

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: P484193

Luminaire Tested: **IFLD-L-SA8B-830-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484193  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-830-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

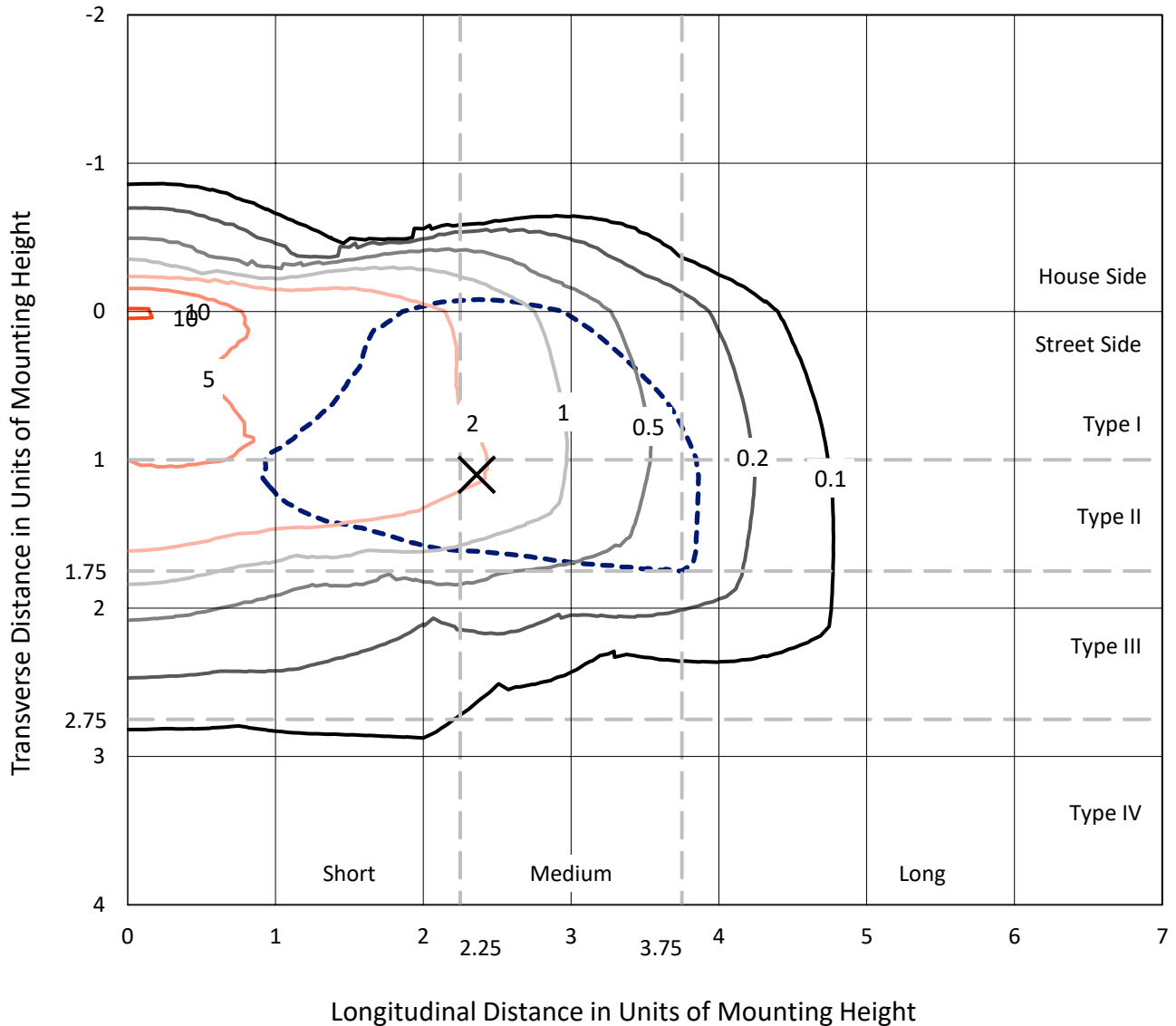
Lumens per Lamp: N/A  
Luminaire Lumens: 26616.8 lumens  
Efficiency: N/A  
Efficacy: 83.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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

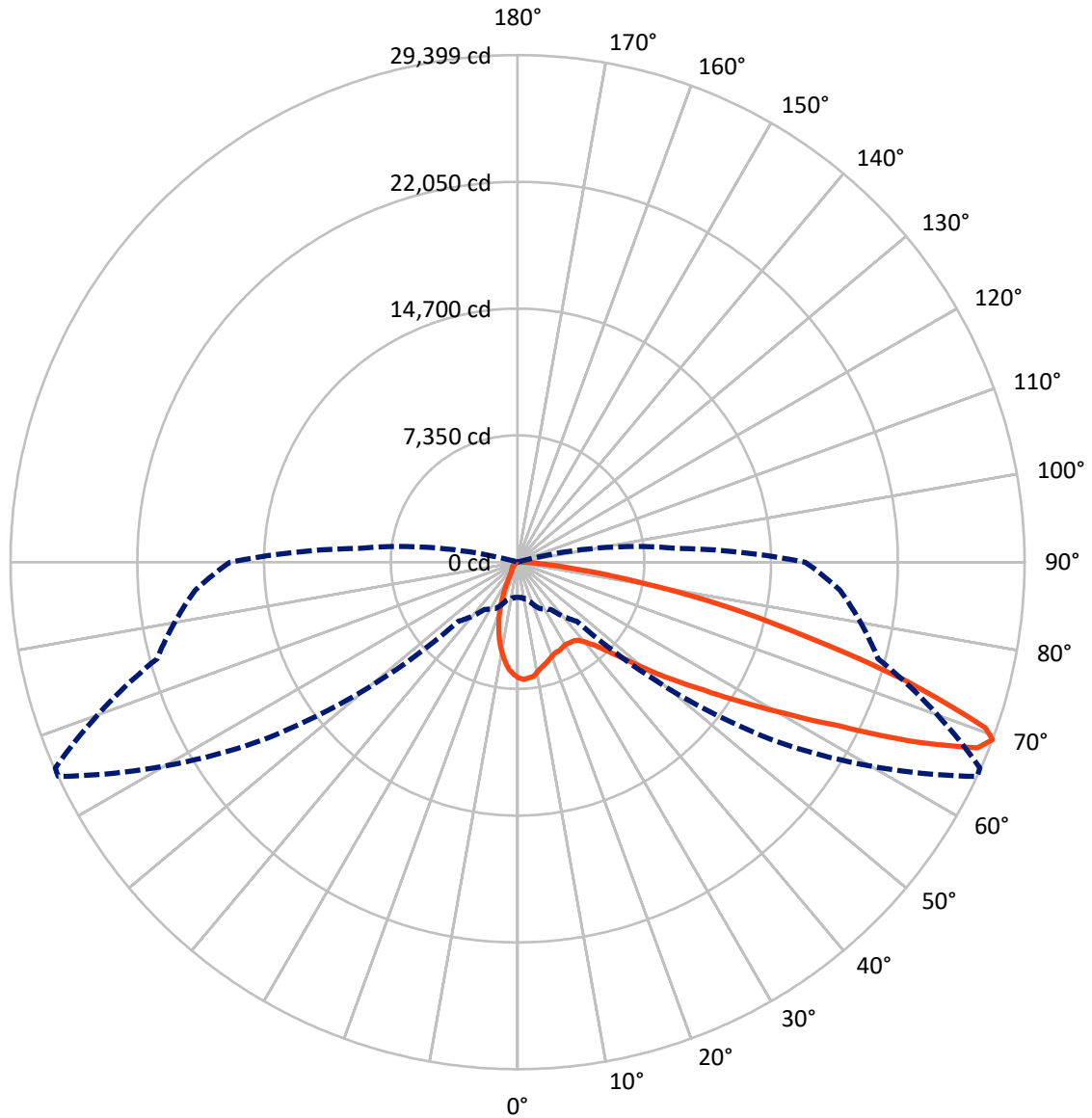
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	3228.8	0.0	3228.8
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	23388.0	0.0	23388.0
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	26616.8	0.0	26616.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.2	2.1
10°-20°	1201.5	4.5
20°-30°	1672.8	6.3
30°-40°	2370.5	8.9
40°-50°	3735.9	14.0
50°-60°	6062.1	22.8
60°-70°	6770.1	25.4
70°-80°	3812.3	14.3
80°-90°	442.4	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°	26616.8	100.0
0°-180°	26616.8	100.0



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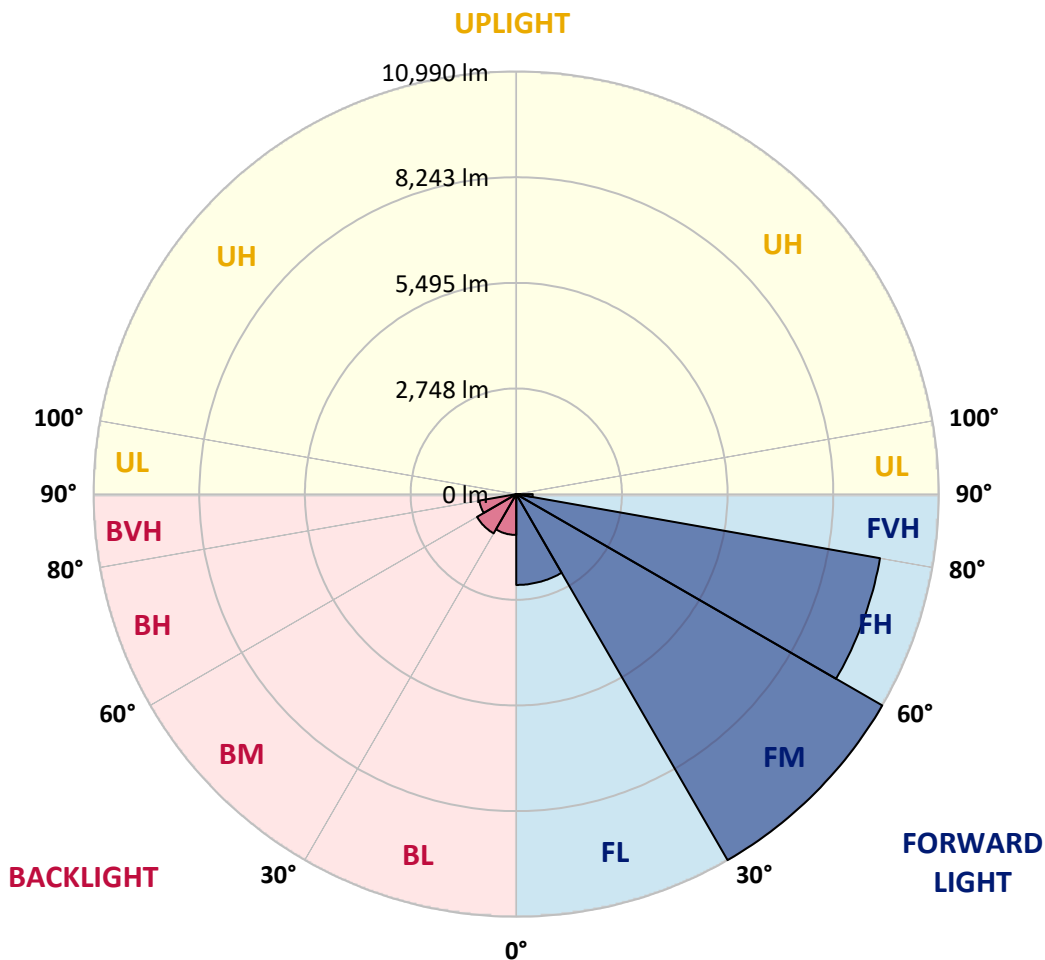
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2362.0	8.9			
FM (30°-60°)	10990.3	41.3			
FH (60°-80°)	9605.6	36.1			G4/12000
FVH (80°-90°)	430.2	1.6			G3/500
BL (0°-30°)	1061.5	4.0	B3/2500		
BM (30°-60°)	1178.2	4.4	B2/2500		
BH (60°-80°)	976.9	3.7	B2/1000		G2/1000
