

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: P484672

Luminaire Tested: **IFLD-S-SA3D-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484672
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

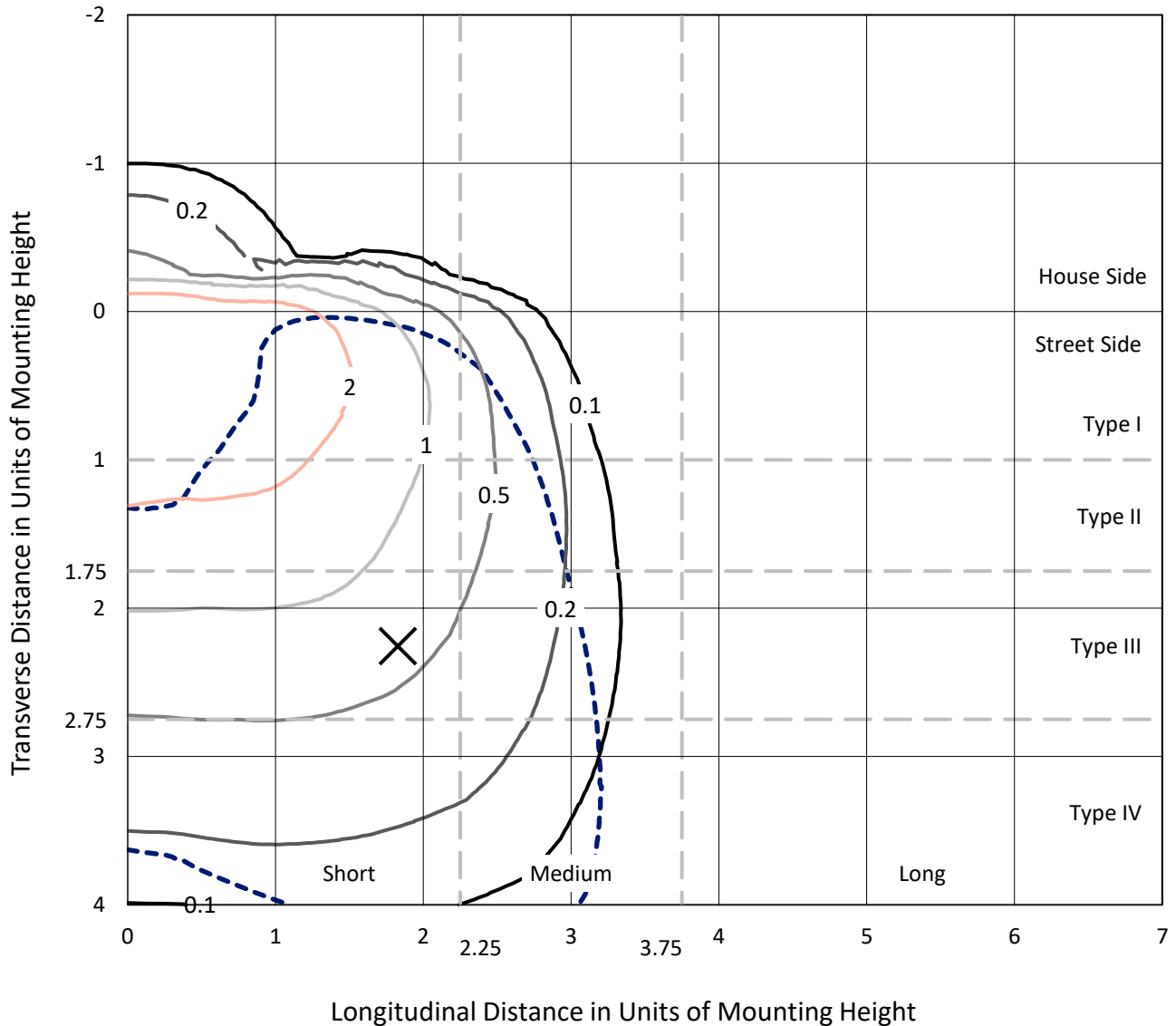
Lumens per Lamp: N/A
Luminaire Lumens: 16102.4 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1
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

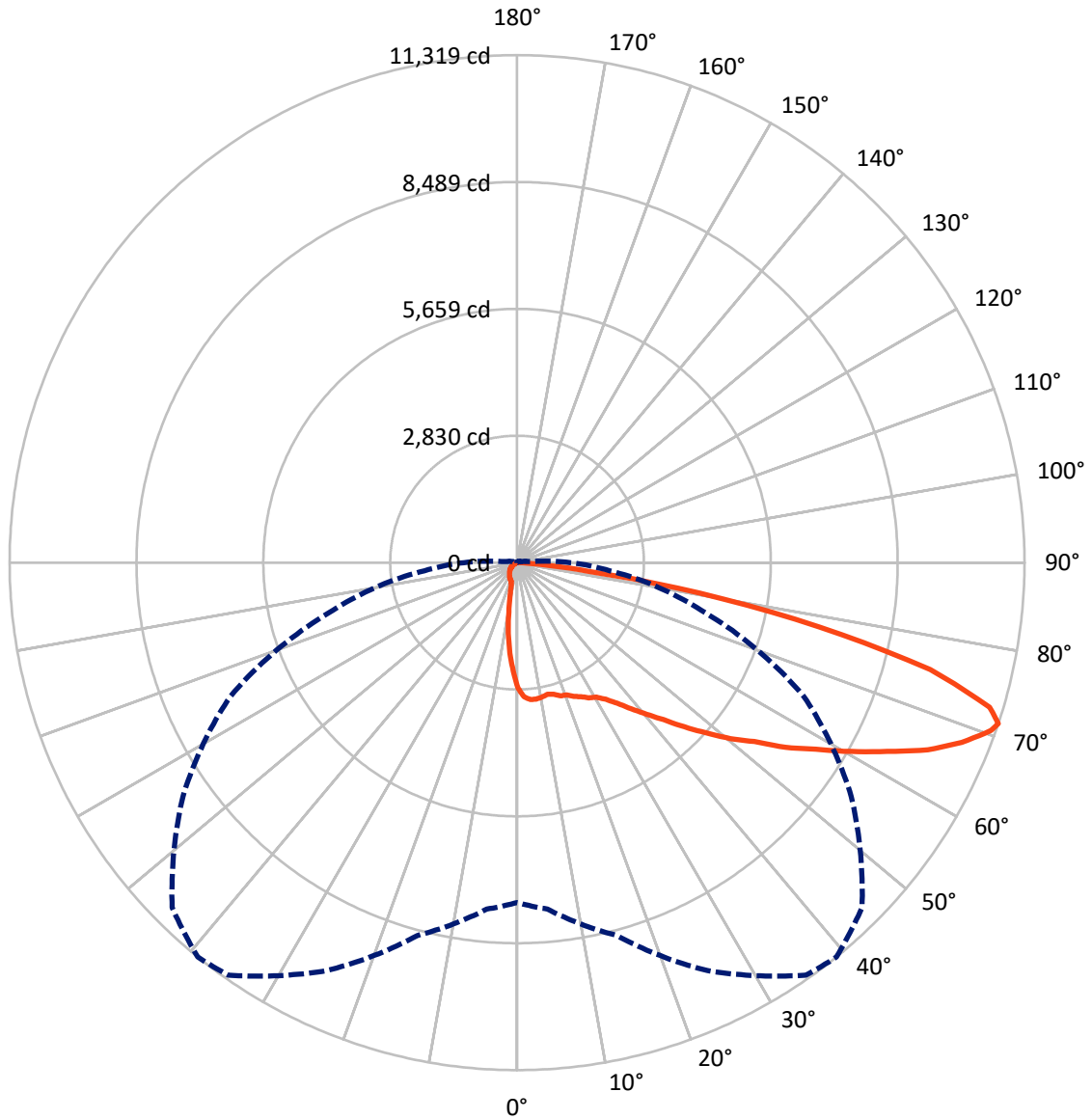
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1212.2	0.0	1212.2
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	14890.1	0.0	14890.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	16102.4	0.0	16102.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	1.5
10°-20°	576.8	3.6
20°-30°	925.9	5.7
30°-40°	1417.3	8.8
40°-50°	2275.0	14.1
50°-60°	3341.7	20.8
60°-70°	4208.7	26.1
70°-80°	2808.8	17.4
80°-90°	313.9	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°	16102.4	100.0
0°-180°	16102.4	100.0



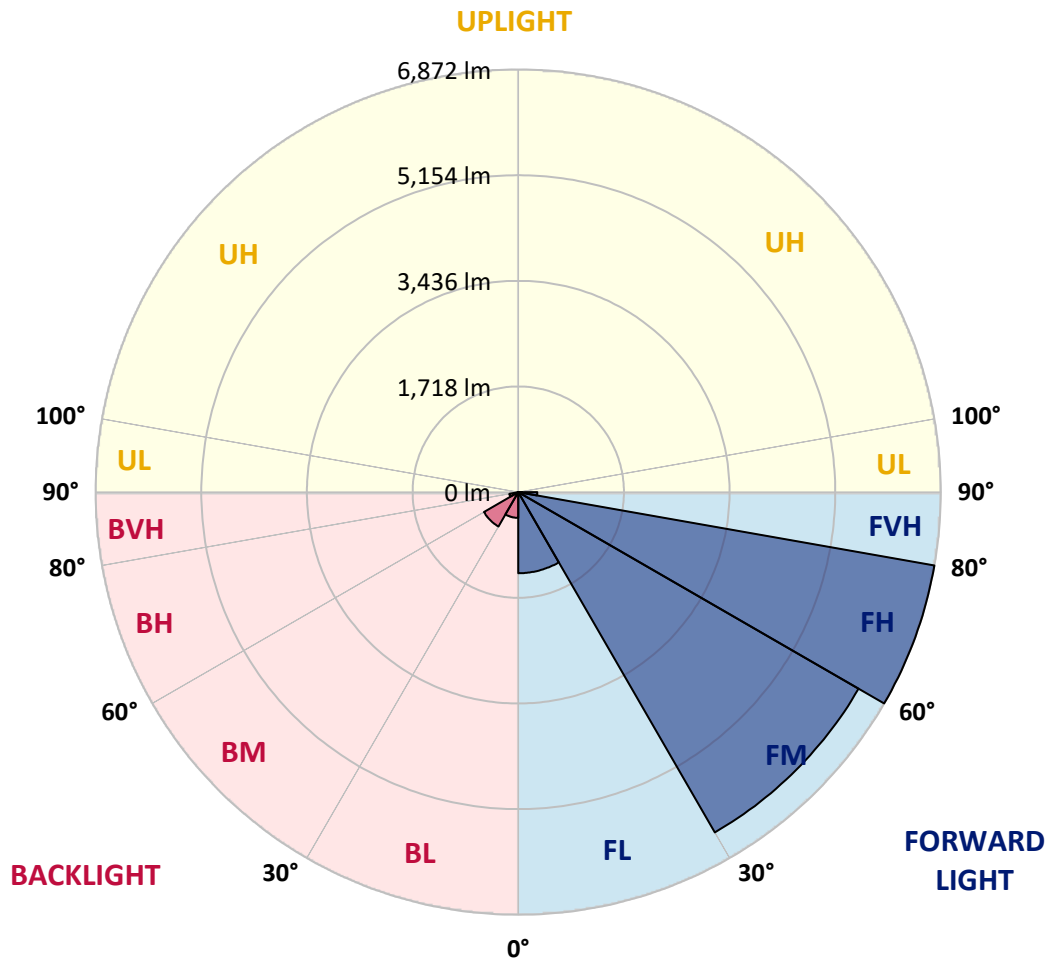
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1318.4	8.2			
FM (30°-60°)	6389.7	39.7			
FH (60°-80°)	6871.6	42.7			G3/7500
FVH (80°-90°)	310.4	1.9			G3/500
BL (0°-30°)	418.5	2.6	B1/500		
BM (30°-60°)	644.4	4.0	B1/1000		
BH (60°-80°)	145.9	0.9	B1/500		G1/500
BVH (80°-90°)	3.5	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°	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7
