

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: P484280

Luminaire Tested: **IFLD-S-SA3B-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484280
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

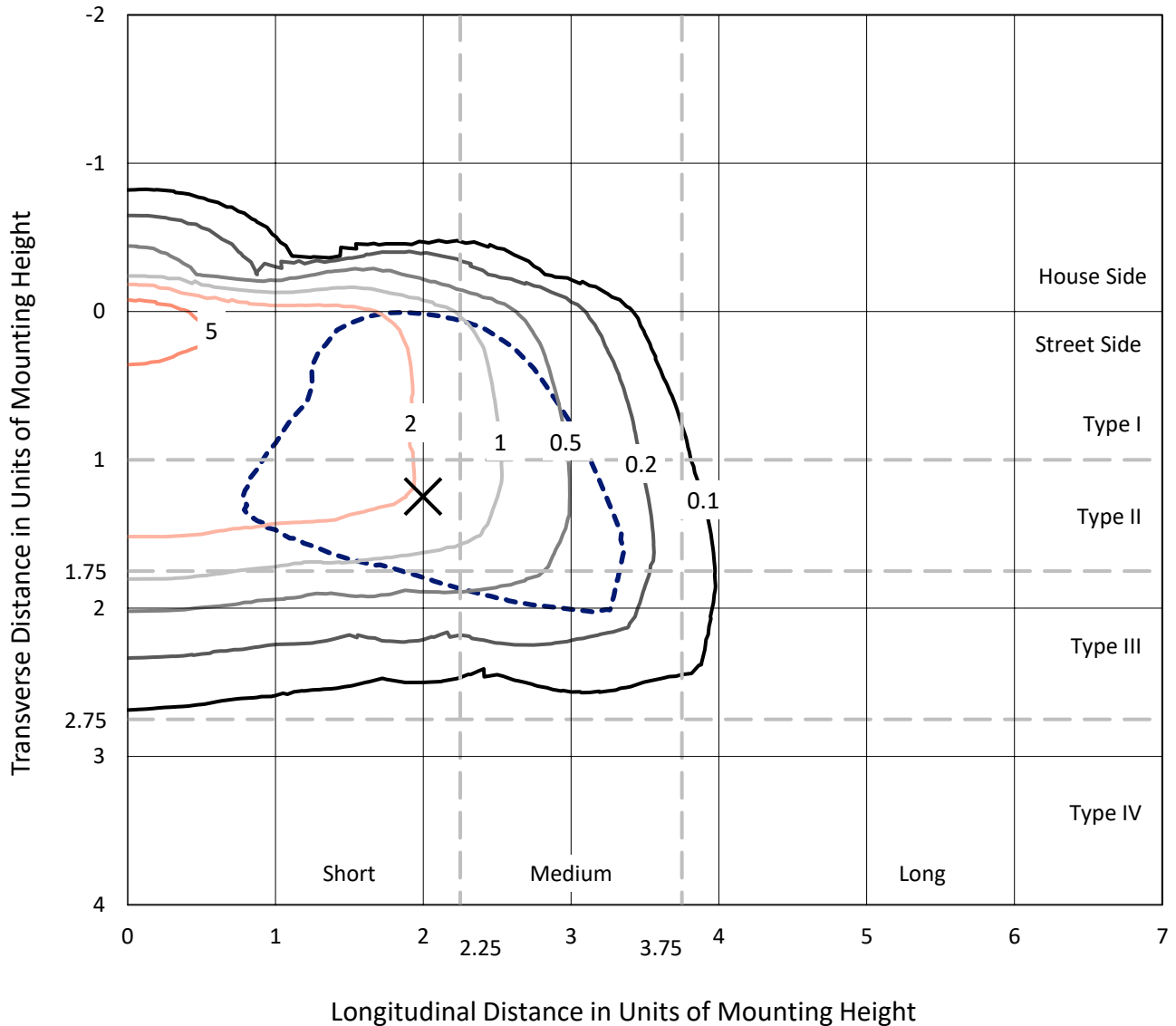
Lumens per Lamp: N/A
Luminaire Lumens: 11900.8 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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

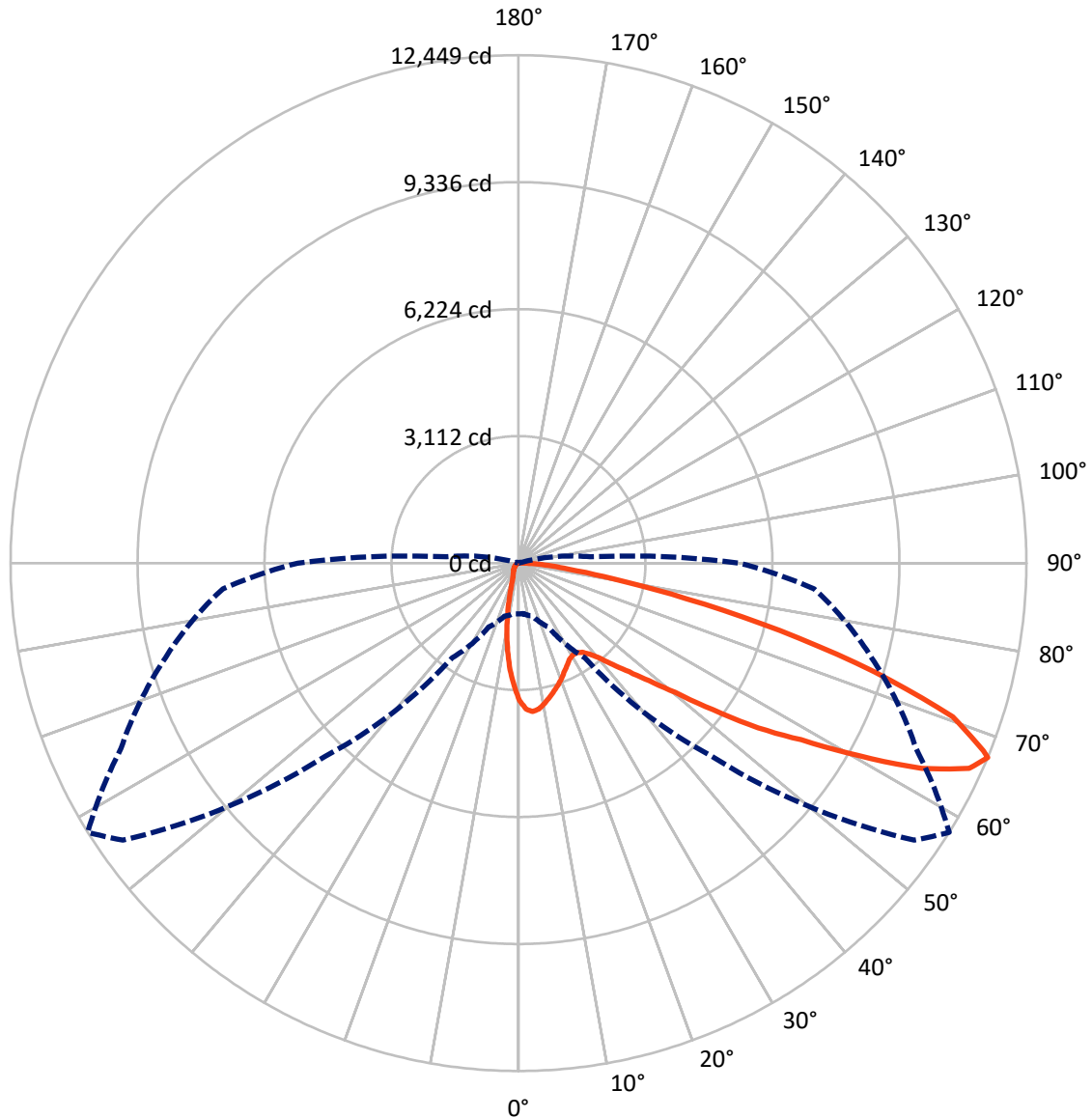
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	983.7	0.0	983.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	10917.1	0.0	10917.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	11900.8	0.0	11900.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	2.2
10°-20°	554.9	4.7
20°-30°	736.2	6.2
30°-40°	1020.2	8.6
40°-50°	1664.6	14.0
50°-60°	2925.9	24.6
60°-70°	3240.7	27.2
70°-80°	1342.9	11.3
80°-90°	147.8	1.2
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°	11900.8	100.0
0°-180°	11900.8	100.0

Coefficient of Utilization

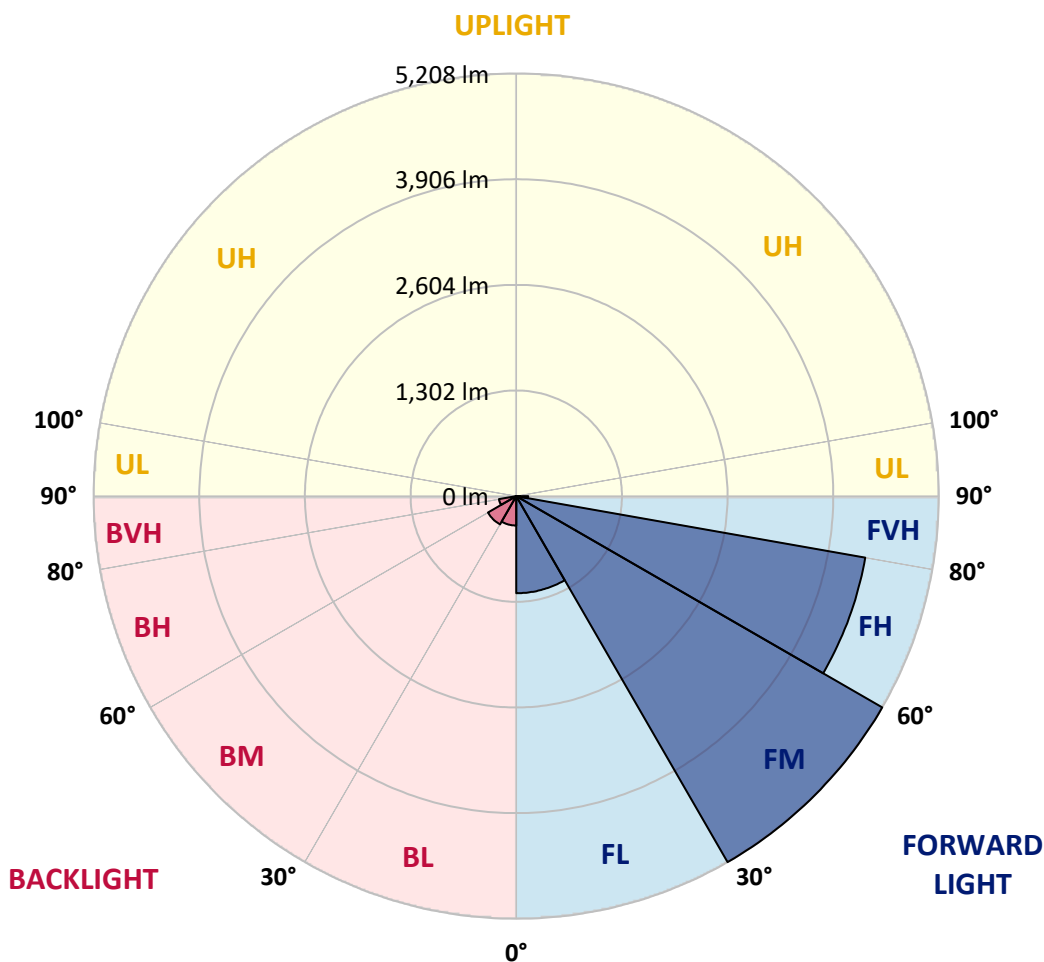


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1196.4	10.1			
FM (30°-60°)	5208.0	43.8			
FH (60°-80°)	4367.3	36.7			G2/5000
FVH (80°-90°)	145.4	1.2			G2/225
BL (0°-30°)	362.3	3.0	B1/500		
BM (30°-60°)	402.7	3.4	B1/1000		
BH (60°-80°)	216.3	1.8	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7