BVH (80°-90°)	12.2	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°	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7
2.5°	6463.0	6513.2	6527.6	6577.9	6603.0	6710.7	6771.8	6807.7	6789.7	6829.2	6832.8
5°	6003.4	5974.7	6050.1	6103.9	6218.8	6405.5	6595.8	6743.0	6811.3	6875.9	6865.1
7.5°	5511.5	5497.1	5572.5	5694.6	5798.7	6024.9	6330.1	6692.8	6678.4	6836.4	6883.1
10°	5174.0	5188.3	5213.5	5335.5	5489.9	5719.7	6100.3	6437.8	6513.2	6847.2	6940.5
12.5°	4865.2	4890.3	4937.0	5062.7	5242.2	5479.2	5849.0	6244.0	6358.8	6786.1	6972.8
15°	4764.6	4707.2	4800.6	4893.9	5080.6	5292.5	5604.8	6096.7	6147.0	6714.3	7026.7
17.5°	4682.1	4646.2	4689.2	4764.6	4962.1	5134.5	5428.9	5938.8	6032.1	6685.6	7019.5
20°	4707.2	4674.9	4692.8	4750.3	4840.0	5001.6	5274.5	5788.0	5888.5	6552.7	7008.7
22.5°	4779.0	4804.1	4771.8	4786.2	4814.9	4897.5	5191.9	5680.2	5766.4	6527.6	7069.8
25°	5102.2	5059.1	5016.0	4998.0	4829.3	4865.2	5166.8	5673.1	5734.1	6437.8	7019.5
27.5°	5439.7	5403.8	5385.8	5281.7	5051.9	4944.2	5170.4	5572.5	5655.1	6401.9	6958.5
30°	5849.0	5895.7	5823.9	5698.2	5378.6	5112.9	5209.9	5522.3	5637.2	6265.5	6919.0
32.5°	6279.9	6305.0	6340.9	6247.5	5834.6	5367.9	5328.4	5568.9	5576.1	6265.5	6829.2
35°	6768.2	6732.3	6825.6	6832.8	6470.2	5820.3	5554.6	5601.2	5676.6	6236.8	6796.9
37.5°	7188.3	7249.3	7357.0	7529.4	7155.9	6459.4	5906.4	5752.0	5784.4	6369.6	6822.0
40°	7647.9	7708.9	7953.0	8125.4	7913.6	7177.5	6441.4	6103.9	6129.1	6567.1	6951.3
