167.9	106.8	84.0	64.9	53.4	38.2	26.7	26.7
65°	14382.7	7765.7	145.0	118.3	80.1	64.9	53.4	38.2	26.7	15.3	11.4
67.5°	12905.9	6327.0	118.3	87.8	61.1	49.6	42.0	30.5	15.3	3.8	3.8
70°	9627.9	4636.5	95.4	64.9	49.6	38.2	30.5	19.1	7.6	3.8	0.0
72.5°	5266.2	2537.7	76.3	53.4	38.2	30.5	22.9	15.3	7.6	0.0	0.0
75°	1740.1	675.4	57.2	38.2	22.9	19.1	15.3	11.4	3.8	0.0	0.0
77.5°	419.8	175.5	45.8	34.3	19.1	11.4	7.6	3.8	3.8	0.0	0.0
80°	129.7	72.5	34.3	22.9	15.3	11.4	3.8	0.0	0.0	0.0	0.0
82.5°	53.4	34.3	15.3	15.3	11.4	3.8	0.0	0.0	0.0	0.0	0.0
85°	26.7	19.1	11.4	7.6	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	19.1	7.6	3.8	3.8	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)