2.5°	3020.3	3049.8	3020.3	3007.6	2994.9	2997.0	2963.2	2969.6	2929.4	2876.6	2834.4
5°	3115.3	3155.4	3123.8	3109.0	3106.9	3066.7	3049.8	3009.7	2961.1	2878.8	2828.1
7.5°	3106.9	3098.4	3113.2	3100.5	3073.1	3073.1	3054.1	2997.0	2948.5	2855.5	2768.9
10°	3043.5	3068.8	3056.2	3041.4	3047.7	3049.8	3013.9	2973.8	2959.0	2866.1	2724.6
12.5°	3037.2	2994.9	3041.4	3043.5	3016.0	3013.9	3009.7	2999.1	2952.7	2868.2	2735.1
15°	3016.0	2999.1	3045.6	3047.7	3054.1	3047.7	3054.1	3045.6	2999.1	2950.6	2781.6
17.5°	3032.9	3013.9	3079.4	3111.1	3096.3	3125.9	3115.3	3077.3	3037.2	2980.1	2826.0
20°	3037.2	3064.6	3136.4	3149.1	3195.6	3147.0	3144.9	3104.8	3079.4	3018.2	2853.4
22.5°	3115.3	3128.0	3216.7	3244.1	3246.3	3239.9	3187.1	3140.7	3130.1	3054.1	2859.8
25°	3233.6	3277.9	3318.1	3335.0	3341.3	3311.7	3256.8	3197.7	3172.3	3123.8	2925.2
27.5°	3442.7	3415.2	3451.1	3476.5	3404.7	3415.2	3345.5	3294.8	3258.9	3216.7	3001.3
30°	3628.5	3603.2	3605.3	3601.1	3539.8	3482.8	3463.8	3375.1	3330.7	3347.6	3119.5
32.5°	3795.4	3740.5	3787.0	3765.8	3651.8	3634.9	3620.1	3508.2	3516.6	3594.8	3297.0
35°	3949.6	3930.6	3968.6	3930.6	3854.5	3850.3	3835.5	3738.4	3784.8	3896.8	3601.1
37.5°	4091.1	4097.4	4143.9	4124.9	4131.2	4135.4	4127.0	4023.5	4156.6	4407.9	3955.9
40°	4222.0	4213.6	4327.6	4386.8	4399.5	4445.9	4445.9	4420.6	4625.4	4908.5	4448.0
42.5°	4361.4	4382.6	4530.4	4629.7	4750.1	4790.2	4845.1	4857.8	5174.6	5497.7	4950.7
