

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: P483995

Luminaire Tested: **IFLD-L-SA7D-735-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483995  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-735-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

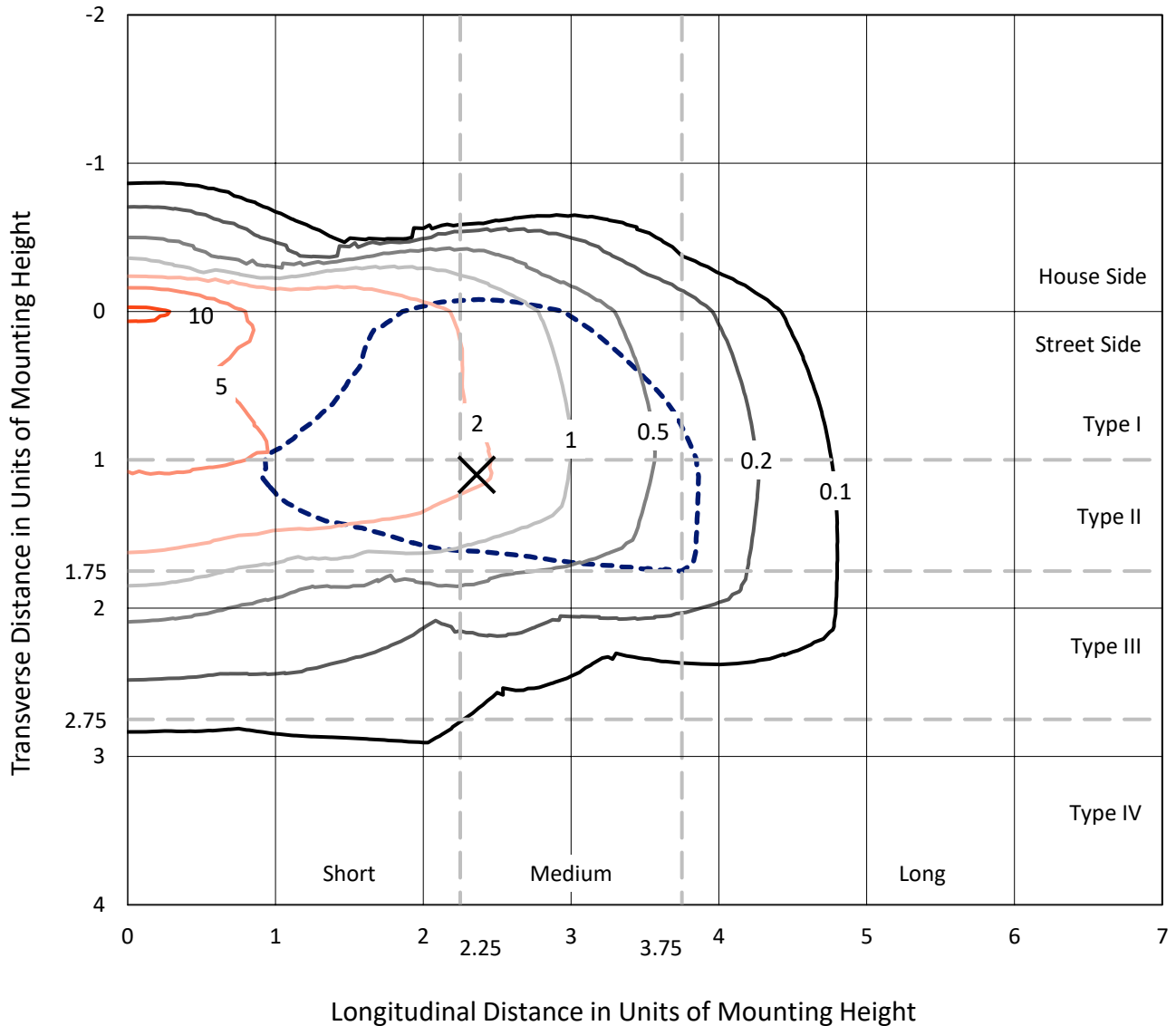
Lumens per Lamp: N/A  
Luminaire Lumens: 39597.7 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6  
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

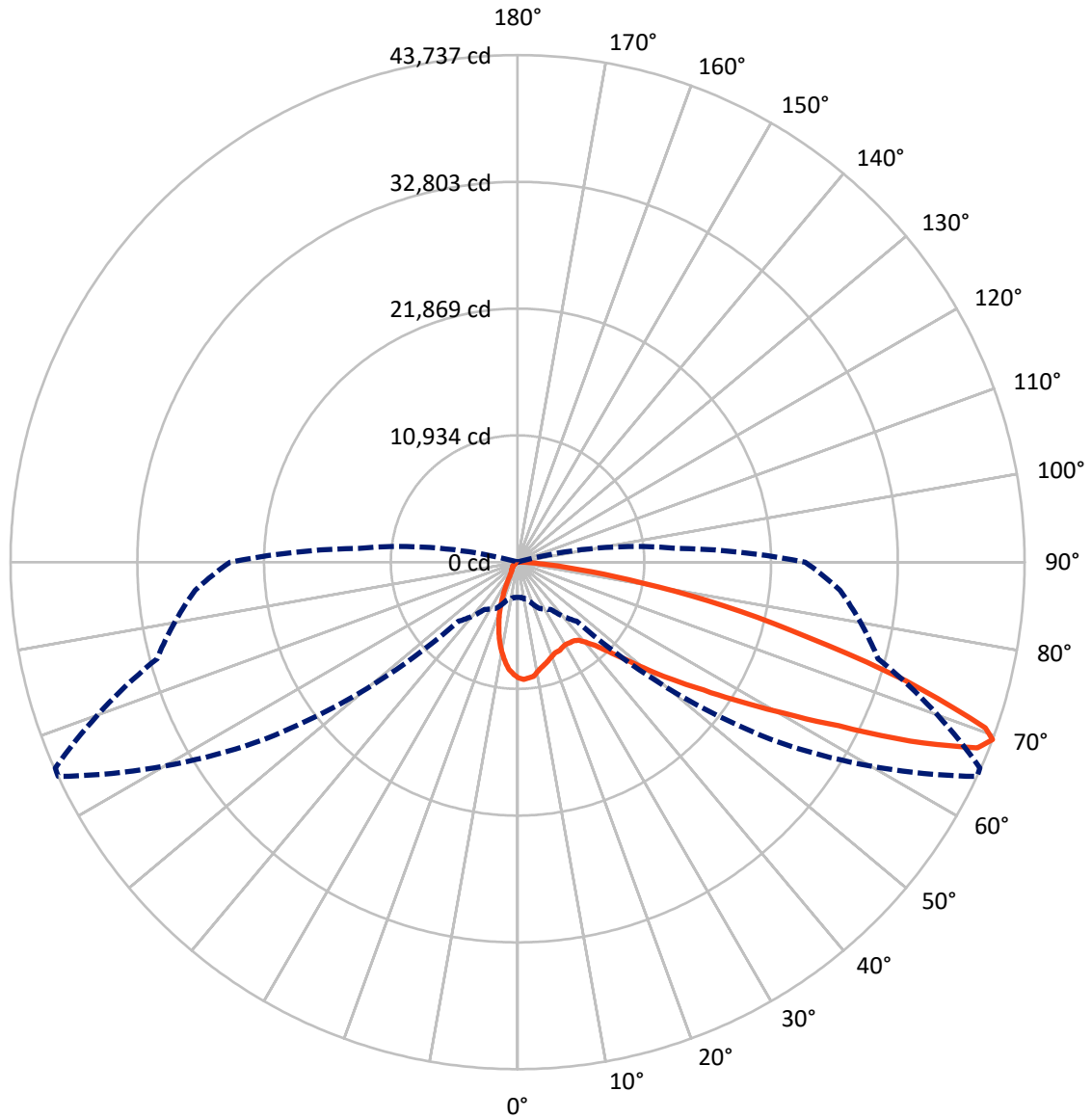
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 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	4803.4	0.0	4803.4
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	34794.3	0.0	34794.3
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	39597.7	0.0	39597.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	817.0	2.1
10°-20°	1787.5	4.5
20°-30°	2488.6	6.3
30°-40°	3526.6	8.9
40°-50°	5557.9	14.0
50°-60°	9018.5	22.8
60°-70°	10071.8	25.4
70°-80°	5671.6	14.3
80°-90°	658.1	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°	39597.7	100.0
0°-180°	39597.7	100.0



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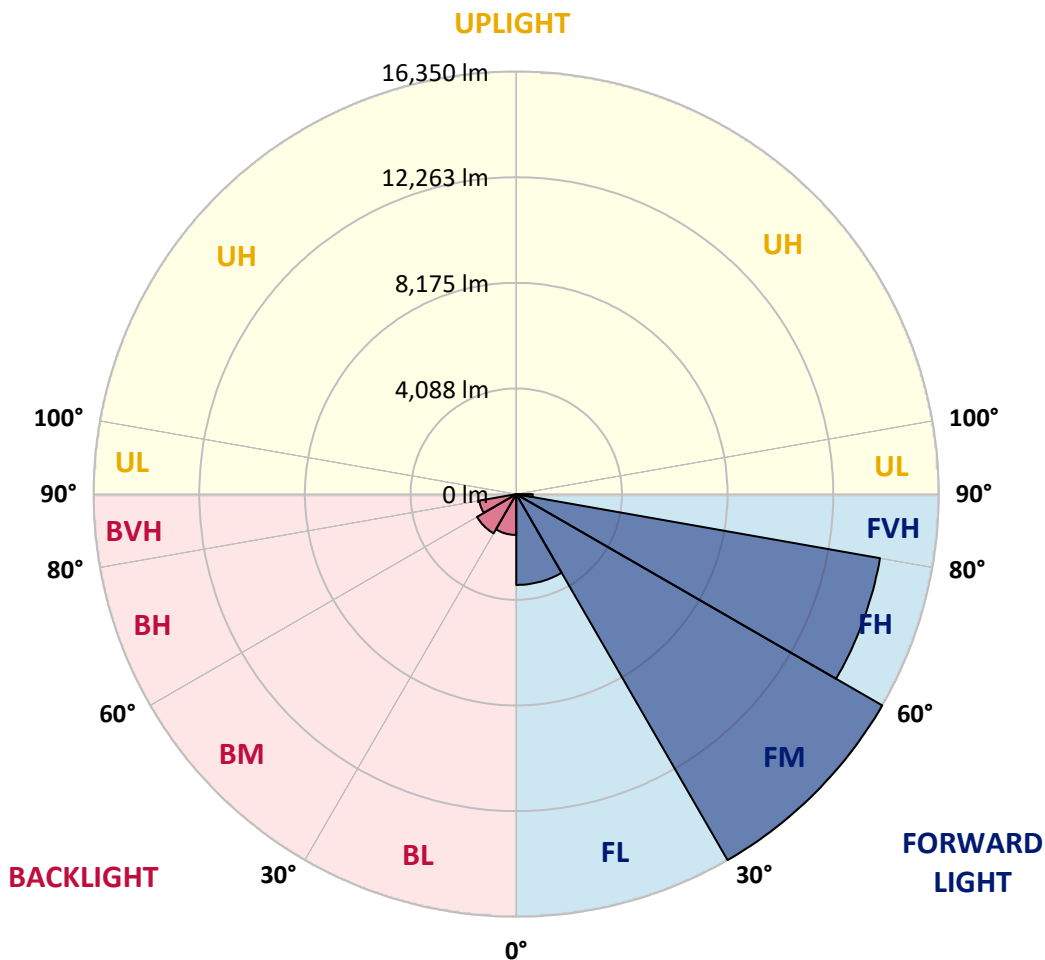
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3513.9	8.9			
FM (30°-60°)	16350.3	41.3			
FH (60°-80°)	14290.1	36.1			G5
FVH (80°-90°)	640.0	1.6			G4/750
BL (0°-30°)	1579.2	4.0	B3/2500		
BM (30°-60°)	1752.7	4.4	B2/2500		
BH (60°-80°)	1453.3	3.7	B3/2500		G3/2500
