

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: P483958

Luminaire Tested: **IFLD-L-SA8A-730-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483958  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-730-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

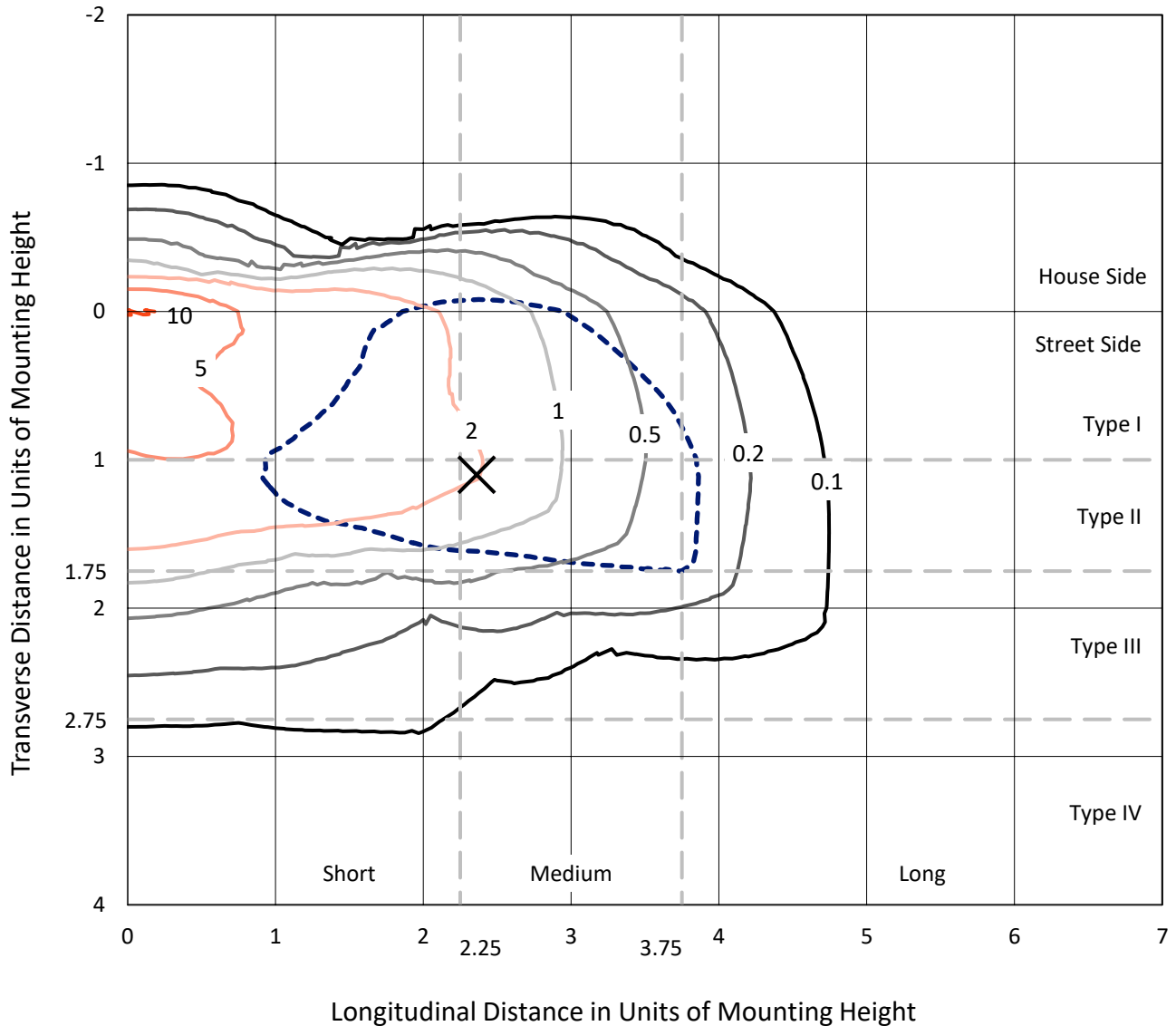
Lumens per Lamp: N/A  
Luminaire Lumens: 25674.1 lumens  
Efficiency: N/A  
Efficacy: 103.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8  
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

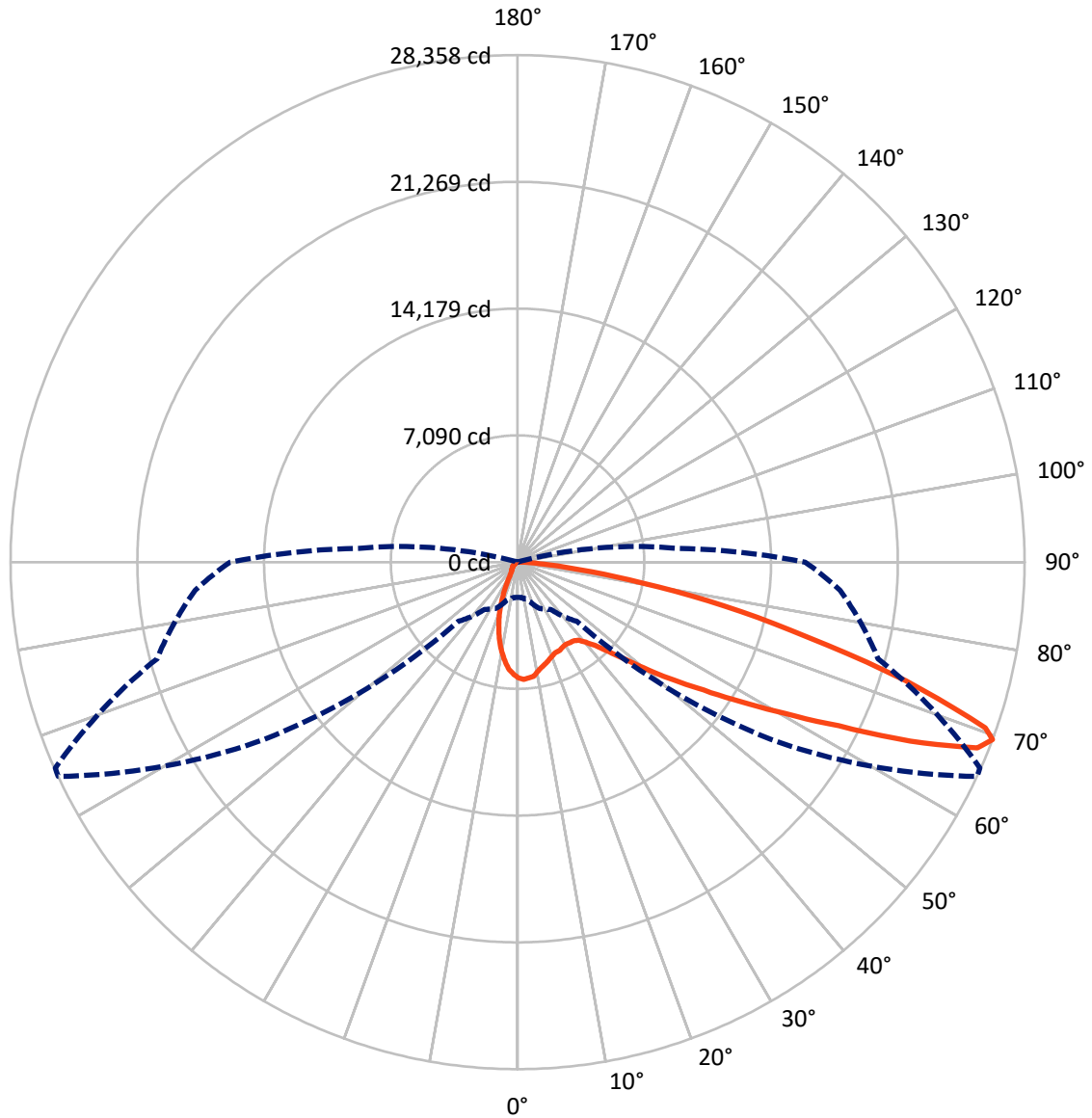
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	3114.4	0.0	3114.4
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	22559.6	0.0	22559.6
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	25674.1	0.0	25674.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.7	2.1
10°-20°	1159.0	4.5
20°-30°	1613.6	6.3
30°-40°	2286.6	8.9
40°-50°	3603.6	14.0
50°-60°	5847.3	22.8
60°-70°	6530.3	25.4
70°-80°	3677.3	14.3
80°-90°	426.7	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°	25674.1	100.0
0°-180°	25674.1	100.0



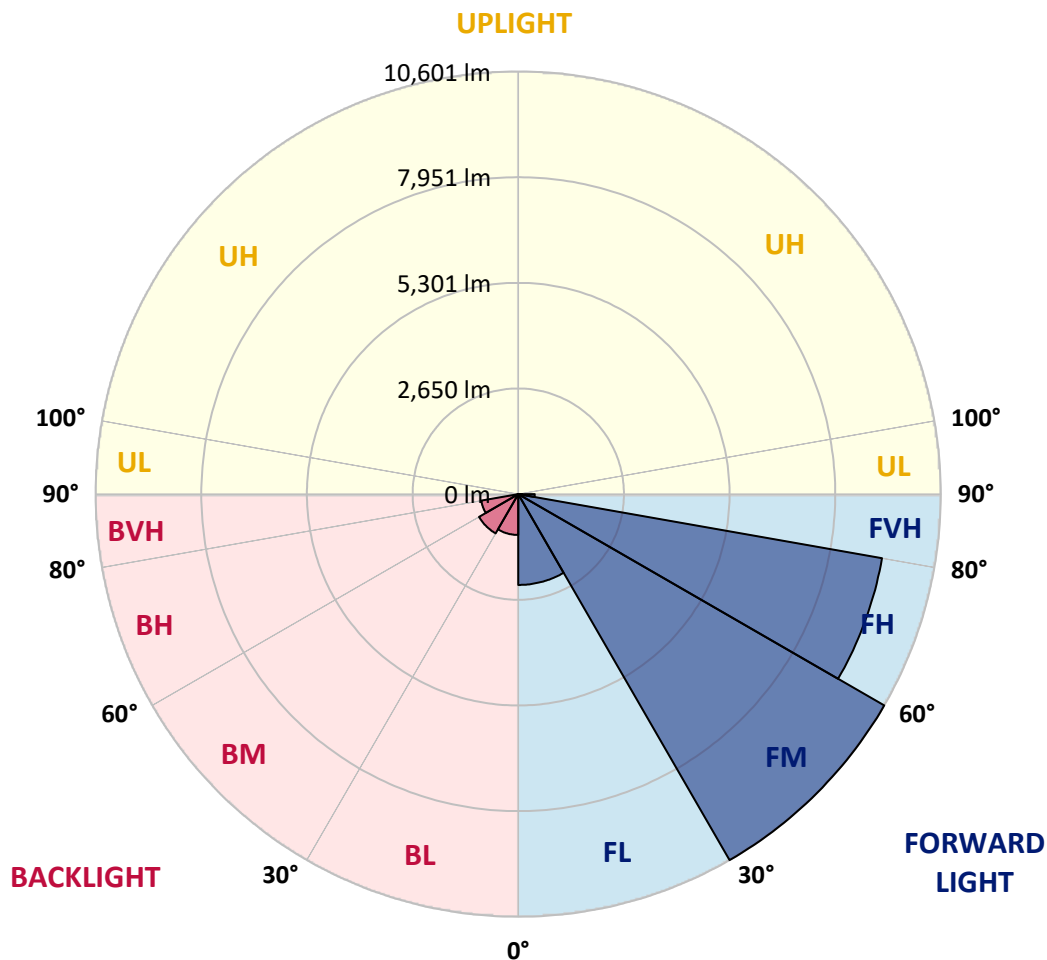
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2278.3	8.9			
FM (30°-60°)	10601.1	41.3			
FH (60°-80°)	9265.3	36.1			G4/12000
FVH (80°-90°)	414.9	1.6			G3/500
BL (0°-30°)	1023.9	4.0	B3/2500		
BM (30°-60°)	1136.4	4.4	B2/2500		
BH (60°-80°)	942.3	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°	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0