45°	4589.5	4553.6	4741.6	4976.1	5081.7	5223.2	5307.6	5379.5	5761.7	6205.3	5453.4
47.5°	4878.9	4807.1	4971.8	5311.9	5556.9	5673.0	5825.1	5920.1	6294.0	6752.3	5928.6
50°	5199.9	5126.0	5206.3	5675.1	5960.3	6171.5	6365.8	6486.2	6938.2	7364.8	6275.0
52.5°	5563.2	5495.6	5508.3	6053.2	6473.5	6627.7	6883.3	7062.8	7512.7	7734.4	6397.5
55°	5949.7	5932.8	5892.7	6422.8	6923.4	7269.8	7423.9	7639.4	8101.9	7935.1	6530.5
57.5°	6338.3	6285.5	6342.6	6912.8	7645.7	7852.7	8066.0	8194.9	8429.3	8110.4	6479.8
60°	6703.7	6708.0	6788.2	7445.1	8260.3	8553.9	8746.1	8668.0	8765.1	8186.4	6363.7
62.5°	7012.1	7003.6	7206.4	8042.8	9073.5	9272.0	9415.6	9067.1	8921.4	8260.3	6160.9
65°	7288.8	7383.8	7702.7	8754.6	9838.0	10066.2	9979.6	9445.2	9073.5	8042.8	5590.7
67.5°	7497.9	7639.4	8192.7	9424.1	10539.3	10699.8	10579.4	9732.4	8894.0	7189.5	4553.6
70°	7620.4	7764.0	8543.3	9981.7	11099.0	11215.1	10932.1	9510.7	7846.4	5206.3	2840.7
71°	7582.4	7757.7	8610.9	10040.8	11232.0	11318.6	10879.3	9100.9	7056.4	4359.3	2071.9
72.5°	7238.1	7402.8	8330.0	9998.6	11071.5	11018.7	10467.4	8116.7	5554.8	2779.5	1070.8
75°	5318.2	5495.6	7149.4	8649.0	9882.4	9519.1	8471.5	5696.3	2897.8	851.2	312.6
77.5°	2648.5	2678.1	4437.5	6279.2	7248.6	6887.5	5677.3	3176.6	1083.5	251.3	156.3
80°	1220.8	1229.2	1664.3	3252.6	4382.6	4124.9	3180.8	1567.2	490.0	133.1	122.5
82.5°	832.2	844.8	1003.2	1347.5	1903.0	1605.2	1288.4	1003.2	280.9	80.3	120.4
