

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: P484975

Luminaire Tested: **IFLD-L-SA8D-830-U-SL4-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P484975  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8D-830-U-SL4-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield  
Light Source: (128) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

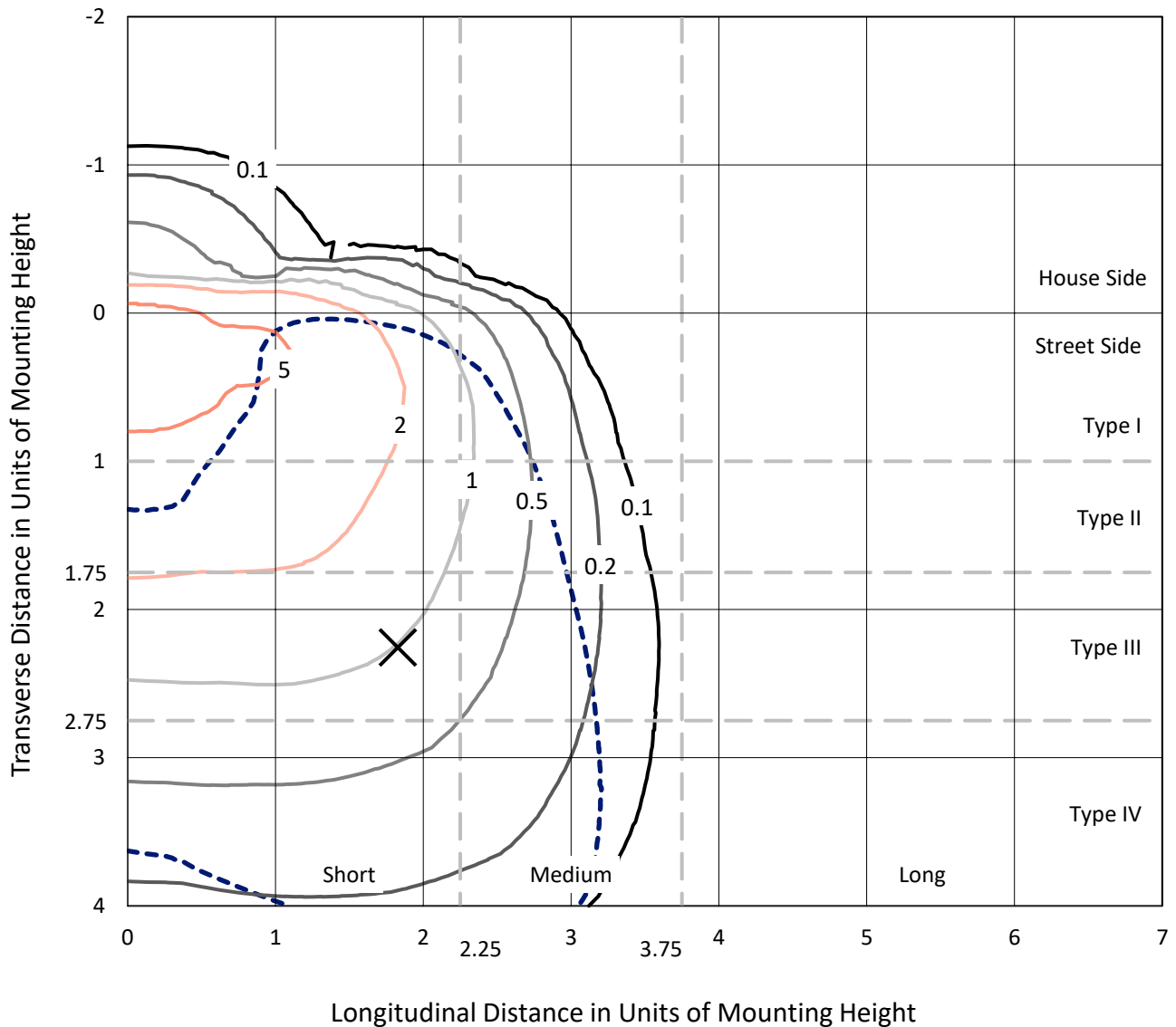
Lumens per Lamp: N/A  
Luminaire Lumens: 36594.6 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