2.5°	6234.1	6282.5	6296.4	6344.9	6369.1	6473.0	6531.9	6566.5	6549.2	6587.3	6590.8
5°	5790.7	5763.0	5835.8	5887.7	5998.5	6178.6	6362.2	6504.2	6570.0	6632.3	6622.0
7.5°	5316.3	5302.4	5375.1	5492.9	5593.3	5811.5	6105.9	6455.7	6441.9	6594.2	6639.3
10°	4990.7	5004.6	5028.8	5146.6	5295.5	5517.1	5884.3	6209.8	6282.5	6604.6	6694.7
12.5°	4692.9	4717.1	4762.1	4883.3	5056.5	5285.1	5641.8	6022.8	6133.6	6545.8	6725.9
15°	4595.9	4540.5	4630.5	4720.6	4900.7	5105.0	5406.3	5880.8	5929.3	6476.5	6777.8
17.5°	4516.2	4481.6	4523.2	4595.9	4786.4	4952.6	5236.6	5728.4	5818.5	6448.8	6770.9
20°	4540.5	4509.3	4526.6	4582.0	4668.6	4824.5	5087.7	5582.9	5679.9	6320.6	6760.5
22.5°	4609.7	4634.0	4602.8	4616.7	4644.4	4724.0	5008.0	5479.0	5562.2	6296.4	6819.4
25°	4921.4	4879.9	4838.3	4821.0	4658.2	4692.9	4983.8	5472.1	5531.0	6209.8	6770.9
27.5°	5247.0	5212.4	5195.0	5094.6	4873.0	4769.1	4987.2	5375.1	5454.8	6175.2	6712.0
30°	5641.8	5686.8	5617.6	5496.4	5188.1	4931.8	5025.3	5326.7	5437.5	6043.6	6673.9
32.5°	6057.4	6081.7	6116.3	6026.3	5628.0	5177.7	5139.6	5371.7	5378.6	6043.6	6587.3
35°	6528.4	6493.8	6583.9	6590.8	6241.0	5614.1	5357.8	5402.9	5475.6	6015.9	6556.2
37.5°	6933.7	6992.5	7096.4	7262.7	6902.5	6230.6	5697.2	5548.3	5579.5	6144.0	6580.4
40°	7377.0	7435.8	7671.4	7837.6	7633.3	6923.3	6213.3	5887.7	5912.0	6334.5	6705.1
42.5°	7865.3	7979.6	8260.1	8551.0	8495.6	7803.0	6878.2	6386.4	6376.1	6809.0	6961.4
