

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: P482355

Luminaire Tested: **IFLD-L-SA7B-727-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482355
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-727-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

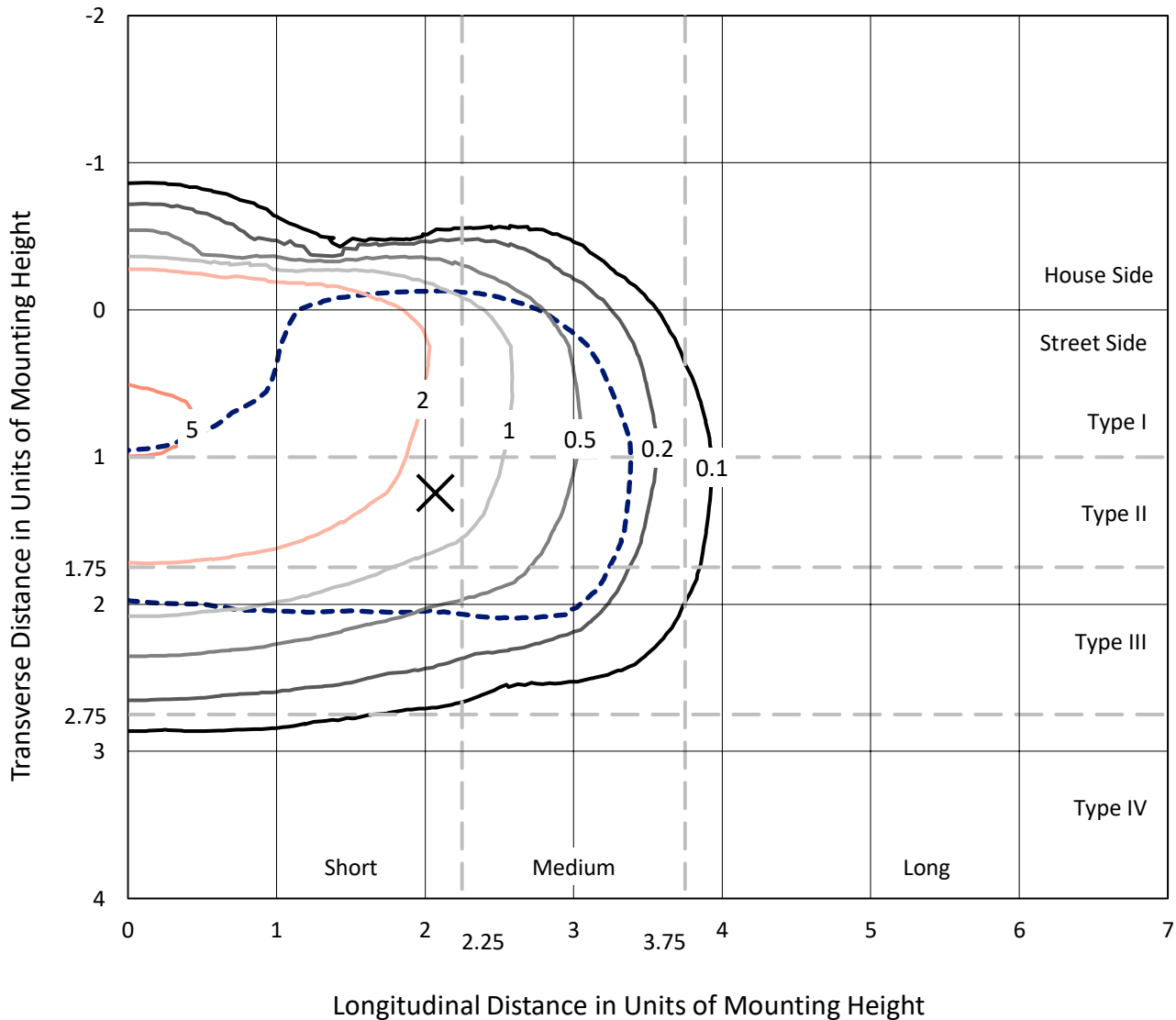
Lumens per Lamp: N/A
Luminaire Lumens: 22099.3 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 281
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

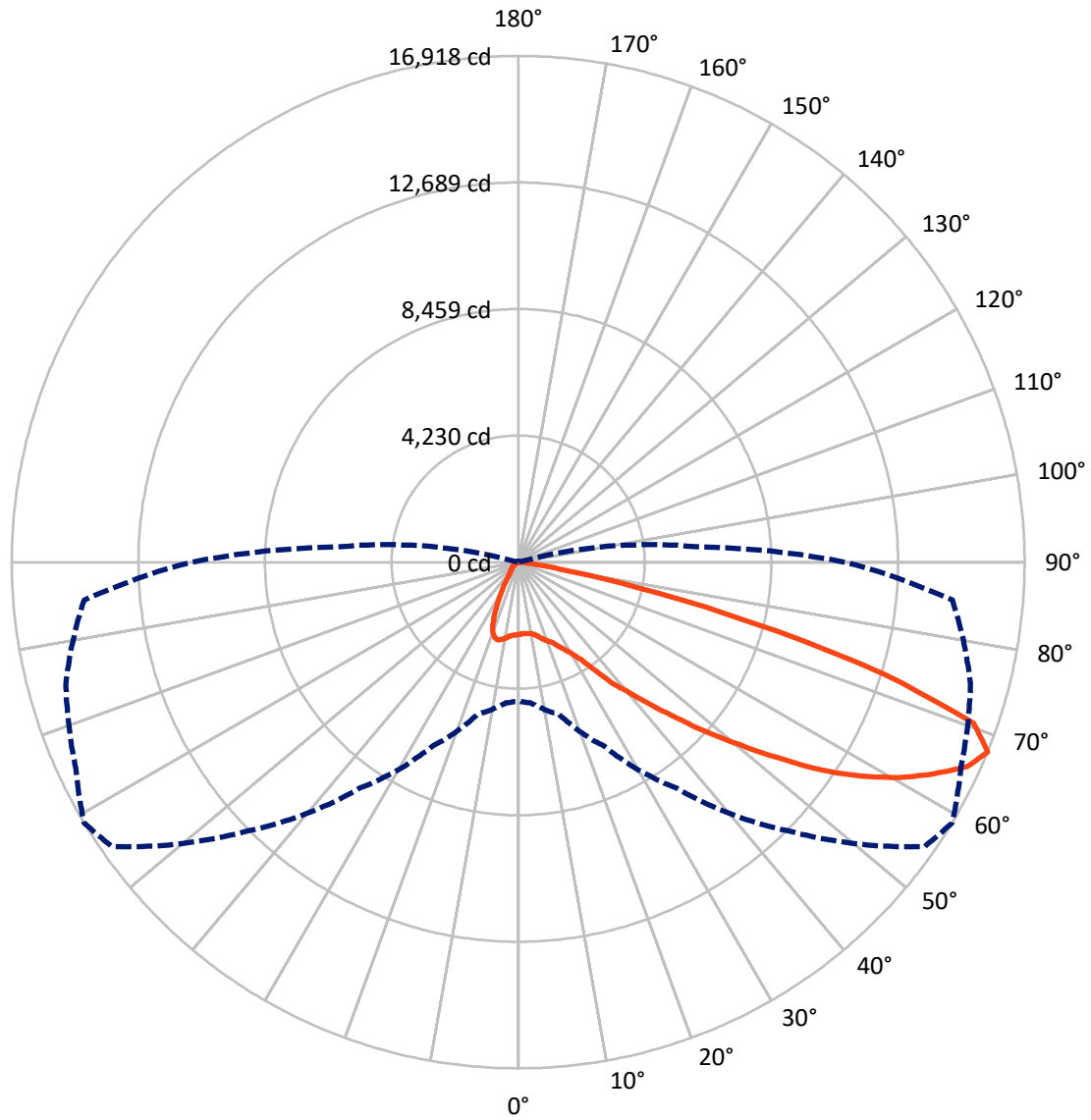
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2595.9	0.0	2595.9
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	19503.3	0.0	19503.3
	% Fixture	88.3	0.0	88.3
Total	Lumens	22099.3	0.0	22099.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	1.0
10°-20°	665.1	3.0
20°-30°	1162.4	5.3
30°-40°	2046.5	9.3
40°-50°	3617.6	16.4
50°-60°	5728.0	25.9
60°-70°	6353.9	28.8
70°-80°	2204.7	10.0
80°-90°	90.8	0.4
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°	22099.3	100.0
0°-180°	22099.3	100.0

Coefficient of Utilization

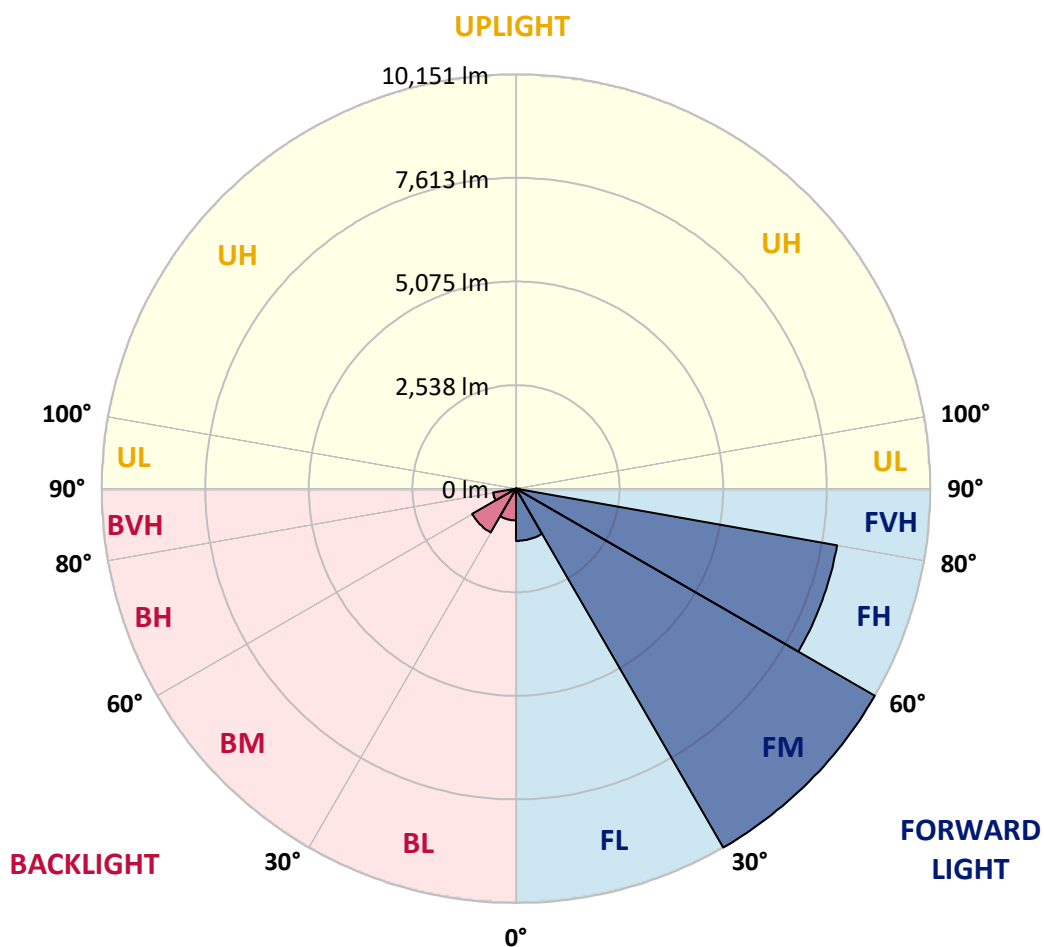


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1279.7	5.8			
FM (30°-60°)	10151.0	45.9			
FH (60°-80°)	7987.7	36.1			G4/12000
FVH (80°-90°)	84.9	0.4			G1/100
BL (0°-30°)	778.0	3.5	B2/1000		
BM (30°-60°)	1241.1	5.6	B2/2500		
BH (60°-80°)	570.9	2.6	B2/1000		G2/1000
