

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: P483998

Luminaire Tested: **IFLD-L-SA8B-735-U-SL2-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483998  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-735-U-SL2-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2  
distribution lens with House Side Shield  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

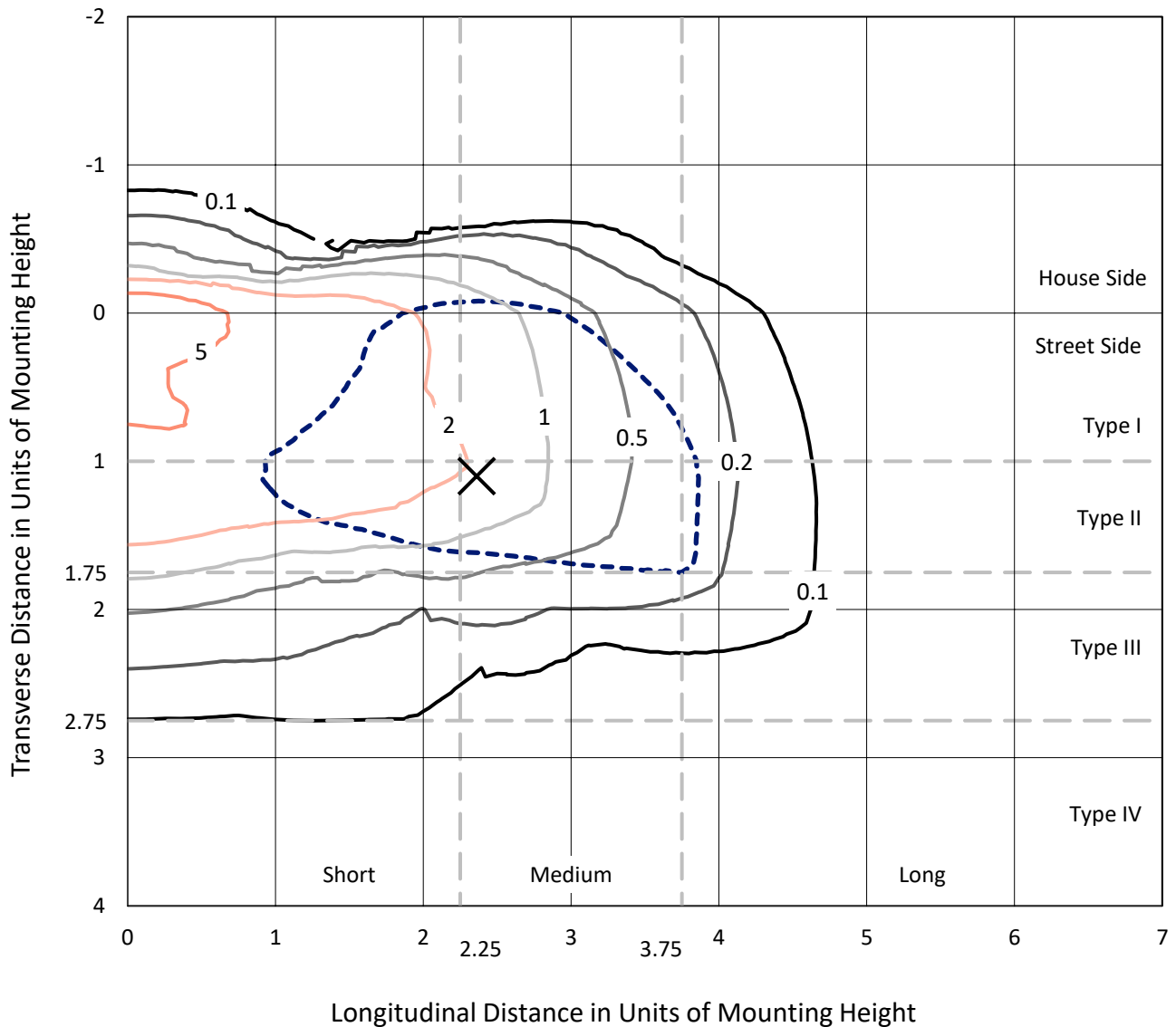
Lumens per Lamp: N/A  
Luminaire Lumens: 33038.2 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

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

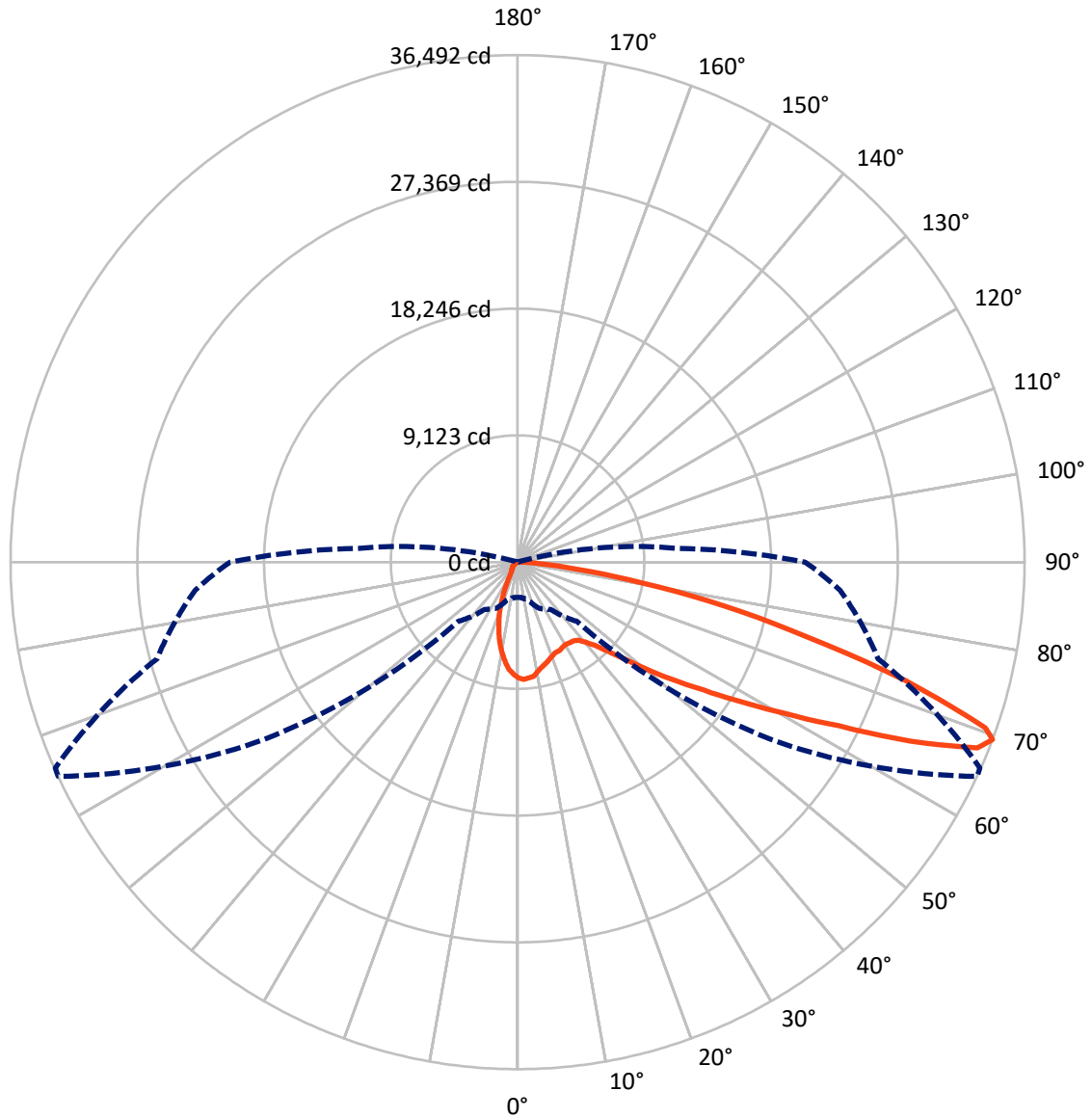
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 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
<b>House Side</b>	Lumens	4007.7	0.0	4007.7
	% Fixture	12.1	0.0	12.1
<b>Street Side</b>	Lumens	29030.5	0.0	29030.5
	% Fixture	87.9	0.0	87.9
<b>Total</b>	Lumens	33038.2	0.0	33038.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	681.6	2.1
10°-20°	1491.4	4.5
20°-30°	2076.4	6.3
30°-40°	2942.5	8.9
40°-50°	4637.2	14.0
50°-60°	7524.6	22.8
60°-70°	8403.4	25.4
70°-80°	4732.1	14.3
80°-90°	549.1	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°	33038.2	100.0
0°-180°	33038.2	100.0

**Coefficient of Utilization**



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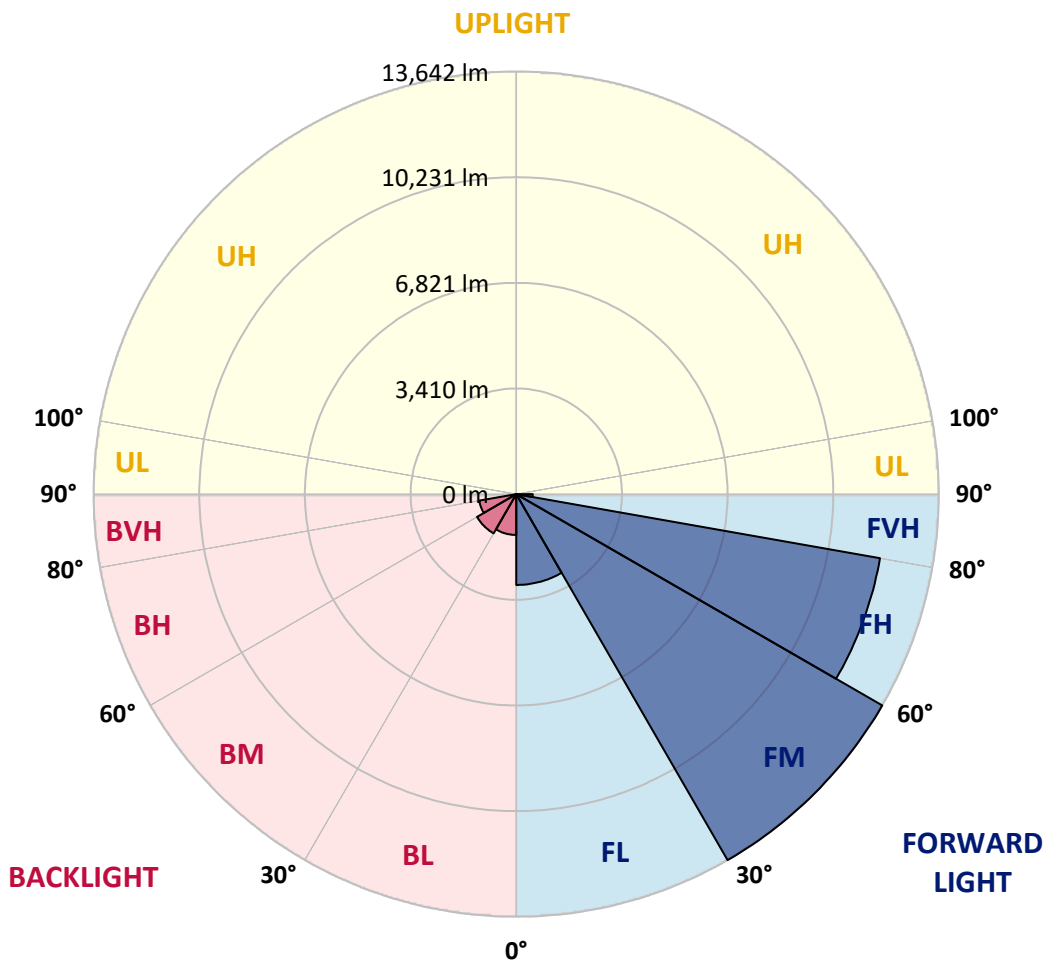
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2931.8	8.9			
FM (30°-60°)	13641.8	41.3			
FH (60°-80°)	11922.9	36.1			G4/12000
