

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: P483920

Luminaire Tested: **IFLD-L-SA8B-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483920
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

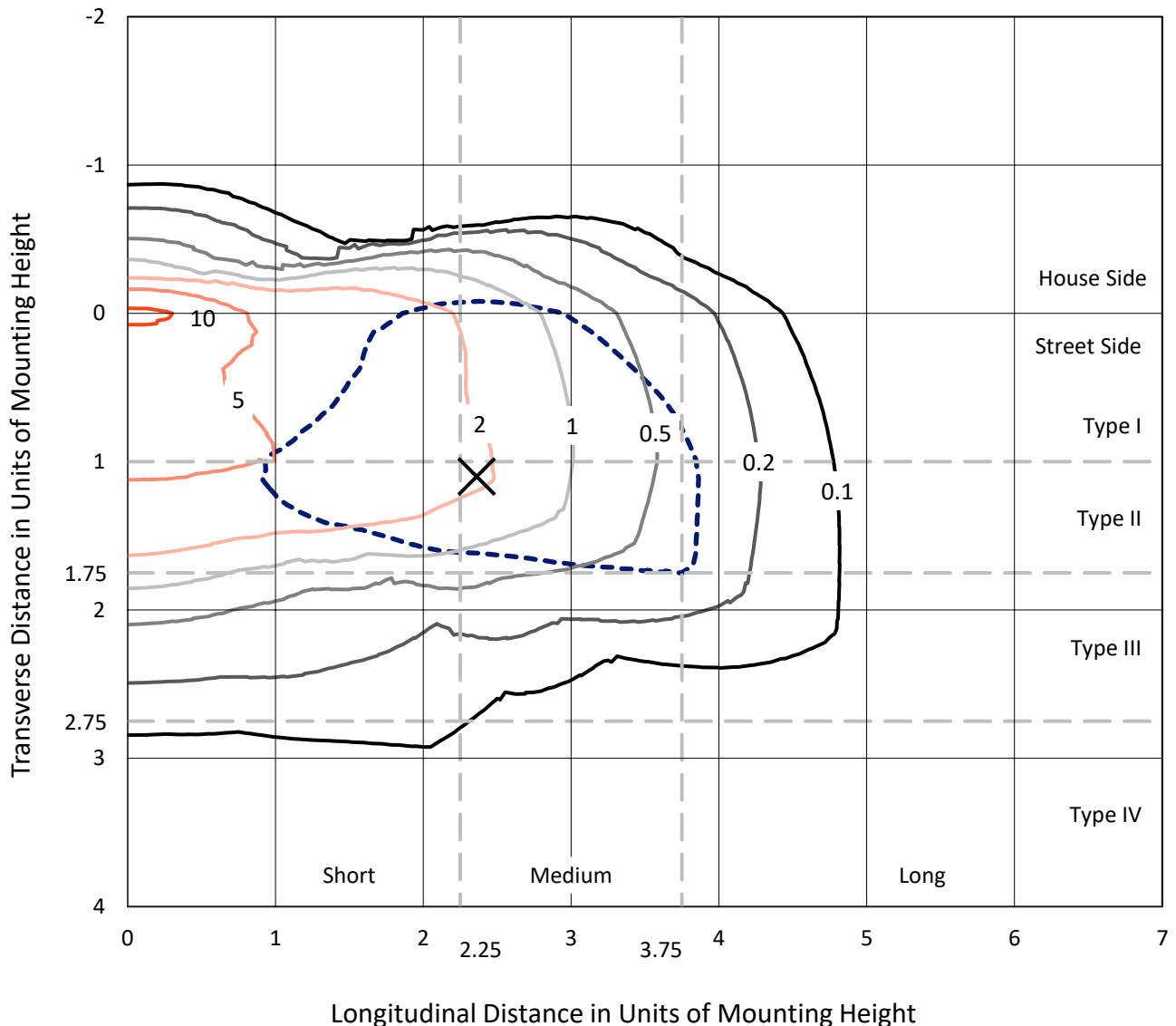
Lumens per Lamp: N/A
Luminaire Lumens: 28013.7 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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

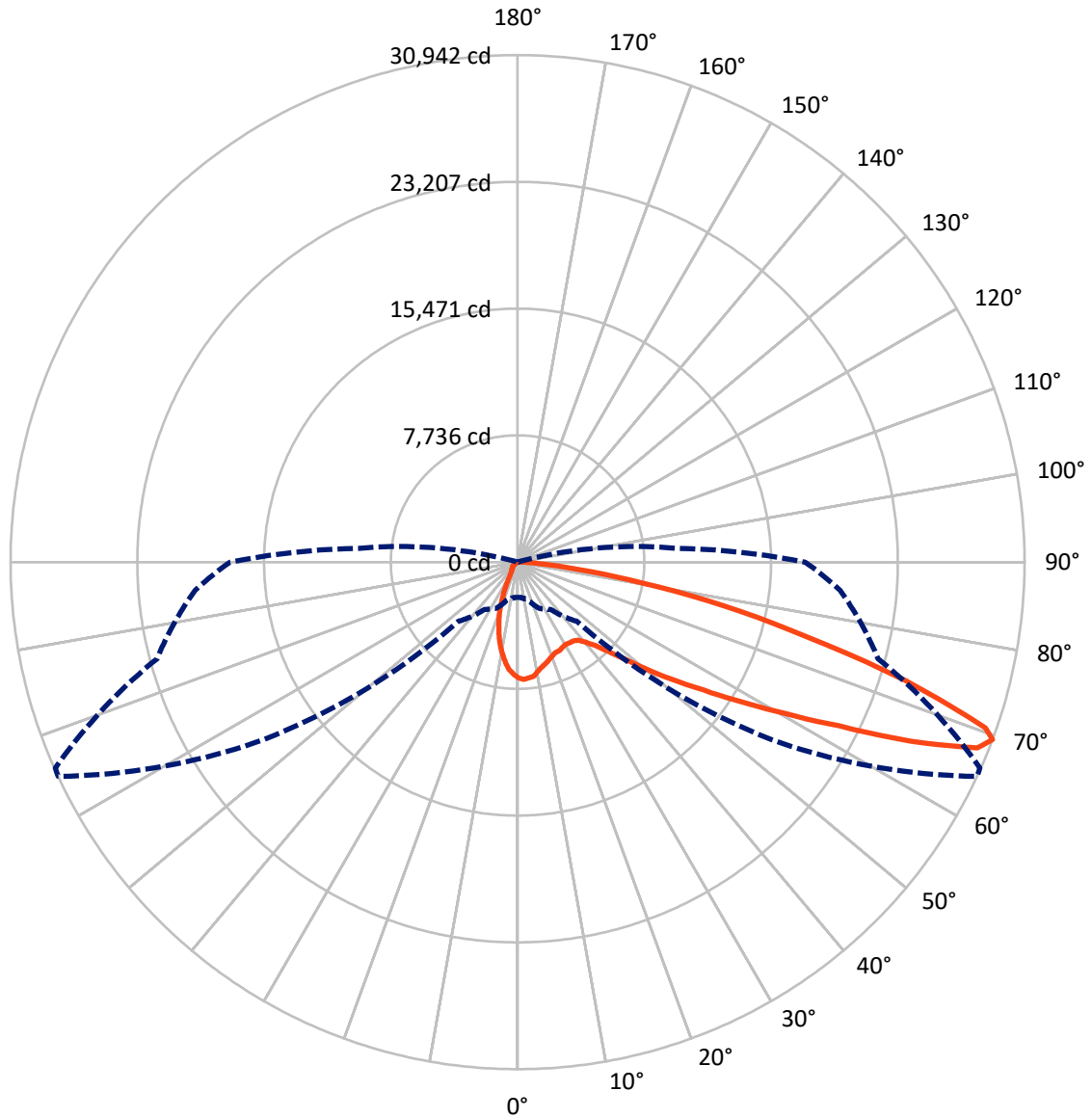
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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
House Side	Lumens	3398.2	0.0	3398.2
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	24615.4	0.0	24615.4
	% Fixture	87.9	0.0	87.9
Total	Lumens	28013.7	0.0	28013.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.0	2.1
10°-20°	1264.6	4.5
20°-30°	1760.6	6.3
30°-40°	2495.0	8.9
40°-50°	3931.9	14.0
50°-60°	6380.2	22.8
60°-70°	7125.4	25.4
70°-80°	4012.4	14.3
80°-90°	465.6	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°	28013.7	100.0
0°-180°	28013.7	100.0

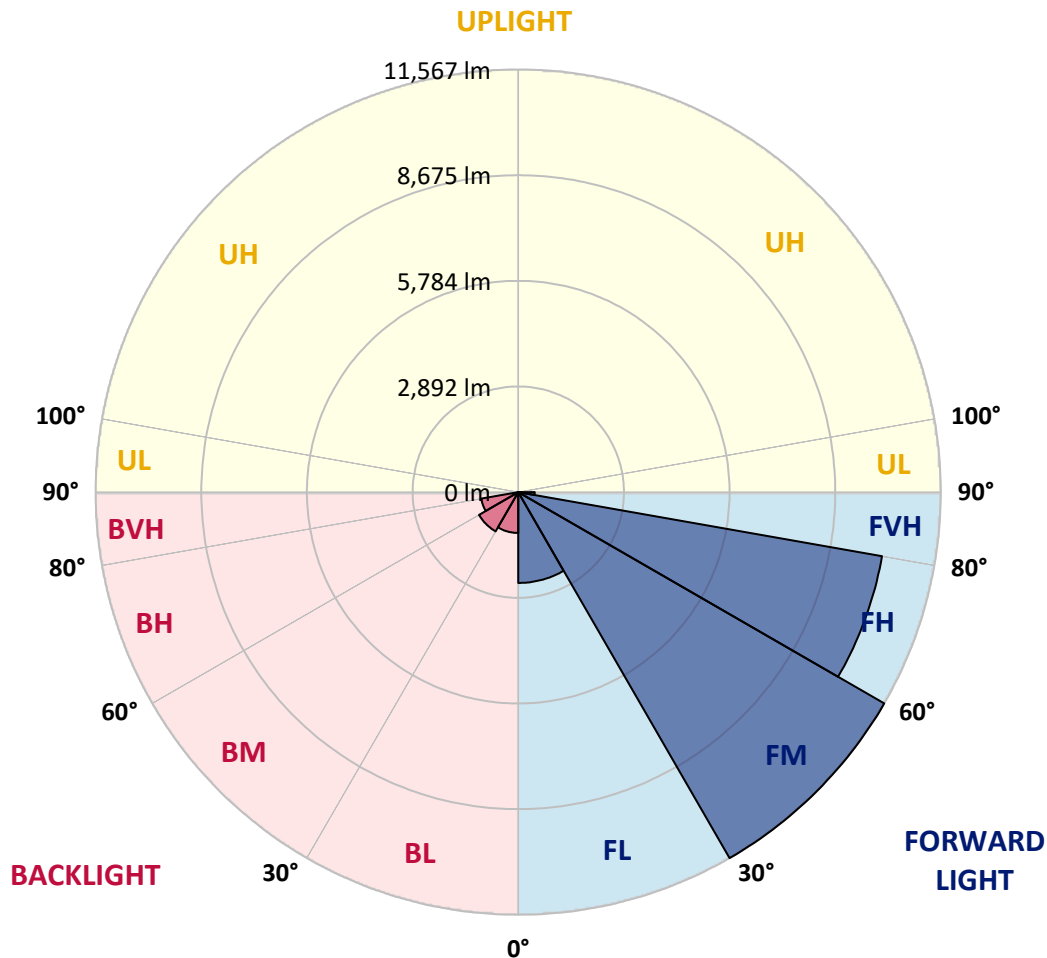


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2485.9	8.9			
FM (30°-60°)	11567.1	41.3			
FH (60°-80°)	10109.6	36.1			G4/12000
FVH (80°-90°)	452.7	1.6			G3/500
BL (0°-30°)	1117.2	4.0	B3/2500		
BM (30°-60°)	1240.0	4.4	B2/2500		
BH (60°-80°)	1028.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	12.8	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°	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9
