

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: P484710

Luminaire Tested: **IFLD-S-SA3C-730-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484710
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-730-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

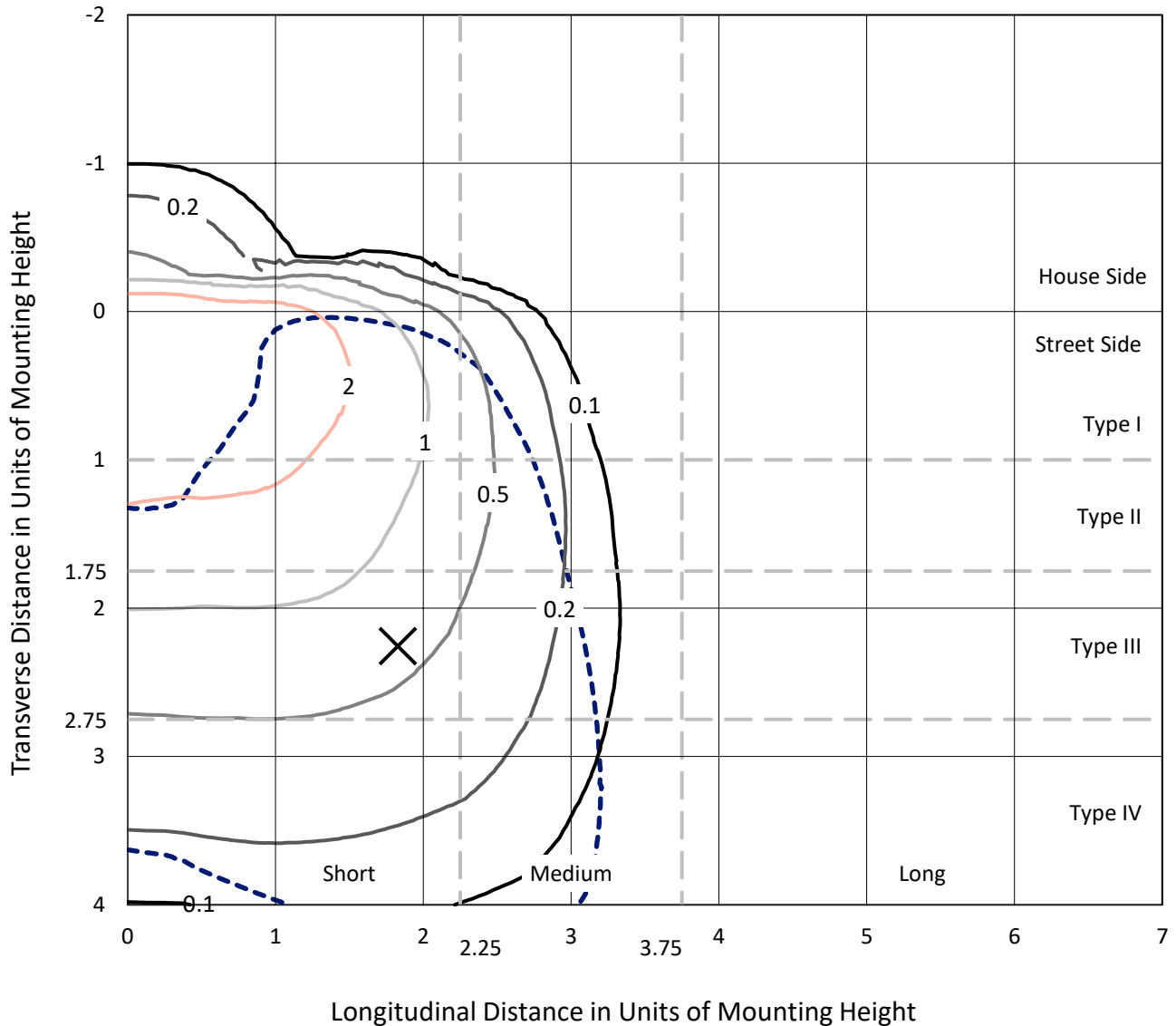
Lumens per Lamp: N/A
Luminaire Lumens: 15934.4 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

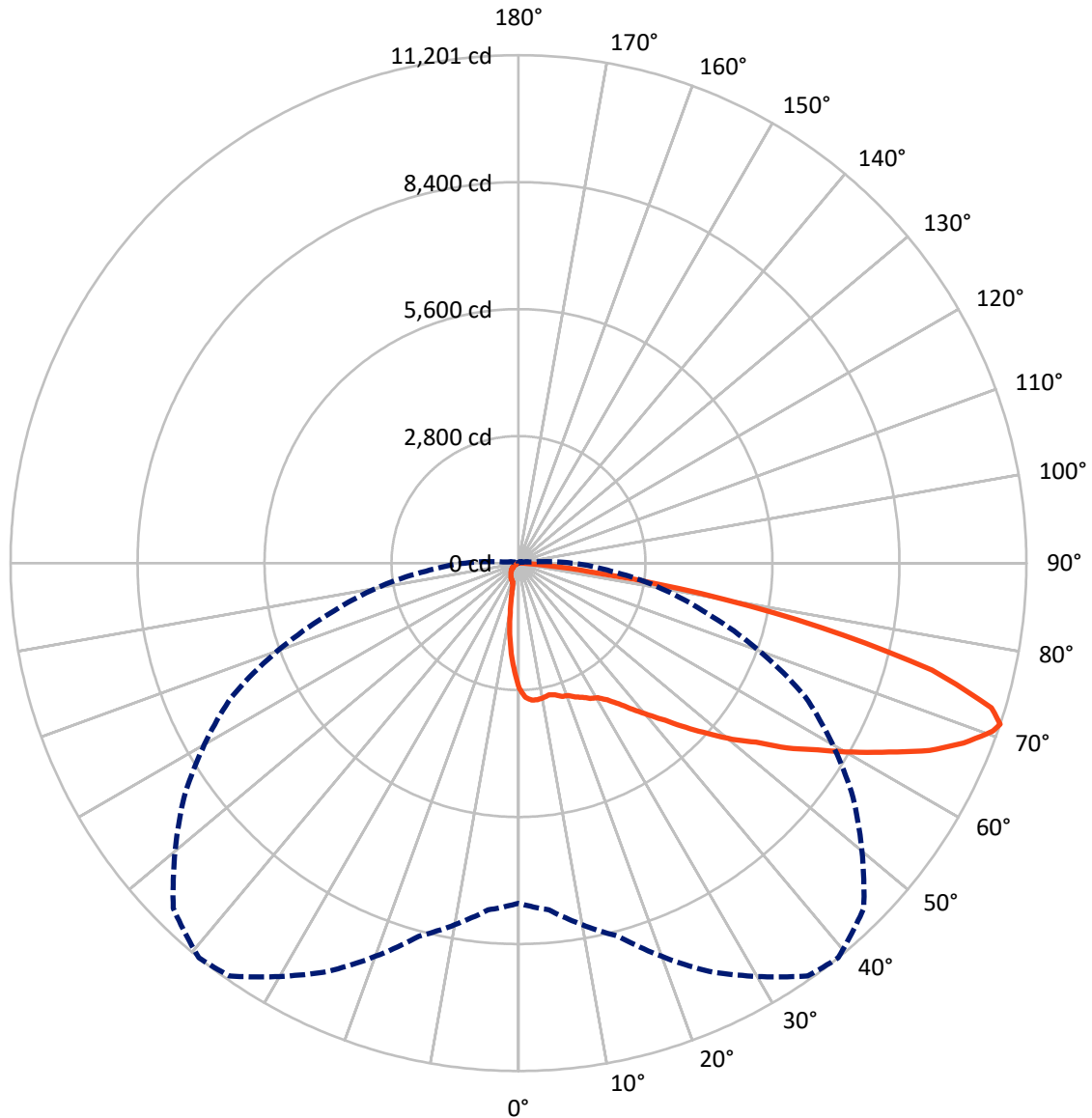
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1199.6	0.0	1199.6
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14734.8	0.0	14734.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	15934.4	0.0	15934.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.9	1.5
10°-20°	570.7	3.6
20°-30°	916.2	5.7
30°-40°	1402.5	8.8
40°-50°	2251.3	14.1
50°-60°	3306.8	20.8
60°-70°	4164.8	26.1
70°-80°	2779.5	17.4
80°-90°	310.6	1.9
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°	15934.4	100.0
0°-180°	15934.4	100.0



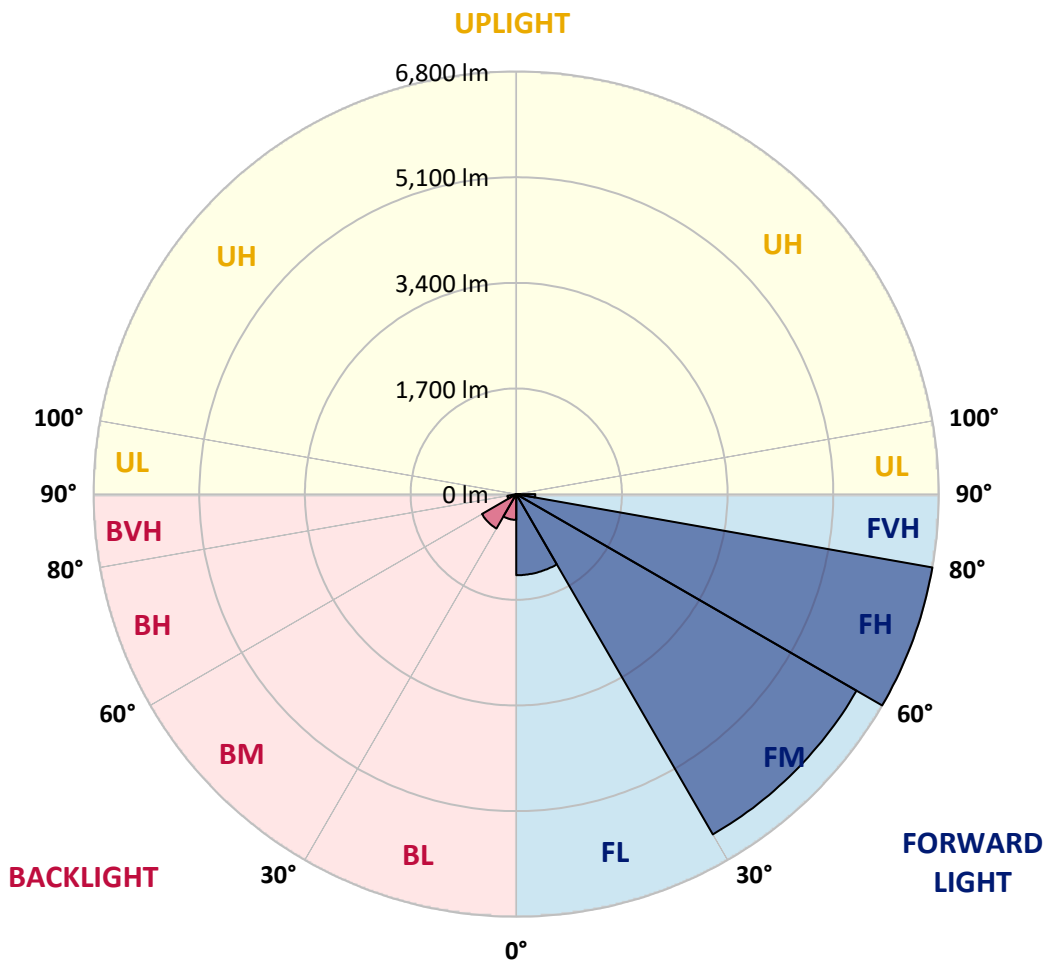
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.7	8.2			
FM (30°-60°)	6323.0	39.7			
FH (60°-80°)	6799.9	42.7			G3/7500
FVH (80°-90°)	307.2	1.9			G3/500
BL (0°-30°)	414.2	2.6	B1/500		
BM (30°-60°)	637.6	4.0	B1/1000		
BH (60°-80°)	144.4	0.9	B1/500		G1/500
BVH (80°-90°)	3.4	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5