FVH (80°-90°)	534.0	1.6			G4/750
BL (0°-30°)	1317.6	4.0	B3/2500		
BM (30°-60°)	1462.4	4.4	B2/2500		
BH (60°-80°)	1212.6	3.7	B3/2500		G3/2500
BVH (80°-90°)	15.1	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°	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7
2.5°	8022.2	8084.6	8102.4	8164.8	8196.0	8329.7	8405.5	8450.0	8427.8	8476.8	8481.2
5°	7451.7	7416.1	7509.7	7576.5	7719.1	7950.9	8187.1	8369.8	8454.5	8534.7	8521.3
7.5°	6841.1	6823.3	6916.9	7068.4	7197.7	7478.5	7857.3	8307.4	8289.6	8485.7	8543.6
10°	6422.2	6440.0	6471.2	6622.8	6814.4	7099.6	7572.1	7991.0	8084.6	8499.1	8614.9
12.5°	6038.9	6070.1	6128.1	6284.0	6506.9	6801.0	7260.1	7750.3	7892.9	8423.3	8655.1
15°	5914.1	5842.8	5958.7	6074.6	6306.3	6569.3	6957.0	7567.6	7630.0	8334.2	8721.9
17.5°	5811.6	5767.1	5820.5	5914.1	6159.3	6373.2	6738.6	7371.5	7487.4	8298.5	8713.0
20°	5842.8	5802.7	5825.0	5896.3	6007.7	6208.3	6547.0	7184.3	7309.1	8133.6	8699.6
22.5°	5932.0	5963.2	5923.1	5940.9	5976.5	6079.0	6444.5	7050.6	7157.6	8102.4	8775.4
25°	6333.1	6279.6	6226.1	6203.8	5994.4	6038.9	6413.3	7041.7	7117.5	7991.0	8713.0
27.5°	6752.0	6707.4	6685.2	6555.9	6270.7	6137.0	6417.8	6916.9	7019.4	7946.4	8637.2
30°	7260.1	7318.0	7228.9	7072.9	6676.2	6346.4	6466.8	6854.5	6997.1	7777.1	8588.2
32.5°	7794.9	7826.1	7870.7	7754.8	7242.3	6662.9	6613.8	6912.5	6921.4	7777.1	8476.8
35°	8401.0	8356.4	8472.3	8481.2	8031.1	7224.4	6894.6	6952.6	7046.2	7741.4	8436.7
37.5°	8922.5	8998.2	9131.9	9345.9	8882.3	8017.7	7331.4	7139.7	7179.9	7906.3	8467.9