2.5°	6802.1	6855.1	6870.2	6923.1	6949.5	7062.9	7127.1	7164.9	7146.0	7187.6	7191.4
5°	6318.4	6288.2	6367.6	6424.2	6545.2	6741.7	6942.0	7096.9	7168.7	7236.7	7225.4
7.5°	5800.7	5785.6	5865.0	5993.4	6103.0	6341.1	6662.3	7044.0	7028.9	7195.2	7244.3
10°	5445.5	5460.6	5487.1	5615.5	5778.0	6019.9	6420.5	6775.7	6855.1	7206.5	7304.7
12.5°	5120.5	5147.0	5196.1	5328.3	5517.3	5766.7	6155.9	6571.6	6692.6	7142.3	7338.8
15°	5014.7	4954.2	5052.5	5150.7	5347.2	5570.2	5899.0	6416.7	6469.6	7066.7	7395.4
17.5°	4927.8	4890.0	4935.3	5014.7	5222.5	5403.9	5713.8	6250.4	6348.7	7036.4	7387.9
20°	4954.2	4920.2	4939.1	4999.6	5094.1	5264.1	5551.3	6091.7	6197.5	6896.6	7376.6
22.5°	5029.8	5056.3	5022.3	5037.4	5067.6	5154.5	5464.4	5978.3	6069.0	6870.2	7440.8
25°	5369.9	5324.6	5279.2	5260.3	5082.7	5120.5	5437.9	5970.8	6035.0	6775.7	7387.9
27.5°	5725.1	5687.4	5668.5	5558.9	5317.0	5203.6	5441.7	5865.0	5951.9	6737.9	7323.6
30°	6155.9	6205.1	6129.5	5997.2	5660.9	5381.3	5483.3	5812.1	5933.0	6594.3	7282.1
32.5°	6609.4	6635.9	6673.7	6575.4	6140.8	5649.6	5608.0	5861.2	5868.7	6594.3	7187.6
35°	7123.4	7085.6	7183.8	7191.4	6809.7	6125.7	5846.1	5895.2	5974.6	6564.1	7153.6
37.5°	7565.5	7629.7	7743.1	7924.5	7531.5	6798.4	6216.4	6053.9	6087.9	6703.9	7180.0
40°	8049.2	8113.4	8370.4	8551.8	8328.9	7554.2	6779.5	6424.2	6450.7	6911.7	7316.1
42.5°	8582.0	8706.7	9012.8	9330.3	9269.8	8514.0	7505.0	6968.4	6957.1	7429.5	7595.7