BVH (80°-90°)	5.9	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9
2.5°	2353.7	2320.1	2350.6	2353.7	2356.7	2384.2	2414.7	2393.4	2390.3	2414.7	2436.1
5°	2259.0	2243.8	2280.4	2298.7	2329.3	2353.7	2402.5	2405.6	2408.6	2436.1	2472.7
7.5°	2219.4	2182.7	2225.5	2246.8	2268.2	2326.2	2384.2	2414.7	2457.5	2491.1	2527.7
10°	2140.0	2167.5	2179.7	2216.3	2277.4	2344.5	2414.7	2430.0	2524.6	2552.1	2640.6
12.5°	2167.5	2185.8	2210.2	2219.4	2286.5	2387.3	2481.9	2488.0	2585.7	2704.7	2750.5
15°	2237.7	2225.5	2234.6	2246.8	2326.2	2408.6	2561.3	2588.7	2680.3	2814.6	2927.6
17.5°	2387.3	2365.9	2350.6	2347.6	2365.9	2442.2	2622.3	2704.7	2790.2	2973.4	3031.4
20°	2762.7	2744.4	2683.4	2524.6	2469.7	2500.2	2695.6	2811.6	2930.6	3135.2	3229.8
22.5°	3333.6	3351.9	3208.4	2985.6	2756.6	2637.6	2811.6	2912.3	3101.6	3361.1	3446.6
25°	4008.3	3971.6	3797.6	3538.1	3177.9	2897.1	2997.8	3110.8	3342.8	3556.5	3590.0
27.5°	4536.4	4493.7	4359.3	4044.9	3733.5	3278.7	3242.0	3312.2	3587.0	3779.3	3742.7
30°	5058.4	5073.7	4982.1	4609.7	4225.0	3745.7	3513.7	3544.3	3754.9	4002.2	3919.7
32.5°	5723.9	5687.3	5635.4	5308.7	4853.9	4341.0	3944.2	3895.3	3986.9	4313.5	4215.9
35°	6343.6	6322.3	6252.1	5922.4	5525.5	4966.8	4579.1	4469.2	4447.9	4811.1	4640.2
37.5°	6884.0	6847.3	6740.5	6529.9	6145.2	5675.1	5250.7	5153.1	5150.0	5400.3	5070.6
40°	7338.8	7366.3	7354.1	7122.1	6911.4	6536.0	5885.7	5730.0	5717.8	5852.1	5659.8