2.5°	3668.7	3681.3	3692.4	3671.8	3689.2	3664.0	3599.2	3585.0	3573.9	3477.5	3422.2
5°	3667.1	3652.9	3664.0	3673.4	3649.7	3668.7	3652.9	3654.5	3611.8	3524.9	3370.1
7.5°	3422.2	3415.9	3422.2	3468.0	3520.2	3561.3	3585.0	3608.7	3580.2	3450.7	3300.6
10°	3092.0	3123.6	3141.0	3223.1	3303.7	3379.6	3453.8	3498.1	3490.2	3438.0	3224.7
12.5°	2861.3	2851.8	2915.0	2968.8	3049.3	3202.6	3332.2	3373.2	3420.6	3348.0	3125.2
15°	2648.0	2622.7	2660.7	2753.9	2891.3	3013.0	3194.7	3256.3	3316.4	3335.3	3071.5
17.5°	2444.2	2456.9	2496.4	2580.1	2709.6	2880.3	3050.9	3139.4	3283.2	3257.9	2990.9
20°	2346.3	2373.1	2387.3	2430.0	2520.1	2690.7	2945.1	3016.2	3169.4	3256.3	2911.9
22.5°	2351.0	2351.0	2317.8	2343.1	2425.3	2558.0	2801.3	2880.3	3123.6	3174.2	2840.8
25°	2401.6	2370.0	2371.5	2341.5	2376.3	2449.0	2671.7	2768.1	3030.4	3182.1	2802.9
27.5°	2439.5	2433.2	2423.7	2415.8	2371.5	2382.6	2586.4	2665.4	2994.0	3172.6	2744.4
30°	2576.9	2548.5	2539.0	2521.6	2463.2	2409.5	2518.5	2618.0	2965.6	3194.7	2711.2
32.5°	2692.3	2697.0	2704.9	2654.3	2603.8	2471.1	2537.4	2616.4	2945.1	3245.3	2744.4
35°	2837.6	2858.2	2861.3	2845.5	2791.8	2660.7	2616.4	2684.4	2979.8	3335.3	2747.6
37.5°	3058.8	3036.7	3096.7	3103.1	3065.1	2891.3	2799.7	2826.6	3082.5	3479.1	2867.6
40°	3202.6	3229.5	3341.6	3411.2	3346.4	3188.4	3065.1	3060.4	3231.0	3705.0	3016.2
42.5°	3362.2	3422.2	3545.5	3695.5	3687.6	3540.7	3415.9	3395.4	3494.9	4032.1	3251.6