42.5°	8154.1	8272.6	8563.4	8865.0	8807.6	8089.5	7130.8	6621.0	6610.2	7059.0	7217.0
45°	8839.9	8997.9	9313.9	9662.1	9712.4	9134.3	8050.0	7392.9	7428.8	7701.7	7766.3
47.5°	9795.0	9787.8	10096.6	10484.4	10775.2	10218.7	9148.7	8430.6	8427.0	8717.8	8581.4
50°	10717.8	10721.4	10803.9	11252.8	12006.8	11723.1	10509.5	9809.4	9769.9	9913.5	9694.5
52.5°	11145.0	11094.8	11033.7	11575.9	12954.7	13618.9	12233.0	11371.2	11338.9	11252.8	11195.3
55°	10696.2	10714.2	10710.6	11274.3	13453.8	15618.9	14444.7	13091.1	13037.3	12768.0	12847.0
57.5°	9256.4	9199.0	9324.6	10204.3	12882.9	16983.3	17608.0	15259.8	15119.8	14225.7	14046.2
60°	6890.2	6908.2	7012.3	8050.0	11464.6	17270.5	20634.8	17805.5	17202.3	15252.6	15004.9
62.5°	4811.3	4775.4	4814.9	5396.6	8197.2	16121.5	22681.5	20900.5	20318.9	16419.5	16275.9
65°	3443.3	3396.7	3554.6	3910.1	4922.6	12326.3	22972.3	25022.5	24501.9	18283.0	17938.3
67.5°	2477.5	2470.3	2653.4	3299.7	3497.2	7098.5	20818.0	28756.6	28440.7	20494.8	18950.9
69°	2050.2	2053.8	2229.7	2955.0	3339.2	4847.2	17913.2	29399.4	29341.9	21636.6	18760.6
70°	1788.1	1802.5	2007.1	2750.4	3274.6	3985.5	15442.9	28767.4	28710.0	21859.2	18132.2
72.5°	1102.3	1113.1	1382.4	2204.6	3113.0	3253.0	9234.9	23536.0	23733.5	20839.5	15622.4
75°	527.8	531.4	725.3	1594.2	3001.7	3084.3	4947.8	17367.4	17784.0	16825.3	12207.8
77.5°	280.1	280.1	348.3	847.4	2430.8	2901.2	2937.1	12250.9	12595.6	10638.8	6940.5
80°	140.0	143.6	211.8	441.6	1508.0	2843.7	2294.4	7306.8	7493.5	4341.0	2161.5