45°	8526.8	8679.2	8984.0	9319.9	9368.4	8810.8	7764.9	7131.1	7165.7	7428.9	7491.3
47.5°	9448.1	9441.1	9739.0	10113.0	10393.6	9856.7	8824.7	8132.0	8128.5	8409.1	8277.4
50°	10338.1	10341.6	10421.3	10854.2	11581.5	11307.9	10137.3	9461.9	9423.8	9562.4	9351.1
52.5°	10750.3	10701.8	10642.9	11165.9	12495.8	13136.5	11799.7	10968.5	10937.3	10854.2	10798.8
55°	10317.4	10334.7	10331.2	10875.0	12977.2	15065.6	13933.1	12627.4	12575.5	12315.7	12391.9
57.5°	8928.6	8873.1	8994.4	9842.9	12426.6	16381.7	16984.3	14719.3	14584.2	13721.9	13548.7
60°	6646.2	6663.5	6764.0	7764.9	11058.5	16658.8	19904.0	17174.8	16593.0	14712.4	14473.4
62.5°	4640.9	4606.3	4644.4	5205.4	7906.9	15550.5	21878.1	20160.3	19599.2	15838.0	15699.4
65°	3321.4	3276.3	3428.7	3771.6	4748.3	11889.7	22158.6	24136.2	23634.0	17635.5	17303.0
67.5°	2389.7	2382.8	2559.4	3182.8	3373.3	6847.1	20080.6	27738.1	27433.3	19768.9	18279.6
69°	1977.6	1981.0	2150.8	2850.3	3220.9	4675.5	17278.7	28358.0	28302.6	20870.2	18096.1
70°	1724.8	1738.6	1936.0	2652.9	3158.6	3844.3	14895.9	27748.5	27693.1	21085.0	17490.0
72.5°	1063.3	1073.6	1333.4	2126.5	3002.7	3137.8	8907.8	22702.4	22892.8	20101.4	15069.1
75°	509.1	512.6	699.6	1537.7	2895.4	2975.0	4772.5	16752.3	17154.1	16229.3	11775.4
77.5°	270.1	270.1	335.9	817.4	2344.7	2798.4	2833.0	11817.0	12149.5	10262.0	6694.7
80°	135.1	138.5	204.3	426.0	1454.6	2743.0	2213.1	7047.9	7228.0	4187.2	2084.9