2.5°	2988.8	3018.0	2988.8	2976.2	2963.7	2965.8	2932.3	2938.6	2898.9	2846.6	2804.8
5°	3082.8	3122.5	3091.2	3076.5	3074.5	3034.7	3018.0	2978.3	2930.2	2848.7	2798.6
7.5°	3074.5	3066.1	3080.7	3068.2	3041.0	3041.0	3022.2	2965.8	2917.7	2825.7	2740.0
10°	3011.8	3036.8	3024.3	3009.7	3015.9	3018.0	2982.5	2942.8	2928.1	2836.2	2696.2
12.5°	3005.5	2963.7	3009.7	3011.8	2984.6	2982.5	2978.3	2967.9	2921.9	2838.3	2706.6
15°	2984.6	2967.9	3013.8	3015.9	3022.2	3015.9	3022.2	3013.8	2967.9	2919.8	2752.6
17.5°	3001.3	2982.5	3047.3	3078.6	3064.0	3093.3	3082.8	3045.2	3005.5	2949.0	2796.5
20°	3005.5	3032.7	3103.7	3116.3	3162.2	3114.2	3112.1	3072.4	3047.3	2986.7	2823.6
22.5°	3082.8	3095.4	3183.1	3210.3	3212.4	3206.1	3153.9	3107.9	3097.4	3022.2	2829.9
25°	3199.9	3243.7	3283.5	3300.2	3306.4	3277.2	3222.8	3164.3	3139.2	3091.2	2894.7
27.5°	3406.8	3379.6	3415.1	3440.2	3369.1	3379.6	3310.6	3260.5	3224.9	3183.1	2969.9
30°	3590.7	3565.6	3567.7	3563.5	3502.9	3446.5	3427.7	3339.9	3296.0	3312.7	3087.0
32.5°	3755.8	3701.5	3747.4	3726.5	3613.7	3597.0	3582.3	3471.6	3479.9	3557.3	3262.6
35°	3908.4	3889.6	3927.2	3889.6	3814.3	3810.1	3795.5	3699.4	3745.4	3856.1	3563.5
37.5°	4048.4	4054.7	4100.7	4081.9	4088.1	4092.3	4083.9	3981.5	4113.2	4361.9	3914.6
40°	4178.0	4169.6	4282.5	4341.0	4353.6	4399.5	4399.5	4374.5	4577.2	4857.3	4401.6
42.5°	4315.9	4336.8	4483.1	4581.4	4700.5	4740.2	4794.6	4807.1	5120.6	5440.4	4899.1
