

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: P484029

Luminaire Tested: **IFLD-M-SA4D-740-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484029  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-740-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

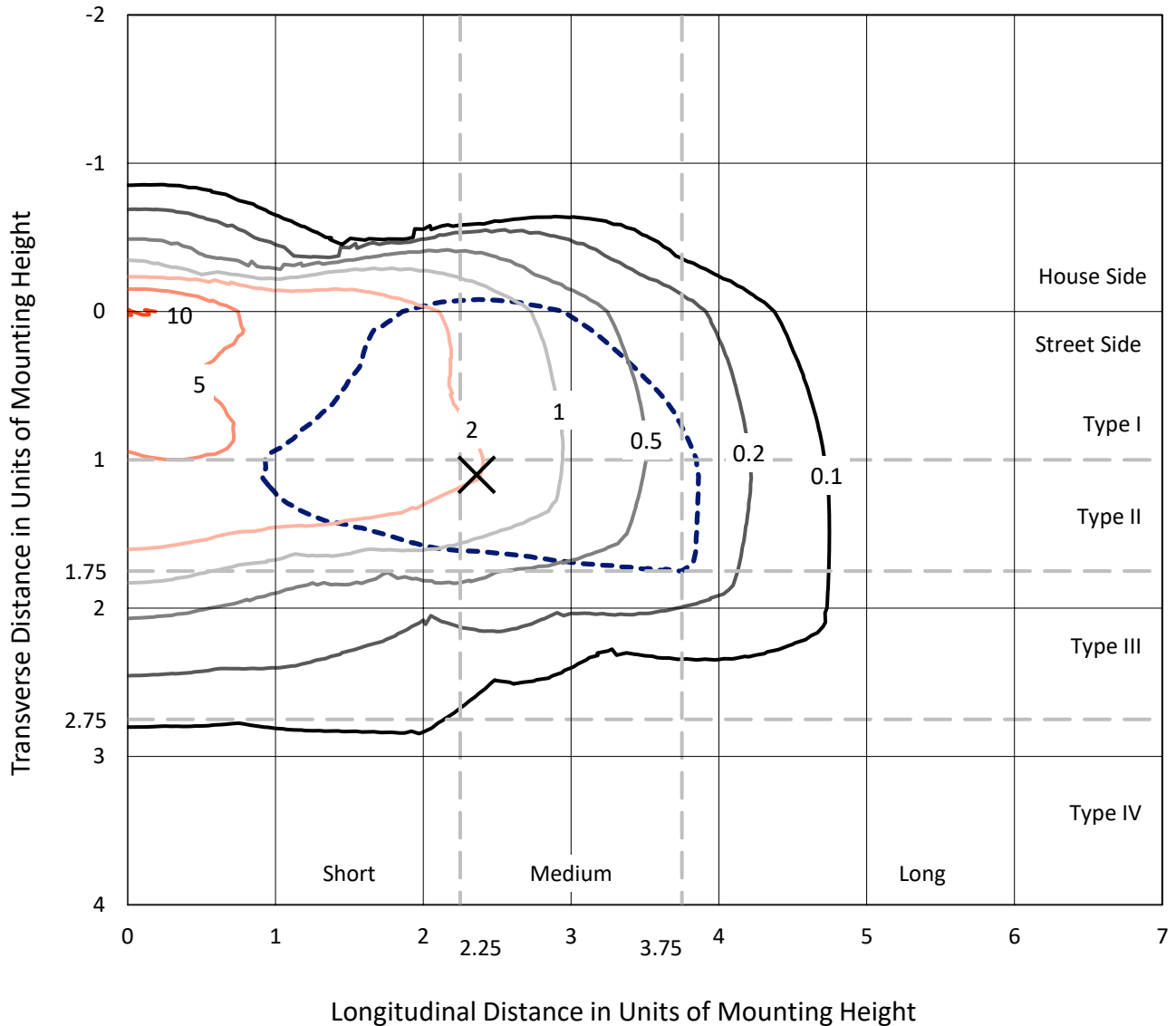
Lumens per Lamp: N/A  
Luminaire Lumens: 25748.3 lumens  
Efficiency: N/A  
Efficacy: 103.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7  
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

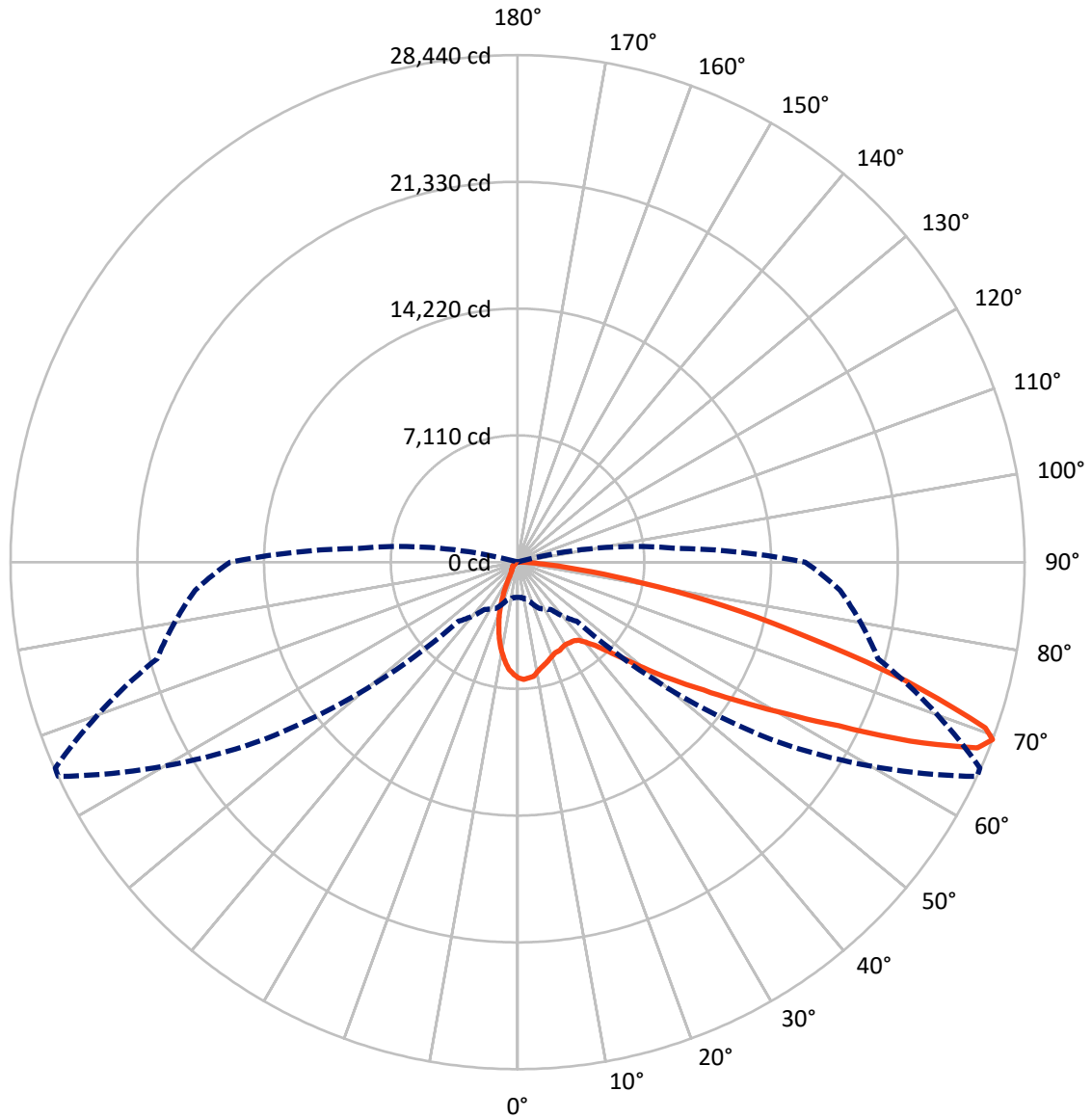
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3123.4	0.0	3123.4
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	22624.9	0.0	22624.9
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	25748.3	0.0	25748.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.2	2.1
10°-20°	1162.3	4.5
20°-30°	1618.2	6.3
30°-40°	2293.2	8.9
40°-50°	3614.0	14.0
50°-60°	5864.3	22.8
60°-70°	6549.2	25.4
70°-80°	3687.9	14.3
80°-90°	427.9	1.7
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°	25748.3	100.0
0°-180°	25748.3	100.0



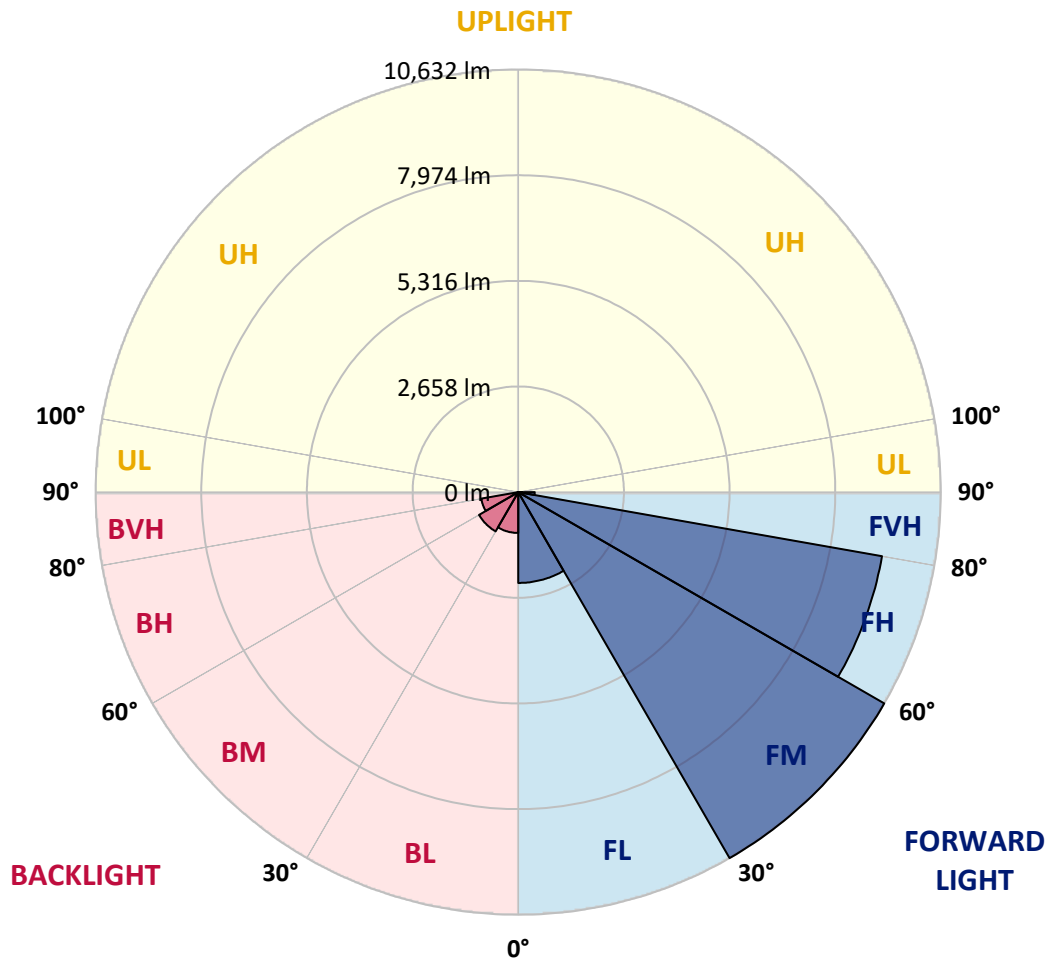
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2284.9	8.9			
FM (30°-60°)	10631.7	41.3			
FH (60°-80°)	9292.1	36.1			G4/12000
FVH (80°-90°)	416.1	1.6			G3/500
BL (0°-30°)	1026.9	4.0	B3/2500		
BM (30°-60°)	1139.7	4.4	B2/2500		
BH (60°-80°)	945.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	11.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7