82.5°	53.9	57.4	100.5	265.7	782.7	2402.1	2014.3	3594.1	3547.5	1016.1	527.8
85°	7.2	7.2	35.9	158.0	333.9	1059.2	1662.4	1500.8	1450.6	222.6	254.9
87.5°	0.0	0.0	7.2	46.7	100.5	308.8	642.7	412.9	459.6	61.0	125.7
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°	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7	6710.7
2.5°	6814.8	6739.4	6624.5	6513.2	6394.8	6251.1	6093.1	6035.7	5935.2	5928.0	5985.4
5°	6807.7	6685.6	6484.5	6247.5	5910.0	5655.1	5378.6	5177.6	5023.2	4922.6	4947.8
7.5°	6843.6	6696.4	6348.1	5838.2	5403.8	4897.5	4470.2	4175.8	3906.5	3773.7	3759.3
10°	6786.1	6588.6	6078.8	5364.3	4725.2	4017.8	3393.1	2998.1	2596.0	2448.7	2455.9
12.5°	6818.4	6542.0	5788.0	4876.0	3996.3	3077.1	2330.3	1791.7	1414.7	1292.6	1278.2
15°	6840.0	6441.4	5507.9	4290.7	3188.4	2096.9	1350.0	1016.1	897.6	876.1	872.5
17.5°	6757.4	6319.4	5112.9	3712.6	2362.6	1274.6	897.6	829.4	807.9	793.5	786.3
20°	6753.8	6247.5	4771.8	3120.2	1576.2	868.9	775.6	750.4	718.1	707.3	707.3
22.5°	6692.8	6096.7	4362.5	2470.3	1005.4	746.8	696.6	657.1	621.2	606.8	603.2
25°	6674.8	5920.8	3978.3	1856.3	764.8	667.8	617.6	560.1	517.0	495.5	484.7
27.5°	6624.5	5770.0	3590.5	1307.0	667.8	596.0	531.4	470.4	420.1	387.8	384.2
30°	6445.0	5612.0	3159.7	904.8	606.8	527.8	456.0	384.2	333.9	312.4	305.2
32.5°	6369.6	5464.8	2689.3	696.6	552.9	466.8	384.2	319.6	280.1	258.5	254.9
35°	6279.9	5249.4	2233.3	606.8	502.7	405.7	323.1	269.3	237.0	219.0	219.0