45°	9303.8	9470.1	9802.6	10169.2	10222.1	9613.7	8472.5	7780.9	7818.7	8105.9	8173.9
47.5°	10309.0	10301.5	10626.5	11034.6	11340.7	10754.9	9628.8	8873.0	8869.2	9175.3	9031.7
50°	11280.2	11284.0	11370.9	11843.3	12636.9	12338.3	11061.0	10324.1	10282.6	10433.7	10203.2
52.5°	11729.9	11677.0	11612.8	12183.4	13634.5	14333.6	12875.0	11968.0	11934.0	11843.3	11782.8
55°	11257.6	11276.4	11272.7	11866.0	14159.8	16438.5	15202.8	13778.1	13721.4	13438.0	13521.2
57.5°	9742.2	9681.7	9814.0	10739.8	13558.9	17874.5	18532.1	16060.6	15913.2	14972.3	14783.3
60°	7251.8	7270.7	7380.3	8472.5	12066.3	18176.8	21717.7	18739.9	18105.0	16053.1	15792.3
62.5°	5063.8	5026.0	5067.6	5679.8	8627.4	16967.6	23871.8	21997.4	21385.2	17281.2	17130.1
65°	3624.0	3574.9	3741.2	4115.3	5181.0	12973.2	24177.9	26335.6	25787.7	19242.5	18879.7
67.5°	2607.5	2599.9	2792.7	3472.9	3680.7	7471.0	21910.5	30265.8	29933.2	21570.4	19945.4
69°	2157.8	2161.6	2346.7	3110.1	3514.4	5101.6	18853.3	30942.2	30881.7	22772.1	19745.1
70°	1881.9	1897.0	2112.4	2894.7	3446.4	4194.7	16253.4	30277.1	30216.6	23006.4	19083.8
72.5°	1160.1	1171.5	1454.9	2320.3	3276.4	3423.7	9719.5	24771.2	24979.0	21933.1	16442.3
75°	555.5	559.3	763.4	1677.9	3159.2	3246.1	5207.4	18278.9	18717.2	17708.3	12848.5
77.5°	294.8	294.8	366.6	891.8	2558.4	3053.4	3091.2	12893.8	13256.6	11197.1	7304.7
80°	147.4	151.2	223.0	464.8	1587.2	2992.9	2414.8	7690.2	7886.7	4568.8	2274.9