45°	3580.2	3633.9	3806.1	4032.1	4155.3	4030.5	3842.5	3801.4	3815.6	4477.6	3652.9
47.5°	3942.0	3927.8	4175.9	4398.6	4600.9	4504.5	4423.9	4303.8	4292.8	5002.2	4207.5
50°	4351.2	4348.1	4569.3	4822.1	5055.9	5243.9	5109.6	4978.5	4981.6	5714.8	4860.0
52.5°	4739.9	4801.5	5040.1	5291.3	5692.6	5894.9	6024.4	5972.3	5721.1	6351.5	5558.3
55°	4945.3	4999.0	5236.0	5668.9	6302.5	6822.3	7173.1	7128.8	6643.8	7068.8	6247.2
57.5°	4751.0	4787.3	5108.0	5675.3	6729.1	7888.8	8225.3	8170.0	7598.1	7617.0	7079.8
60°	3937.3	3994.2	4471.3	5136.5	6563.2	8710.4	9674.2	9590.4	8467.1	8310.6	7615.5
62.5°	2727.0	2764.9	3156.8	3984.7	5776.4	8996.3	11042.4	11088.2	9383.4	8851.0	7775.0
65°	1766.4	1763.2	1987.6	2548.5	4093.7	8130.5	11851.4	12135.7	10268.2	8933.1	7726.1
67°	1248.2	1243.4	1349.3	1728.5	2834.5	6699.1	11837.1	12448.6	10748.5	8956.8	7272.6
67.5°	1151.8	1147.1	1248.2	1589.4	2558.0	6229.8	11660.2	12287.4	10917.6	8923.7	7073.5
70°	894.3	881.6	919.5	1094.9	1489.9	4028.9	9979.1	11287.3	10566.8	8095.8	5648.4
72.5°	646.2	660.4	720.5	899.0	1169.2	2167.7	7606.0	9127.5	8825.7	6101.8	3589.7
75°	450.3	462.9	559.3	733.1	1072.8	1314.5	5142.8	6620.1	6147.7	3368.5	1529.4
77.5°	235.4	251.2	357.1	586.2	974.8	1017.5	3073.0	4198.0	3257.9	1199.2	421.9
80°	109.0	116.9	178.5	415.5	815.3	894.3	1791.7	2335.2	1303.5	268.6	145.4
82.5°	47.4	52.1	82.2	238.6	578.3	782.1	1109.1	1224.5	472.4	86.9	90.1