2.5°	6252.1	6300.7	6314.6	6363.2	6387.5	6491.7	6550.8	6585.5	6568.2	6606.4	6609.8
5°	5807.5	5779.7	5852.6	5904.7	6015.9	6196.5	6380.6	6523.0	6589.0	6651.5	6641.1
7.5°	5331.6	5317.7	5390.7	5508.8	5609.5	5828.3	6123.6	6474.4	6460.5	6613.3	6658.5
10°	5005.1	5019.0	5043.3	5161.4	5310.8	5533.1	5901.3	6227.8	6300.7	6623.7	6714.0
12.5°	4706.4	4730.7	4775.9	4897.5	5071.1	5300.4	5658.1	6040.2	6151.4	6564.7	6745.3
15°	4609.2	4553.6	4643.9	4734.2	4914.8	5119.8	5421.9	5897.8	5946.4	6495.2	6797.4
17.5°	4529.3	4494.6	4536.2	4609.2	4800.2	4966.9	5251.8	5745.0	5835.3	6467.4	6790.5
20°	4553.6	4522.3	4539.7	4595.3	4682.1	4838.4	5102.4	5599.1	5696.3	6338.9	6780.0
22.5°	4623.1	4647.4	4616.1	4630.0	4657.8	4737.7	5022.5	5494.9	5578.2	6314.6	6839.1
25°	4935.7	4894.0	4852.3	4834.9	4671.7	4706.4	4998.2	5487.9	5547.0	6227.8	6790.5
27.5°	5262.2	5227.4	5210.1	5109.3	4887.0	4782.8	5001.7	5390.7	5470.6	6193.0	6731.4
30°	5658.1	5703.3	5633.8	5512.3	5203.1	4946.1	5039.9	5342.1	5453.2	6061.0	6693.2
32.5°	6074.9	6099.3	6134.0	6043.7	5644.2	5192.7	5154.5	5387.2	5394.2	6061.0	6606.4
35°	6547.3	6512.6	6602.9	6609.8	6259.0	5630.3	5373.3	5418.5	5491.4	6033.3	6575.1
37.5°	6953.7	7012.8	7117.0	7283.7	6922.4	6248.6	5713.7	5564.4	5595.6	6161.8	6599.4
40°	7398.3	7457.3	7693.5	7860.3	7655.3	6943.3	6231.2	5904.7	5929.1	6352.8	6724.5
42.5°	7888.0	8002.7	8284.0	8575.8	8520.2	7825.5	6898.1	6404.9	6394.5	6828.7	6981.5