37.5°	6290.6	5077.0	1806.0	549.4	448.8	348.3	276.5	229.8	201.1	183.1	183.1
40°	6258.3	4940.6	1403.9	499.1	398.6	298.0	233.4	193.9	168.8	150.8	147.2
42.5°	6405.5	4904.7	1059.2	456.0	348.3	254.9	201.1	165.2	140.0	118.5	118.5
45°	6653.3	4962.1	825.8	416.5	298.0	219.0	172.3	136.4	111.3	96.9	93.4
47.5°	7313.9	5188.3	646.3	384.2	254.9	190.3	143.6	111.3	89.8	75.4	71.8
50°	8272.6	5694.6	549.4	337.5	215.4	161.6	118.5	86.2	71.8	57.4	53.9
52.5°	9637.0	6545.6	499.1	298.0	179.5	132.9	93.4	68.2	53.9	43.1	39.5
55°	11123.5	7608.4	452.4	251.3	150.8	107.7	75.4	53.9	39.5	28.7	25.1
57.5°	12283.2	8527.5	412.9	208.3	122.1	86.2	57.4	39.5	28.7	18.0	14.4
60°	13550.7	9173.8	362.6	165.2	100.5	64.6	43.1	28.7	21.5	10.8	10.8
62.5°	14857.7	9931.4	298.0	129.3	79.0	50.3	32.3	21.5	14.4	3.6	3.6
65°	16674.5	10523.9	229.8	100.5	61.0	35.9	25.1	18.0	7.2	0.0	0.0
67.5°	17187.9	10233.0	168.8	79.0	43.1	25.1	18.0	10.8	3.6	0.0	0.0
69°	16674.5	9216.9	147.2	68.2	35.9	21.5	14.4	7.2	3.6	0.0	0.0
70°	15737.3	8427.0	129.3	57.4	32.3	21.5	10.8	7.2	3.6	0.0	0.0
72.5°	13162.9	6463.0	100.5	43.1	25.1	18.0	10.8	7.2	0.0	0.0	0.0
75°	9655.0	3992.7	75.4	32.3	21.5	14.4	10.8	7.2	0.0	0.0	0.0
77.5°	5174.0	1457.8	53.9	21.5	14.4	10.8	10.8	7.2	0.0	0.0	0.0
80°	1418.3	430.9	39.5	14.4	10.8	7.2	7.2	3.6	0.0	0.0	0.0
82.5°	387.8	111.3	25.1	14.4	10.8	7.2	3.6	0.0	0.0	0.0	0.0
85°	208.3	43.1	14.4	10.8	7.2	3.6	0.0	0.0	0.0	0.0	0.0
87.5°	107.7	14.4	10.8	7.2	7.2	3.6	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)