85°	9.5	11.1	31.6	126.4	279.7	474.0	778.9	726.8	237.0	42.7	71.1
87.5°	0.0	0.0	7.9	36.3	75.8	140.6	330.2	330.2	72.7	22.1	26.9
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°	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7	3371.7
2.5°	3373.2	3316.4	3191.5	3076.2	2994.0	2900.8	2777.6	2722.3	2701.7	2673.3	2630.6
5°	3284.8	3215.2	3001.9	2787.1	2551.7	2373.1	2183.5	2072.9	1989.2	1937.0	1919.7
7.5°	3159.9	3017.7	2730.2	2385.8	2080.8	1815.4	1527.8	1333.5	1208.7	1158.1	1110.7
10°	3060.4	2875.5	2437.9	2009.7	1603.7	1215.0	891.1	720.5	590.9	541.9	535.6
12.5°	2930.8	2709.6	2164.6	1625.8	1115.5	723.6	493.0	428.2	391.8	385.5	380.8
15°	2823.4	2559.6	1905.4	1259.2	722.0	451.9	383.9	368.1	358.7	355.5	357.1
17.5°	2750.7	2398.4	1640.0	916.4	475.6	369.7	353.9	344.4	339.7	338.1	333.4
20°	2607.0	2262.5	1377.7	641.5	371.3	341.3	328.6	320.7	316.0	314.4	312.8
22.5°	2524.8	2090.3	1115.5	447.1	330.2	309.7	300.2	293.9	286.0	281.2	279.7
25°	2442.6	1963.9	881.6	347.6	300.2	286.0	271.8	263.9	251.2	244.9	243.3
27.5°	2346.3	1839.1	679.4	301.8	270.2	256.0	241.7	229.1	213.3	207.0	203.8
30°	2291.0	1717.4	511.9	270.2	248.1	229.1	211.7	195.9	178.5	167.5	164.3
32.5°	2262.5	1606.8	383.9	246.5	224.4	203.8	181.7	162.7	146.9	137.5	135.9
35°	2227.8	1499.4	301.8	224.4	202.2	180.1	158.0	139.0	123.2	115.3	112.2