BVH (80°-90°)	18.2	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-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5
2.5°	9614.9	9689.7	9711.1	9785.9	9823.3	9983.5	10074.3	10127.7	10101.0	10159.8	10165.1
5°	8931.2	8888.5	9000.6	9080.8	9251.7	9529.5	9812.6	10031.6	10133.1	10229.2	10213.2
7.5°	8199.4	8178.0	8290.2	8471.8	8626.7	8963.3	9417.3	9956.8	9935.4	10170.5	10239.9
10°	7697.3	7718.7	7756.0	7937.7	8167.3	8509.2	9075.4	9577.5	9689.7	10186.5	10325.4
12.5°	7237.9	7275.3	7344.7	7531.7	7798.8	8151.3	8701.5	9289.1	9460.0	10095.7	10373.4
15°	7088.3	7002.9	7141.8	7280.6	7558.4	7873.6	8338.3	9070.1	9144.9	9988.8	10453.6
17.5°	6965.5	6912.1	6976.2	7088.3	7382.1	7638.5	8076.5	8835.1	8973.9	9946.1	10442.9
20°	7002.9	6954.8	6981.5	7067.0	7200.5	7440.9	7846.9	8610.7	8760.3	9748.5	10426.9
22.5°	7109.7	7147.1	7099.0	7120.4	7163.1	7286.0	7724.0	8450.5	8578.7	9711.1	10517.7
25°	7590.5	7526.4	7462.3	7435.5	7184.5	7237.9	7686.6	8439.8	8530.6	9577.5	10442.9
27.5°	8092.6	8039.1	8012.4	7857.5	7515.7	7355.4	7691.9	8290.2	8413.1	9524.1	10352.1
30°	8701.5	8771.0	8664.1	8477.2	8001.8	7606.5	7750.7	8215.4	8386.4	9321.1	10293.3
32.5°	9342.5	9379.9	9433.3	9294.4	8680.1	7985.7	7927.0	8284.9	8295.5	9321.1	10159.8
35°	10069.0	10015.6	10154.4	10165.1	9625.6	8658.8	8263.5	8332.9	8445.1	9278.4	10111.7
37.5°	10693.9	10784.7	10945.0	11201.4	10645.9	9609.6	8787.0	8557.3	8605.4	9476.0	10149.1
40°	11377.7	11468.5	11831.7	12088.1	11772.9	10677.9	9582.9	9080.8	9118.2	9769.8	10341.4