40°	9492.9	9568.7	9871.8	10085.7	9822.7	8909.1	7995.4	7576.5	7607.7	8151.4	8628.3
42.5°	10121.3	10268.4	10629.4	11003.8	10932.5	10041.1	8851.1	8218.3	8204.9	8762.0	8958.1
45°	10972.6	11168.7	11560.9	11993.2	12055.6	11338.0	9992.1	9176.5	9221.1	9559.8	9640.0
47.5°	12158.1	12149.2	12532.4	13013.8	13374.8	12684.0	11355.9	10464.5	10460.0	10821.0	10651.7
50°	13303.5	13307.9	13410.4	13967.5	14903.4	14551.4	13045.0	12175.9	12126.9	12305.1	12033.3
52.5°	13833.8	13771.4	13695.7	14368.6	16080.0	16904.5	15184.2	14114.6	14074.5	13967.5	13896.2
55°	13276.7	13299.0	13294.6	13994.3	16699.5	19387.0	17929.6	16249.4	16182.5	15848.3	15946.3
57.5°	11489.6	11418.3	11574.2	12666.1	15990.9	21080.5	21856.0	18941.3	18767.5	17657.7	17434.9
60°	8552.5	8574.8	8704.1	9992.1	14230.5	21437.1	25613.1	22101.1	21352.4	18932.4	18624.9
62.5°	5972.1	5927.5	5976.5	6698.5	10174.8	20010.9	28153.4	25942.9	25220.9	20380.8	20202.5
65°	4274.0	4216.1	4412.2	4853.4	6110.2	15300.1	28514.4	31059.2	30413.0	22693.9	22266.0
67.5°	3075.2	3066.3	3293.6	4095.8	4340.9	8811.0	25840.4	35694.3	35302.1	25439.3	23522.8
69°	2544.8	2549.3	2767.7	3667.9	4144.8	6016.6	22234.8	36492.0	36420.7	26856.5	23286.6
70°	2219.5	2237.3	2491.3	3413.9	4064.6	4947.0	19168.6	35707.7	35636.3	27132.8	22506.7
72.5°	1368.2	1381.6	1715.9	2736.5	3864.0	4037.8	11462.8	29214.1	29459.3	25867.1	19391.4
75°	655.1	659.6	900.3	1978.8	3725.9	3828.4	6141.4	21557.4	22074.4	20884.4	15153.0
77.5°	347.6	347.6	432.3	1051.8	3017.2	3601.1	3645.6	15206.5	15634.4	13205.4	8614.9