42.5°	7928.0	7992.1	7958.5	7912.8	7659.4	7512.8	6777.1	6539.0	6432.2	6706.9	6532.9
45°	8819.4	8843.8	8865.2	8752.3	8498.9	8529.4	7699.1	7415.2	7387.7	7796.7	7406.0
47.5°	9652.8	9588.7	9738.3	9744.4	9732.2	9591.8	8694.3	8483.6	8520.3	8831.6	8428.7
50°	9860.4	10025.3	10437.4	10513.7	10712.1	10840.3	9799.4	9588.7	9649.8	10003.9	9542.9
52.5°	10022.2	10272.5	10684.7	11243.3	11777.5	12082.8	11035.7	10864.8	10861.7	11078.5	10443.5
55°	10306.1	10458.8	10815.9	11585.2	12601.8	13102.4	12525.5	12250.7	12003.4	12156.1	11377.6
57.5°	10278.6	10336.6	10892.2	11841.7	13255.1	14164.8	13749.6	13487.1	13169.6	13081.1	12452.2
60°	9796.3	9933.7	10556.4	11667.6	13658.0	14992.1	14891.4	14622.7	14076.3	13868.7	13276.4
62.5°	8840.8	9024.0	9512.4	11057.1	13071.9	15034.8	15679.0	15578.2	14967.7	14595.2	14351.0
65°	7164.8	7250.3	7812.0	9506.3	11747.0	14378.5	16610.1	16484.9	15923.2	15367.6	14903.6
67.5°	4640.2	4722.6	5263.0	6786.3	9225.4	12684.2	16573.4	16918.4	16310.9	15642.3	14558.6
70°	2191.9	2170.5	2674.2	3770.2	5910.1	9686.4	15453.1	16133.8	15617.9	14180.1	12092.0
72.5°	668.6	726.6	1111.2	1669.9	3034.4	6041.4	12113.3	12751.4	12589.6	11328.8	8071.5
75°	296.1	320.5	436.5	683.8	1230.3	2478.8	7482.3	8050.1	7979.9	6682.5	3684.7
77.5°	189.3	207.6	274.7	390.8	558.7	787.6	3446.6	3999.1	3877.0	2347.6	964.7
80°	134.3	143.5	195.4	268.6	351.1	323.6	1187.5	1410.4	1352.4	638.0	259.5