42.5°	12130.8	12307.1	12739.8	13188.5	13103.0	12034.7	10608.5	9850.0	9833.9	10501.6	10736.7
45°	13151.1	13386.1	13856.2	14374.3	14449.1	13589.1	11975.9	10998.4	11051.8	11457.8	11553.9
47.5°	14572.0	14561.3	15020.7	15597.6	16030.2	15202.3	13610.5	12542.1	12536.8	12969.5	12766.5
50°	15944.8	15950.1	16073.0	16740.7	17862.4	17440.4	15634.9	14593.3	14534.6	14748.2	14422.4
52.5°	16580.4	16505.6	16414.8	17221.4	19272.6	20260.8	18198.9	16916.9	16868.9	16740.7	16655.2
55°	15912.7	15939.4	15934.1	16772.7	20015.1	23236.1	21489.4	19475.6	19395.4	18994.8	19112.3
57.5°	13770.7	13685.2	13872.2	15180.9	19165.8	25265.9	26195.3	22701.9	22493.6	21163.5	20896.4
60°	10250.6	10277.3	10432.2	11975.9	17055.8	25693.2	30698.3	26489.1	25591.7	22691.2	22322.7
62.5°	7157.8	7104.4	7163.1	8028.5	12194.9	23983.9	33743.1	31093.6	30228.3	24427.3	24213.6
65°	5122.6	5053.2	5288.2	5817.0	7323.4	18337.8	34175.7	37225.8	36451.3	27199.6	26686.8
67.5°	3685.7	3675.0	3947.5	4909.0	5202.7	10560.4	30970.8	42781.1	42311.0	30490.0	28193.1
69°	3050.1	3055.4	3317.2	4396.2	4967.7	7211.2	26649.4	43737.2	43651.8	32188.6	27910.0
70°	2660.1	2681.5	2986.0	4091.7	4871.6	5929.2	22974.3	42797.1	42711.7	32519.8	26975.2
72.5°	1639.9	1655.9	2056.5	3279.8	4631.2	4839.5	13738.7	35014.4	35308.2	31002.8	23241.4
75°	785.2	790.6	1079.0	2371.7	4465.6	4588.5	7360.8	25837.5	26457.1	25030.9	18161.5
77.5°	416.6	416.6	518.1	1260.6	3616.3	4316.0	4369.5	18225.6	18738.4	15827.2	10325.4
80°	208.3	213.7	315.2	657.0	2243.5	4230.6	3413.3	10870.2	11148.0	6458.0	3215.7