82.5°	56.7	60.5	105.8	279.6	823.8	2528.1	2120.0	3782.7	3733.6	1069.4	555.5
85°	7.6	7.6	37.8	166.3	351.4	1114.8	1749.7	1579.6	1526.7	234.3	268.3
87.5°	0.0	0.0	7.6	49.1	105.8	325.0	676.4	434.6	483.7	64.2	132.3
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°	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9	7062.9
2.5°	7172.5	7093.1	6972.2	6855.1	6730.3	6579.2	6412.9	6352.4	6246.6	6239.1	6299.5
5°	7164.9	7036.4	6824.8	6575.4	6220.2	5951.9	5660.9	5449.3	5286.8	5181.0	5207.4
7.5°	7202.7	7047.8	6681.2	6144.6	5687.4	5154.5	4704.8	4394.9	4111.5	3971.7	3956.6
10°	7142.3	6934.4	6397.8	5645.8	4973.1	4228.7	3571.1	3155.4	2732.2	2577.3	2584.8
12.5°	7176.3	6885.3	6091.7	5131.8	4206.0	3238.6	2452.6	1885.7	1488.9	1360.4	1345.3
15°	7198.9	6779.5	5796.9	4515.9	3355.7	2206.9	1420.9	1069.4	944.7	922.1	918.3
17.5°	7112.0	6651.0	5381.3	3907.5	2486.6	1341.5	944.7	872.9	850.3	835.2	827.6
20°	7108.2	6575.4	5022.3	3283.9	1659.0	914.5	816.3	789.8	755.8	744.5	744.5
22.5°	7044.0	6416.7	4591.4	2599.9	1058.1	786.0	733.1	691.6	653.8	638.6	634.9
25°	7025.1	6231.5	4187.1	1953.7	804.9	702.9	650.0	589.5	544.2	521.5	510.2
27.5°	6972.2	6072.8	3779.0	1375.5	702.9	627.3	559.3	495.0	442.1	408.1	404.3
30°	6783.3	5906.5	3325.5	952.3	638.6	555.5	479.9	404.3	351.4	328.8	321.2
32.5°	6703.9	5751.6	2830.4	733.1	582.0	491.3	404.3	336.3	294.8	272.1	268.3
35°	6609.4	5524.9	2350.5	638.6	529.1	427.0	340.1	283.4	249.4	230.5	230.5
37.5°	6620.8	5343.5	1900.8	578.2	472.4	366.6	291.0	241.9	211.6	192.7	192.7