45°	8551.5	8704.3	9009.9	9346.9	9395.5	8836.3	7787.3	7151.7	7186.4	7450.4	7512.9
47.5°	9475.4	9468.4	9767.1	10142.3	10423.6	9885.2	8850.2	8155.5	8152.0	8433.4	8301.4
50°	10368.0	10371.5	10451.4	10885.6	11615.0	11340.6	10166.6	9489.3	9451.1	9590.0	9378.1
52.5°	10781.4	10732.7	10673.7	11198.2	12532.0	13174.5	11833.8	11000.2	10968.9	10885.6	10830.0
55°	10347.2	10364.6	10361.1	10906.4	13014.8	15109.2	13973.4	12663.9	12611.8	12351.3	12427.8
57.5°	8954.4	8898.8	9020.4	9871.3	12462.5	16429.1	17033.5	14761.9	14626.4	13761.5	13587.9
60°	6665.4	6682.8	6783.5	7787.3	11090.5	16707.0	19961.5	17224.5	16641.0	14754.9	14515.3
62.5°	4654.3	4619.6	4657.8	5220.5	7929.7	15595.5	21941.3	20218.5	19655.9	15883.8	15744.8
65°	3331.0	3285.8	3438.6	3782.5	4762.0	11924.1	22222.7	24206.0	23702.3	17686.5	17353.0
67.5°	2396.6	2389.7	2566.8	3192.0	3383.1	6866.9	20138.7	27818.3	27512.6	19826.1	18332.5
69°	1983.3	1986.8	2157.0	2858.6	3230.2	4689.1	17328.7	28440.0	28384.5	20930.6	18148.4
70°	1729.7	1743.6	1941.6	2660.6	3167.7	3855.5	14939.0	27828.7	27773.1	21145.9	17540.6
72.5°	1066.3	1076.7	1337.3	2132.7	3011.4	3146.9	8933.5	22768.0	22959.0	20159.5	15112.7
75°	510.6	514.1	701.6	1542.2	2903.7	2983.6	4786.3	16800.7	17203.7	16276.3	11809.5
77.5°	270.9	270.9	336.9	819.7	2351.5	2806.5	2841.2	11851.2	12184.6	10291.6	6714.0
80°	135.5	138.9	204.9	427.2	1458.8	2750.9	2219.5	7068.3	7248.9	4199.3	2091.0