82.5°	73.3	79.4	143.5	198.4	235.1	164.8	332.8	415.2	433.5	283.9	125.2
85°	27.5	33.6	88.5	140.4	122.1	76.3	97.7	119.1	155.7	155.7	58.0
87.5°	0.0	3.1	36.6	61.1	30.5	21.4	27.5	33.6	42.7	73.3	21.4
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°	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9	2423.9
2.5°	2451.4	2430.0	2439.2	2454.4	2420.8	2439.2	2402.5	2430.0	2439.2	2402.5	2420.8
5°	2481.9	2503.3	2491.1	2466.6	2445.3	2451.4	2442.2	2420.8	2439.2	2445.3	2433.0
7.5°	2570.4	2546.0	2552.1	2524.6	2481.9	2478.8	2420.8	2405.6	2411.7	2417.8	2396.4
10°	2652.8	2668.1	2637.6	2616.2	2546.0	2500.2	2420.8	2335.4	2326.2	2289.6	2320.1
12.5°	2799.4	2762.7	2750.5	2680.3	2610.1	2457.5	2286.5	2155.2	2045.3	2005.7	1966.0
15°	2921.5	2915.4	2894.0	2787.2	2625.4	2347.6	2024.0	1718.7	1508.1	1376.8	1358.5
17.5°	3089.4	3061.9	3022.2	2854.3	2512.4	2060.6	1508.1	1123.4	912.8	830.4	799.8
20°	3217.6	3196.2	3141.3	2839.1	2307.9	1535.5	934.1	714.3	662.4	647.2	650.2
22.5°	3403.8	3336.7	3232.9	2762.7	1935.4	1022.7	671.6	638.0	628.9	616.7	619.7
25°	3565.6	3504.6	3287.8	2631.5	1379.8	677.7	622.8	604.4	589.2	573.9	570.9
27.5°	3709.1	3632.8	3345.8	2362.8	863.9	583.1	577.0	555.6	525.1	500.7	491.5
30°	3849.5	3761.0	3361.1	1859.1	583.1	528.1	512.9	479.3	439.6	406.0	399.9
32.5°	4084.6	3977.7	3339.7	1328.0	503.7	470.1	436.5	396.9	338.9	311.4	305.3
35°	4450.9	4289.1	3312.2	781.5	451.8	415.2	363.3	311.4	268.6	241.2	235.1