82.5°	52.0	55.4	97.0	256.3	755.0	2317.0	1942.9	3466.8	3421.8	980.1	509.1
85°	6.9	6.9	34.6	152.4	322.1	1021.7	1603.5	1447.7	1399.2	214.7	245.9
87.5°	0.0	0.0	6.9	45.0	97.0	297.8	619.9	398.3	443.3	58.9	121.2
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°	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0	6473.0
2.5°	6573.5	6500.7	6389.9	6282.5	6168.3	6029.7	5877.3	5821.9	5724.9	5718.0	5773.4
5°	6566.5	6448.8	6254.8	6026.3	5700.7	5454.8	5188.1	4994.2	4845.2	4748.3	4772.5
7.5°	6601.2	6459.2	6123.2	5631.4	5212.4	4724.0	4311.9	4027.9	3768.1	3640.0	3626.1
10°	6545.8	6355.3	5863.5	5174.3	4557.8	3875.5	3272.9	2891.9	2504.0	2362.0	2368.9
12.5°	6576.9	6310.3	5582.9	4703.3	3854.7	2968.1	2247.7	1728.2	1364.6	1246.8	1233.0
15°	6597.7	6213.3	5312.8	4138.7	3075.5	2022.6	1302.2	980.1	865.8	845.1	841.6
17.5°	6518.1	6095.5	4931.8	3581.1	2278.9	1229.5	865.8	800.0	779.3	765.4	758.5
20°	6514.6	6026.3	4602.8	3009.7	1520.4	838.1	748.1	723.8	692.7	682.3	682.3
22.5°	6455.7	5880.8	4208.0	2382.8	969.7	720.4	671.9	633.8	599.2	585.3	581.8
25°	6438.4	5711.1	3837.4	1790.6	737.7	644.2	595.7	540.3	498.7	477.9	467.6
27.5°	6389.9	5565.6	3463.4	1260.7	644.2	574.9	512.6	453.7	405.2	374.0	370.6
30°	6216.7	5413.2	3047.8	872.8	585.3	509.1	439.8	370.6	322.1	301.3	294.4
32.5°	6144.0	5271.2	2594.1	671.9	533.4	450.2	370.6	308.2	270.1	249.4	245.9
35°	6057.4	5063.4	2154.2	585.3	484.9	391.4	311.7	259.8	228.6	211.3	211.3