82.5°	52.1	55.6	97.3	257.0	757.2	2323.7	1948.6	3476.9	3431.7	983.0	510.6
85°	6.9	6.9	34.7	152.8	323.0	1024.6	1608.2	1451.9	1403.2	215.3	246.6
87.5°	0.0	0.0	6.9	45.2	97.3	298.7	621.7	399.4	444.6	59.0	121.6
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°	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7	6491.7
2.5°	6592.5	6519.5	6408.4	6300.7	6186.1	6047.2	5894.3	5838.8	5741.5	5734.6	5790.1
5°	6585.5	6467.4	6272.9	6043.7	5717.2	5470.6	5203.1	5008.6	4859.3	4762.0	4786.3
7.5°	6620.3	6477.9	6140.9	5647.7	5227.4	4737.7	4324.4	4039.5	3779.0	3650.5	3636.6
10°	6564.7	6373.7	5880.4	5189.2	4571.0	3886.7	3282.3	2900.3	2511.3	2368.8	2375.8
12.5°	6595.9	6328.5	5599.1	4716.9	3865.9	2976.7	2254.2	1733.2	1368.5	1250.4	1236.5
15°	6616.8	6231.2	5328.2	4150.7	3084.4	2028.5	1306.0	983.0	868.3	847.5	844.0
17.5°	6536.9	6113.1	4946.1	3591.5	2285.5	1233.0	868.3	802.4	781.5	767.6	760.7
20°	6533.4	6043.7	4616.1	3018.4	1524.8	840.6	750.3	725.9	694.7	684.3	684.3
22.5°	6474.4	5897.8	4220.2	2389.7	972.5	722.5	673.8	635.6	600.9	587.0	583.5
25°	6457.0	5727.6	3848.5	1795.7	739.8	646.0	597.4	541.8	500.2	479.3	468.9
27.5°	6408.4	5581.7	3473.4	1264.3	646.0	576.6	514.1	455.0	406.4	375.1	371.7
30°	6234.7	5428.9	3056.6	875.3	587.0	510.6	441.1	371.7	323.0	302.2	295.2
32.5°	6161.8	5286.5	2601.6	673.8	534.9	451.5	371.7	309.1	270.9	250.1	246.6
35°	6074.9	5078.1	2160.4	587.0	486.3	392.5	312.6	260.5	229.2	211.9	211.9
37.5°	6085.4	4911.4	1747.1	531.4	434.2	336.9	267.5	222.3	194.5	177.1	177.1