85°	152.1	139.4	561.8	713.9	735.0	498.4	445.6	868.1	105.6	46.5	105.6
87.5°	0.0	2.1	78.1	291.5	261.9	116.2	152.1	211.2	10.6	14.8	19.0
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°	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7	2802.7
2.5°	2798.5	2775.3	2697.1	2610.5	2532.4	2471.1	2393.0	2357.1	2300.1	2268.4	2266.3
5°	2758.4	2695.0	2559.8	2414.1	2251.5	2116.3	1966.3	1881.9	1784.7	1755.1	1748.8
7.5°	2690.8	2600.0	2401.4	2196.6	1947.3	1708.7	1524.9	1328.5	1208.1	1157.4	1138.4
10°	2648.5	2538.7	2268.4	1962.1	1613.6	1277.8	1020.1	811.0	701.2	648.4	635.7
12.5°	2648.5	2530.3	2160.7	1738.2	1275.7	874.4	631.5	511.1	475.2	462.5	462.5
15°	2642.2	2513.4	2057.2	1508.0	944.1	587.2	471.0	445.6	441.4	439.3	437.2
17.5°	2673.9	2483.8	1951.6	1260.9	667.4	462.5	433.0	428.8	424.5	424.5	420.3
20°	2697.1	2466.9	1824.8	999.0	498.4	428.8	416.1	409.7	407.6	405.5	409.7
22.5°	2678.1	2441.6	1668.5	747.7	435.1	407.6	399.2	392.8	388.6	388.6	390.7
25°	2714.0	2418.3	1512.2	563.9	407.6	388.6	380.2	375.9	373.8	371.7	367.5
27.5°	2762.6	2428.9	1326.4	454.1	384.4	369.6	361.2	356.9	354.8	350.6	354.8
30°	2821.7	2426.8	1121.5	397.1	363.3	348.5	340.0	337.9	333.7	331.6	333.7
32.5°	2923.1	2481.7	910.3	367.5	340.0	327.4	318.9	316.8	314.7	312.6	310.5
35°	3140.7	2549.3	711.8	344.3	318.9	304.1	297.8	293.6	291.5	289.4	287.2
37.5°	3408.9	2699.2	542.8	323.1	297.8	283.0	276.7	274.6	266.1	264.0	261.9