82.5°	80.1	85.5	149.6	395.3	1164.5	3573.5	2996.7	5347.0	5277.5	1511.7	785.2
85°	10.7	10.7	53.4	235.0	496.8	1575.8	2473.2	2232.8	2158.0	331.2	379.3
87.5°	0.0	0.0	10.7	69.4	149.6	459.4	956.2	614.3	683.7	90.8	187.0
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°	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5	9983.5
2.5°	10138.4	10026.2	9855.3	9689.7	9513.4	9299.8	9064.7	8979.3	8829.7	8819.0	8904.5
5°	10127.7	9946.1	9647.0	9294.4	8792.3	8413.1	8001.8	7702.6	7472.9	7323.4	7360.8
7.5°	10181.1	9962.1	9444.0	8685.5	8039.1	7286.0	6650.3	6212.3	5811.7	5614.1	5592.7
10°	10095.7	9801.9	9043.4	7980.4	7029.6	5977.3	5047.8	4460.3	3862.0	3643.0	3653.7
12.5°	10143.8	9732.4	8610.7	7253.9	5945.2	4577.8	3466.7	2665.5	2104.6	1923.0	1901.6
15°	10175.8	9582.9	8194.1	6383.2	4743.4	3119.5	2008.5	1511.7	1335.4	1303.4	1298.0
17.5°	10052.9	9401.3	7606.5	5523.2	3514.8	1896.3	1335.4	1233.9	1201.9	1180.5	1169.8
20°	10047.6	9294.4	7099.0	4641.9	2345.0	1292.7	1153.8	1116.4	1068.3	1052.3	1052.3
22.5°	9956.8	9070.1	6490.1	3675.0	1495.7	1111.1	1036.3	977.5	924.1	902.7	897.4
25°	9930.1	8808.3	5918.5	2761.6	1137.8	993.5	918.8	833.3	769.2	737.1	721.1
27.5°	9855.3	8584.0	5341.6	1944.4	993.5	886.7	790.6	699.8	625.0	576.9	571.6
30°	9588.2	8349.0	4700.6	1346.1	902.7	785.2	678.4	571.6	496.8	464.7	454.0
32.5°	9476.0	8130.0	4000.9	1036.3	822.6	694.4	571.6	475.4	416.6	384.6	379.3
35°	9342.5	7809.5	3322.5	902.7	747.8	603.6	480.7	400.6	352.5	325.8	325.8