40°	6054.1	4779.4	1358.1	482.8	385.5	288.3	225.8	187.6	163.2	145.9	142.4
42.5°	6196.5	4744.6	1024.6	441.1	336.9	246.6	194.5	159.8	135.5	114.6	114.6
45°	6436.2	4800.2	798.9	402.9	288.3	211.9	166.7	132.0	107.7	93.8	90.3
47.5°	7075.3	5019.0	625.2	371.7	246.6	184.1	138.9	107.7	86.8	72.9	69.5
50°	8002.7	5508.8	531.4	326.5	208.4	156.3	114.6	83.4	69.5	55.6	52.1
52.5°	9322.6	6332.0	482.8	288.3	173.7	128.5	90.3	66.0	52.1	41.7	38.2
55°	10760.5	7360.1	437.6	243.1	145.9	104.2	72.9	52.1	38.2	27.8	24.3
57.5°	11882.4	8249.3	399.4	201.5	118.1	83.4	55.6	38.2	27.8	17.4	13.9
60°	13108.5	8874.5	350.8	159.8	97.3	62.5	41.7	27.8	20.8	10.4	10.4
62.5°	14372.8	9607.4	288.3	125.0	76.4	48.6	31.3	20.8	13.9	3.5	3.5
65°	16130.4	10180.5	222.3	97.3	59.0	34.7	24.3	17.4	6.9	0.0	0.0
67.5°	16627.1	9899.1	163.2	76.4	41.7	24.3	17.4	10.4	3.5	0.0	0.0
69°	16130.4	8916.2	142.4	66.0	34.7	20.8	13.9	6.9	3.5	0.0	0.0
70°	15223.8	8152.0	125.0	55.6	31.3	20.8	10.4	6.9	3.5	0.0	0.0
72.5°	12733.4	6252.1	97.3	41.7	24.3	17.4	10.4	6.9	0.0	0.0	0.0
75°	9339.9	3862.4	72.9	31.3	20.8	13.9	10.4	6.9	0.0	0.0	0.0
77.5°	5005.1	1410.2	52.1	20.8	13.9	10.4	10.4	6.9	0.0	0.0	0.0
80°	1372.0	416.8	38.2	13.9	10.4	6.9	6.9	3.5	0.0	0.0	0.0
82.5°	375.1	107.7	24.3	13.9	10.4	6.9	3.5	0.0	0.0	0.0	0.0
85°	201.5	41.7	13.9	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	104.2	13.9	10.4	6.9	6.9	3.5	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)