80°	173.8	178.3	262.9	548.2	1871.8	3529.8	2847.9	9069.5	9301.3	5388.2	2683.0
82.5°	66.9	71.3	124.8	329.8	971.6	2981.6	2500.2	4461.2	4403.3	1261.3	655.1
85°	8.9	8.9	44.6	196.1	414.5	1314.7	2063.5	1862.9	1800.5	276.3	316.4
87.5°	0.0	0.0	8.9	57.9	124.8	383.3	797.8	512.5	570.5	75.8	156.0
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°	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7	8329.7
2.5°	8459.0	8365.4	8222.7	8084.6	7937.5	7759.2	7563.1	7491.8	7367.0	7358.1	7429.4
5°	8450.0	8298.5	8048.9	7754.8	7335.8	7019.4	6676.2	6426.7	6235.0	6110.2	6141.4
7.5°	8494.6	8311.9	7879.6	7246.7	6707.4	6079.0	5548.7	5183.2	4849.0	4684.1	4666.2
10°	8423.3	8178.2	7545.3	6658.4	5865.1	4987.1	4211.6	3721.4	3222.2	3039.5	3048.4
12.5°	8463.4	8120.2	7184.3	6052.3	4960.4	3819.5	2892.4	2223.9	1756.0	1604.4	1586.6
15°	8490.2	7995.4	6836.7	5325.8	3957.6	2602.8	1675.7	1261.3	1114.2	1087.5	1083.0
17.5°	8387.6	7843.9	6346.4	4608.3	2932.6	1582.2	1114.2	1029.5	1002.8	984.9	976.0
20°	8383.2	7754.8	5923.1	3872.9	1956.5	1078.5	962.7	931.5	891.4	878.0	878.0
22.5°	8307.4	7567.6	5415.0	3066.3	1247.9	927.0	864.6	815.6	771.0	753.2	748.7
25°	8285.1	7349.2	4938.1	2304.2	949.3	829.0	766.6	695.3	641.8	615.0	601.7
27.5°	8222.7	7162.0	4456.8	1622.3	829.0	739.8	659.6	583.8	521.4	481.3	476.9
30°	7999.9	6965.9	3922.0	1123.1	753.2	655.1	566.0	476.9	414.5	387.7	378.8
32.5°	7906.3	6783.2	3338.1	864.6	686.3	579.4	476.9	396.7	347.6	320.9	316.4
35°	7794.9	6515.8	2772.1	753.2	623.9	503.6	401.1	334.3	294.1	271.9	271.9