37.5°	6067.8	4897.2	1742.1	529.9	432.9	335.9	266.7	221.7	193.9	176.6	176.6
40°	6036.6	4765.6	1354.2	481.4	384.4	287.5	225.1	187.0	162.8	145.5	142.0
42.5°	6178.6	4731.0	1021.7	439.8	335.9	245.9	193.9	159.3	135.1	114.3	114.3
45°	6417.6	4786.4	796.6	401.8	287.5	211.3	166.2	131.6	107.4	93.5	90.0
47.5°	7054.9	5004.6	623.4	370.6	245.9	183.6	138.5	107.4	86.6	72.7	69.3
50°	7979.6	5492.9	529.9	325.6	207.8	155.9	114.3	83.1	69.3	55.4	52.0
52.5°	9295.7	6313.7	481.4	287.5	173.2	128.1	90.0	65.8	52.0	41.6	38.1
55°	10729.5	7338.9	436.4	242.4	145.5	103.9	72.7	52.0	38.1	27.7	24.2
57.5°	11848.2	8225.5	398.3	200.9	117.8	83.1	55.4	38.1	27.7	17.3	13.9
60°	13070.7	8848.9	349.8	159.3	97.0	62.3	41.6	27.7	20.8	10.4	10.4
62.5°	14331.4	9579.7	287.5	124.7	76.2	48.5	31.2	20.8	13.9	3.5	3.5
65°	16083.9	10151.1	221.7	97.0	58.9	34.6	24.2	17.3	6.9	0.0	0.0
67.5°	16579.1	9870.6	162.8	76.2	41.6	24.2	17.3	10.4	3.5	0.0	0.0
69°	16083.9	8890.5	142.0	65.8	34.6	20.8	13.9	6.9	3.5	0.0	0.0
70°	15179.9	8128.5	124.7	55.4	31.2	20.8	10.4	6.9	3.5	0.0	0.0
72.5°	12696.7	6234.1	97.0	41.6	24.2	17.3	10.4	6.9	0.0	0.0	0.0
75°	9313.0	3851.3	72.7	31.2	20.8	13.9	10.4	6.9	0.0	0.0	0.0
77.5°	4990.7	1406.1	52.0	20.8	13.9	10.4	10.4	6.9	0.0	0.0	0.0
80°	1368.0	415.6	38.1	13.9	10.4	6.9	6.9	3.5	0.0	0.0	0.0
82.5°	374.0	107.4	24.2	13.9	10.4	6.9	3.5	0.0	0.0	0.0	0.0
85°	200.9	41.6	13.9	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	103.9	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)