37.5°	4872.2	4591.3	3232.9	522.0	415.2	366.3	299.2	247.3	210.6	189.3	183.2
40°	5498.0	5034.0	2927.6	427.4	369.4	311.4	241.2	195.4	167.9	152.6	146.5
42.5°	6187.9	5540.8	2457.5	384.6	326.6	265.6	192.3	158.7	137.4	122.1	122.1
45°	7015.2	6068.9	1895.8	351.1	290.0	219.8	158.7	128.2	109.9	97.7	91.6
47.5°	7937.2	6548.2	1279.1	317.5	244.2	180.1	131.3	97.7	79.4	70.2	70.2
50°	8761.4	6972.5	815.1	277.8	213.7	149.6	106.8	79.4	64.1	51.9	48.8
52.5°	9509.3	7296.1	561.7	244.2	183.2	122.1	88.5	64.1	48.8	39.7	39.7
55°	10275.6	7460.9	415.2	210.6	158.7	103.8	73.3	58.0	42.7	33.6	30.5
57.5°	10904.5	7531.2	317.5	183.2	134.3	82.4	64.1	48.8	36.6	27.5	24.4
60°	11441.7	7497.6	247.3	152.6	106.8	70.2	54.9	39.7	30.5	21.4	18.3
62.5°	11756.2	7296.1	195.4	131.3	85.5	61.1	45.8	33.6	21.4	15.3	12.2
65°	11762.3	6868.7	152.6	97.7	64.1	51.9	39.7	27.5	15.3	6.1	3.1
67.5°	10919.7	5943.7	122.1	76.3	51.9	39.7	30.5	21.4	6.1	0.0	0.0
70°	8541.6	4496.7	100.7	61.1	42.7	33.6	21.4	12.2	3.1	0.0	0.0
72.5°	5443.1	2692.5	82.4	48.8	36.6	24.4	15.3	9.2	0.0	0.0	0.0
75°	2277.4	830.4	64.1	42.7	27.5	18.3	12.2	3.1	0.0	0.0	0.0
77.5°	586.1	262.5	51.9	36.6	27.5	15.3	9.2	3.1	0.0	0.0	0.0
80°	174.0	97.7	42.7	30.5	21.4	12.2	6.1	3.1	0.0	0.0	0.0
82.5°	79.4	58.0	36.6	27.5	18.3	12.2	6.1	0.0	0.0	0.0	0.0
85°	30.5	18.3	18.3	15.3	15.3	9.2	3.1	0.0	0.0	0.0	0.0
87.5°	12.2	6.1	6.1	6.1	3.1	3.1	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)