37.5°	9358.5	7553.1	2686.8	817.3	667.7	518.1	411.3	341.9	299.1	272.4	272.4
40°	9310.5	7350.1	2088.6	742.5	592.9	443.4	347.2	288.4	251.1	224.3	219.0
42.5°	9529.5	7296.7	1575.8	678.4	518.1	379.3	299.1	245.7	208.3	176.3	176.3
45°	9898.0	7382.1	1228.6	619.6	443.4	325.8	256.4	203.0	165.6	144.2	138.9
47.5°	10880.9	7718.7	961.5	571.6	379.3	283.1	213.7	165.6	133.5	112.2	106.8
50°	12307.1	8471.8	817.3	502.1	320.5	240.4	176.3	128.2	106.8	85.5	80.1
52.5°	14336.9	9737.8	742.5	443.4	267.1	197.6	138.9	101.5	80.1	64.1	58.8
55°	16548.4	11318.9	673.0	373.9	224.3	160.2	112.2	80.1	58.8	42.7	37.4
57.5°	18273.7	12686.4	614.3	309.8	181.6	128.2	85.5	58.8	42.7	26.7	21.4
60°	20159.3	13647.9	539.5	245.7	149.6	96.1	64.1	42.7	32.0	16.0	16.0
62.5°	22103.7	14774.9	443.4	192.3	117.5	74.8	48.1	32.0	21.4	5.3	5.3
65°	24806.5	15656.3	341.9	149.6	90.8	53.4	37.4	26.7	10.7	0.0	0.0
67.5°	25570.4	15223.6	251.1	117.5	64.1	37.4	26.7	16.0	5.3	0.0	0.0
69°	24806.5	13712.0	219.0	101.5	53.4	32.0	21.4	10.7	5.3	0.0	0.0
70°	23412.4	12536.8	192.3	85.5	48.1	32.0	16.0	10.7	5.3	0.0	0.0
72.5°	19582.4	9614.9	149.6	64.1	37.4	26.7	16.0	10.7	0.0	0.0	0.0
75°	14363.6	5939.9	112.2	48.1	32.0	21.4	16.0	10.7	0.0	0.0	0.0
77.5°	7697.3	2168.7	80.1	32.0	21.4	16.0	16.0	10.7	0.0	0.0	0.0
80°	2109.9	641.0	58.8	21.4	16.0	10.7	10.7	5.3	0.0	0.0	0.0
82.5°	576.9	165.6	37.4	21.4	16.0	10.7	5.3	0.0	0.0	0.0	0.0
85°	309.8	64.1	21.4	16.0	10.7	5.3	0.0	0.0	0.0	0.0	0.0
87.5°	160.2	21.4	16.0	10.7	10.7	5.3	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)