37.5°	7808.3	6301.9	2241.8	681.9	557.1	432.3	343.2	285.2	249.6	227.3	227.3
40°	7768.2	6132.5	1742.6	619.5	494.7	369.9	289.7	240.7	209.5	187.2	182.7
42.5°	7950.9	6088.0	1314.7	566.0	432.3	316.4	249.6	205.0	173.8	147.1	147.1
45°	8258.4	6159.3	1025.1	517.0	369.9	271.9	213.9	169.4	138.2	120.3	115.9
47.5°	9078.4	6440.0	802.2	476.9	316.4	236.2	178.3	138.2	111.4	93.6	89.1
50°	10268.4	7068.4	681.9	418.9	267.4	200.6	147.1	107.0	89.1	71.3	66.9
52.5°	11962.0	8124.7	619.5	369.9	222.8	164.9	115.9	84.7	66.9	53.5	49.0
55°	13807.1	9443.9	561.6	312.0	187.2	133.7	93.6	66.9	49.0	35.7	31.2
57.5°	15246.6	10584.8	512.5	258.5	151.5	107.0	71.3	49.0	35.7	22.3	17.8
60°	16819.9	11387.1	450.1	205.0	124.8	80.2	53.5	35.7	26.7	13.4	13.4
62.5°	18442.1	12327.4	369.9	160.4	98.0	62.4	40.1	26.7	17.8	4.5	4.5
65°	20697.2	13062.8	285.2	124.8	75.8	44.6	31.2	22.3	8.9	0.0	0.0
67.5°	21334.6	12701.8	209.5	98.0	53.5	31.2	22.3	13.4	4.5	0.0	0.0
69°	20697.2	11440.5	182.7	84.7	44.6	26.7	17.8	8.9	4.5	0.0	0.0
70°	19534.0	10460.0	160.4	71.3	40.1	26.7	13.4	8.9	4.5	0.0	0.0
72.5°	16338.5	8022.2	124.8	53.5	31.2	22.3	13.4	8.9	0.0	0.0	0.0
75°	11984.3	4955.9	93.6	40.1	26.7	17.8	13.4	8.9	0.0	0.0	0.0
77.5°	6422.2	1809.4	66.9	26.7	17.8	13.4	13.4	8.9	0.0	0.0	0.0
80°	1760.4	534.8	49.0	17.8	13.4	8.9	8.9	4.5	0.0	0.0	0.0
82.5°	481.3	138.2	31.2	17.8	13.4	8.9	4.5	0.0	0.0	0.0	0.0
85°	258.5	53.5	17.8	13.4	8.9	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	133.7	17.8	13.4	8.9	8.9	4.5	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)