45°	4541.7	4506.1	4692.1	4924.1	5028.6	5168.7	5252.3	5323.3	5701.6	6140.5	5396.5
47.5°	4828.0	4756.9	4920.0	5256.5	5498.9	5613.9	5764.3	5858.4	6228.3	6681.9	5866.7
50°	5145.7	5072.5	5152.0	5615.9	5898.1	6107.1	6299.4	6418.5	6865.8	7288.0	6209.5
52.5°	5505.2	5438.3	5450.8	5990.1	6406.0	6558.6	6811.4	6989.1	7434.3	7653.7	6330.7
55°	5887.6	5870.9	5831.2	6355.8	6851.2	7193.9	7346.5	7559.7	8017.4	7852.3	6462.4
57.5°	6272.2	6220.0	6276.4	6840.7	7566.0	7770.8	7981.9	8109.4	8341.4	8025.8	6412.2
60°	6633.8	6638.0	6717.4	7367.4	8174.2	8464.7	8654.9	8577.5	8673.7	8101.0	6297.3
62.5°	6938.9	6930.6	7131.2	7958.9	8978.8	9175.3	9317.4	8972.6	8828.3	8174.2	6096.7
65°	7212.7	7306.8	7622.4	8663.2	9735.4	9961.1	9875.4	9346.7	8978.8	7958.9	5532.3
67.5°	7419.6	7559.7	8107.3	9325.8	10429.3	10588.2	10469.0	9630.9	8801.2	7114.5	4506.1
70°	7540.9	7683.0	8454.2	9877.5	10983.2	11098.1	10818.1	9411.5	7764.5	5152.0	2811.1
71°	7503.3	7676.7	8521.1	9936.1	11114.8	11200.5	10765.8	9006.0	6982.8	4313.8	2050.3
72.5°	7162.6	7325.6	8243.1	9894.3	10956.0	10903.7	10358.2	8032.0	5496.8	2750.5	1059.7
75°	5262.7	5438.3	7074.8	8558.7	9779.3	9419.8	8383.2	5636.8	2867.5	842.3	309.3
77.5°	2620.9	2650.2	4391.2	6213.7	7173.0	6815.6	5618.0	3143.4	1072.2	248.7	154.7
80°	1208.0	1216.4	1647.0	3218.7	4336.8	4081.9	3147.6	1550.8	484.9	131.7	121.2
82.5°	823.5	836.0	992.8	1333.4	1883.1	1588.4	1274.9	992.8	278.0	79.4	119.1