40°	3744.7	2859.8	418.2	299.9	278.8	264.0	257.7	251.3	240.8	236.6	232.3
42.5°	4162.9	3016.0	344.3	278.8	257.7	247.1	236.6	226.0	217.5	209.1	204.9
45°	4581.1	3197.7	302.0	259.8	240.8	228.1	219.7	204.9	190.1	177.4	175.3
47.5°	4929.6	3263.2	276.7	238.7	223.9	213.3	200.6	181.6	160.5	147.8	145.7
50°	5189.4	3225.1	251.3	217.5	204.9	194.3	177.4	154.2	133.1	120.4	116.2
52.5°	5240.1	3058.3	228.1	200.6	185.9	173.2	154.2	128.8	105.6	92.9	90.8
55°	5204.2	2781.6	209.1	185.9	169.0	150.0	128.8	103.5	82.4	69.7	67.6
57.5°	5130.2	2454.2	188.0	166.9	147.8	128.8	105.6	84.5	61.3	48.6	48.6
60°	4878.9	2008.6	166.9	145.7	126.7	109.8	86.6	61.3	42.2	31.7	29.6
62.5°	4528.3	1543.9	145.7	124.6	109.8	90.8	67.6	44.4	25.3	16.9	16.9
65°	3888.3	1081.4	122.5	103.5	90.8	73.9	50.7	27.5	14.8	6.3	6.3
67.5°	2954.8	669.5	101.4	86.6	78.1	59.1	35.9	16.9	6.3	2.1	0.0
70°	1696.0	348.5	80.3	69.7	61.3	44.4	25.3	8.4	4.2	0.0	0.0
71°	1184.9	257.7	71.8	61.3	54.9	40.1	21.1	6.3	2.1	0.0	0.0
72.5°	593.5	171.1	61.3	50.7	44.4	31.7	16.9	6.3	2.1	0.0	0.0
75°	211.2	109.8	42.2	33.8	31.7	23.2	10.6	4.2	2.1	0.0	0.0
77.5°	145.7	88.7	29.6	21.1	21.1	14.8	6.3	2.1	2.1	0.0	0.0
80°	133.1	48.6	19.0	12.7	10.6	8.4	4.2	2.1	0.0	0.0	0.0
82.5°	133.1	35.9	10.6	8.4	6.3	4.2	2.1	0.0	0.0	0.0	0.0
85°	92.9	19.0	6.3	6.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
87.5°	14.8	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)