40°	6586.7	5199.9	1477.6	525.3	419.5	313.7	245.6	204.1	177.6	158.7	154.9
42.5°	6741.7	5162.1	1114.8	479.9	366.6	268.3	211.6	173.8	147.4	124.7	124.7
45°	7002.4	5222.5	869.2	438.4	313.7	230.5	181.4	143.6	117.1	102.0	98.3
47.5°	7697.8	5460.6	680.2	404.3	268.3	200.3	151.2	117.1	94.5	79.4	75.6
50°	8706.7	5993.4	578.2	355.2	226.7	170.1	124.7	90.7	75.6	60.5	56.7
52.5°	10142.8	6889.1	525.3	313.7	188.9	139.8	98.3	71.8	56.7	45.3	41.6
55°	11707.3	8007.6	476.2	264.5	158.7	113.4	79.4	56.7	41.6	30.2	26.5
57.5°	12927.9	8975.1	434.6	219.2	128.5	90.7	60.5	41.6	30.2	18.9	15.1
60°	14261.8	9655.3	381.7	173.8	105.8	68.0	45.3	30.2	22.7	11.3	11.3
62.5°	15637.4	10452.6	313.7	136.0	83.1	52.9	34.0	22.7	15.1	3.8	3.8
65°	17549.5	11076.2	241.9	105.8	64.2	37.8	26.5	18.9	7.6	0.0	0.0
67.5°	18089.9	10770.1	177.6	83.1	45.3	26.5	18.9	11.3	3.8	0.0	0.0
69°	17549.5	9700.6	154.9	71.8	37.8	22.7	15.1	7.6	3.8	0.0	0.0
70°	16563.2	8869.2	136.0	60.5	34.0	22.7	11.3	7.6	3.8	0.0	0.0
72.5°	13853.7	6802.1	105.8	45.3	26.5	18.9	11.3	7.6	0.0	0.0	0.0
75°	10161.7	4202.2	79.4	34.0	22.7	15.1	11.3	7.6	0.0	0.0	0.0
77.5°	5445.5	1534.3	56.7	22.7	15.1	11.3	11.3	7.6	0.0	0.0	0.0
80°	1492.7	453.5	41.6	15.1	11.3	7.6	7.6	3.8	0.0	0.0	0.0
82.5°	408.1	117.1	26.5	15.1	11.3	7.6	3.8	0.0	0.0	0.0	0.0
85°	219.2	45.3	15.1	11.3	7.6	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	113.4	15.1	11.3	7.6	7.6	3.8	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)