85°	150.5	137.9	556.0	706.4	727.3	493.2	441.0	859.0	104.5	46.0	104.5
87.5°	0.0	2.1	77.3	288.4	259.2	115.0	150.5	209.0	10.5	14.6	18.8
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°	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5	2773.5
2.5°	2769.3	2746.3	2669.0	2583.3	2506.0	2445.3	2368.0	2332.5	2276.1	2244.7	2242.6
5°	2729.6	2666.9	2533.1	2388.9	2228.0	2094.2	1945.8	1862.2	1766.1	1736.8	1730.6
7.5°	2662.7	2572.8	2376.4	2173.6	1927.0	1690.8	1509.0	1314.6	1195.5	1145.3	1126.5
10°	2620.9	2512.2	2244.7	1941.6	1596.8	1264.5	1009.5	802.6	693.9	641.6	629.1
12.5°	2620.9	2503.9	2138.1	1720.1	1262.4	865.3	624.9	505.8	470.3	457.7	457.7
15°	2614.6	2487.1	2035.7	1492.3	934.2	581.0	466.1	441.0	436.8	434.7	432.6
17.5°	2646.0	2457.9	1931.2	1247.8	660.5	457.7	428.5	424.3	420.1	420.1	415.9
20°	2669.0	2441.2	1805.8	988.6	493.2	424.3	411.7	405.5	403.4	401.3	405.5
22.5°	2650.2	2416.1	1651.1	739.9	430.5	403.4	395.0	388.7	384.6	384.6	386.7
25°	2685.7	2393.1	1496.5	558.0	403.4	384.6	376.2	372.0	369.9	367.8	363.7
27.5°	2733.8	2403.5	1312.5	449.4	380.4	365.8	357.4	353.2	351.1	346.9	351.1
30°	2792.3	2401.5	1109.8	392.9	359.5	344.9	336.5	334.4	330.2	328.1	330.2
32.5°	2892.6	2455.8	900.8	363.7	336.5	324.0	315.6	313.5	311.4	309.3	307.2
35°	3107.9	2522.7	704.3	340.7	315.6	301.0	294.7	290.5	288.4	286.3	284.2
37.5°	3373.3	2671.1	537.1	319.8	294.7	280.1	273.8	271.7	263.3	261.3	259.2