37.5°	2264.1	1436.2	251.2	207.0	184.9	159.6	135.9	116.9	104.3	96.4	94.8
40°	2363.6	1384.1	218.0	191.2	167.5	140.6	118.5	99.5	88.5	82.2	79.0
42.5°	2516.9	1384.1	197.5	175.4	151.7	123.2	101.1	86.9	75.8	69.5	67.9
45°	2795.0	1426.7	180.1	159.6	132.7	105.9	86.9	72.7	61.6	55.3	53.7
47.5°	3185.2	1524.7	165.9	145.4	118.5	93.2	75.8	61.6	50.6	44.2	42.7
50°	3709.8	1747.4	151.7	128.0	105.9	80.6	63.2	49.0	39.5	33.2	31.6
52.5°	4363.9	2063.4	137.5	118.5	90.1	67.9	50.6	39.5	30.0	25.3	23.7
55°	5055.9	2450.5	120.1	105.9	77.4	56.9	41.1	30.0	22.1	19.0	17.4
57.5°	5752.7	2749.1	105.9	91.6	63.2	45.8	33.2	23.7	15.8	12.6	11.1
60°	6122.4	2777.6	91.6	75.8	50.6	36.3	25.3	17.4	11.1	7.9	6.3
62.5°	6179.3	2524.8	79.0	61.6	41.1	28.4	17.4	12.6	6.3	3.2	3.2
65°	5887.0	2104.5	67.9	49.0	31.6	20.5	12.6	7.9	3.2	1.6	0.0
67°	5413.0	1763.2	58.5	41.1	25.3	15.8	9.5	4.7	1.6	0.0	0.0
67.5°	5229.7	1668.4	55.3	37.9	23.7	14.2	7.9	4.7	1.6	0.0	0.0
70°	4058.9	1191.3	41.1	26.9	17.4	11.1	6.3	3.2	0.0	0.0	0.0
72.5°	2486.9	696.8	31.6	19.0	12.6	7.9	4.7	1.6	0.0	0.0	0.0
75°	1042.8	240.2	26.9	14.2	9.5	4.7	3.2	1.6	0.0	0.0	0.0
77.5°	271.8	90.1	19.0	9.5	6.3	4.7	3.2	1.6	0.0	0.0	0.0
80°	110.6	41.1	12.6	6.3	6.3	4.7	3.2	1.6	0.0	0.0	0.0
82.5°	72.7	19.0	7.9	6.3	4.7	3.2	1.6	0.0	0.0	0.0	0.0
85°	55.3	11.1	4.7	4.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	6.3	4.7	3.2	3.2	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)