40°	3705.6	2829.9	413.8	296.8	275.9	261.3	255.0	248.7	238.3	234.1	229.9
42.5°	4119.5	2984.6	340.7	275.9	255.0	244.5	234.1	223.6	215.3	206.9	202.7
45°	4533.3	3164.3	298.9	257.1	238.3	225.7	217.4	202.7	188.1	175.6	173.5
47.5°	4878.2	3229.1	273.8	236.2	221.5	211.1	198.6	179.7	158.8	146.3	144.2
50°	5135.2	3191.5	248.7	215.3	202.7	192.3	175.6	152.6	131.7	119.1	115.0
52.5°	5185.4	3026.4	225.7	198.6	183.9	171.4	152.6	127.5	104.5	92.0	89.9
55°	5149.9	2752.6	206.9	183.9	167.2	148.4	127.5	102.4	81.5	69.0	66.9
57.5°	5076.7	2428.6	186.0	165.1	146.3	127.5	104.5	83.6	60.6	48.1	48.1
60°	4828.0	1987.6	165.1	144.2	125.4	108.7	85.7	60.6	41.8	31.4	29.3
62.5°	4481.1	1527.8	144.2	123.3	108.7	89.9	66.9	43.9	25.1	16.7	16.7
65°	3847.8	1070.1	121.2	102.4	89.9	73.2	50.2	27.2	14.6	6.3	6.3
67.5°	2924.0	662.5	100.3	85.7	77.3	58.5	35.5	16.7	6.3	2.1	0.0
70°	1678.3	344.9	79.4	69.0	60.6	43.9	25.1	8.4	4.2	0.0	0.0
71°	1172.5	255.0	71.1	60.6	54.3	39.7	20.9	6.3	2.1	0.0	0.0
72.5°	587.3	169.3	60.6	50.2	43.9	31.4	16.7	6.3	2.1	0.0	0.0
75°	209.0	108.7	41.8	33.4	31.4	23.0	10.5	4.2	2.1	0.0	0.0
77.5°	144.2	87.8	29.3	20.9	20.9	14.6	6.3	2.1	2.1	0.0	0.0
80°	131.7	48.1	18.8	12.5	10.5	8.4	4.2	2.1	0.0	0.0	0.0
82.5°	131.7	35.5	10.5	8.4	6.3	4.2	2.1	0.0	0.0	0.0	0.0
85°	92.0	18.8	6.3	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	14.6	6.3	4.2	2.1	2.1	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)