Input Watts (W): 488.3  
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

REPORT NUMBER: P484975  
 CATALOG NUMBER: IFLD-L-SA8D-830-U-SL4-HSS

### Iso-Footcandle Lines of Horizontal Illumination

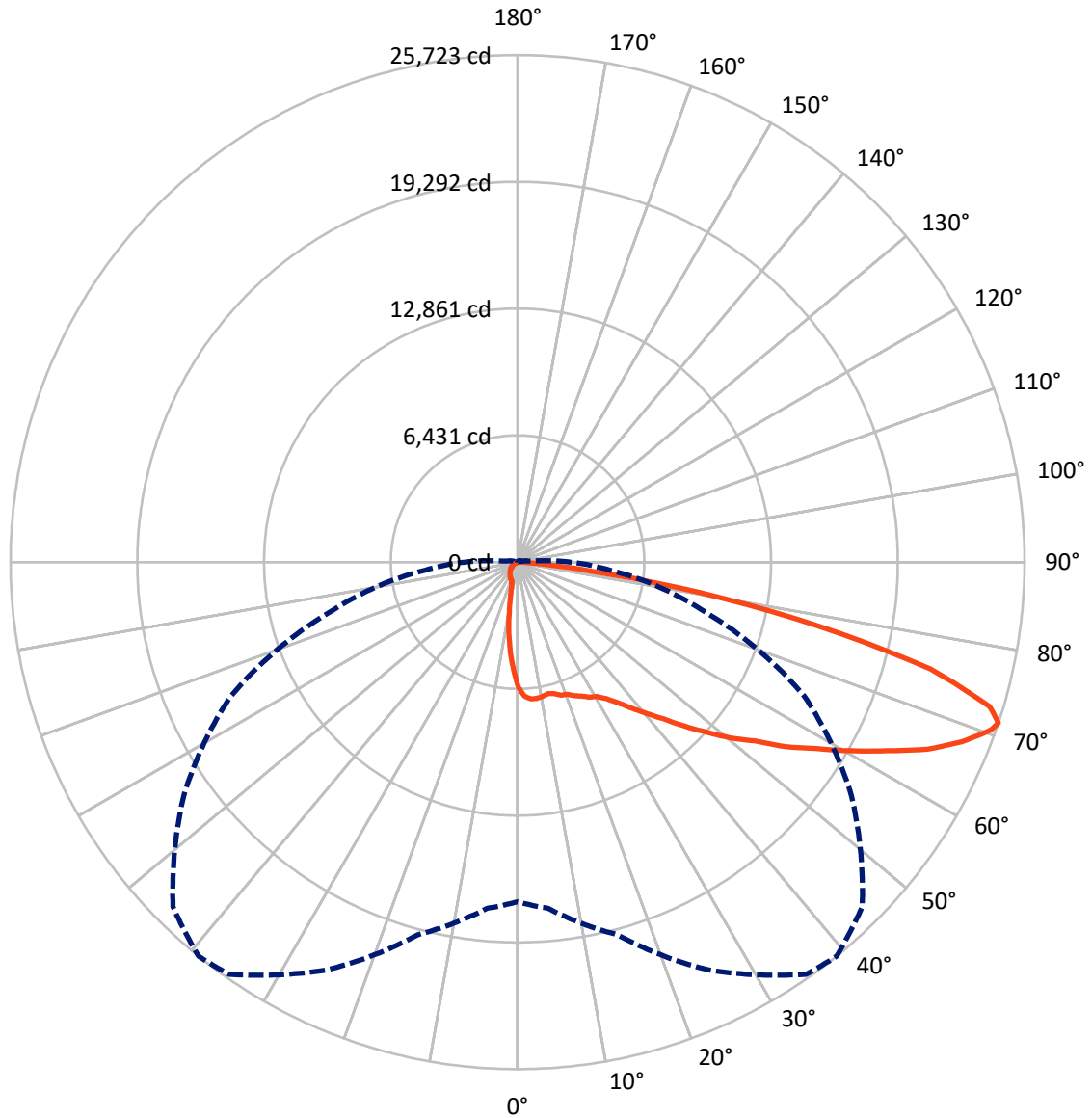
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type IV - Short - N/A

REPORT NUMBER: P484975  
CATALOG NUMBER: IFLD-L-SA8D-830-U-SL4-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484975  
 CATALOG NUMBER: IFLD-L-SA8D-830-U-SL4-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2755.0	0.0	2755.0
	% Fixture	7.5	0.0	7.5
<b>Street Side</b>	Lumens	33839.6	0.0	33839.6
	% Fixture	92.5	0.0	92.5
<b>Total</b>	Lumens	36594.6	0.0	36594.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	532.5	1.5
10°-20°	1310.8	3.6
20°-30°	2104.2	5.8
30°-40°	3221.0	8.8
40°-50°	5170.3	14.1
50°-60°	7594.3	20.8
60°-70°	9564.8	26.1
70°-80°	6383.3	17.4
80°-90°	713.4	1.9
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°	36594.6	100.0
0°-180°	36594.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P484975

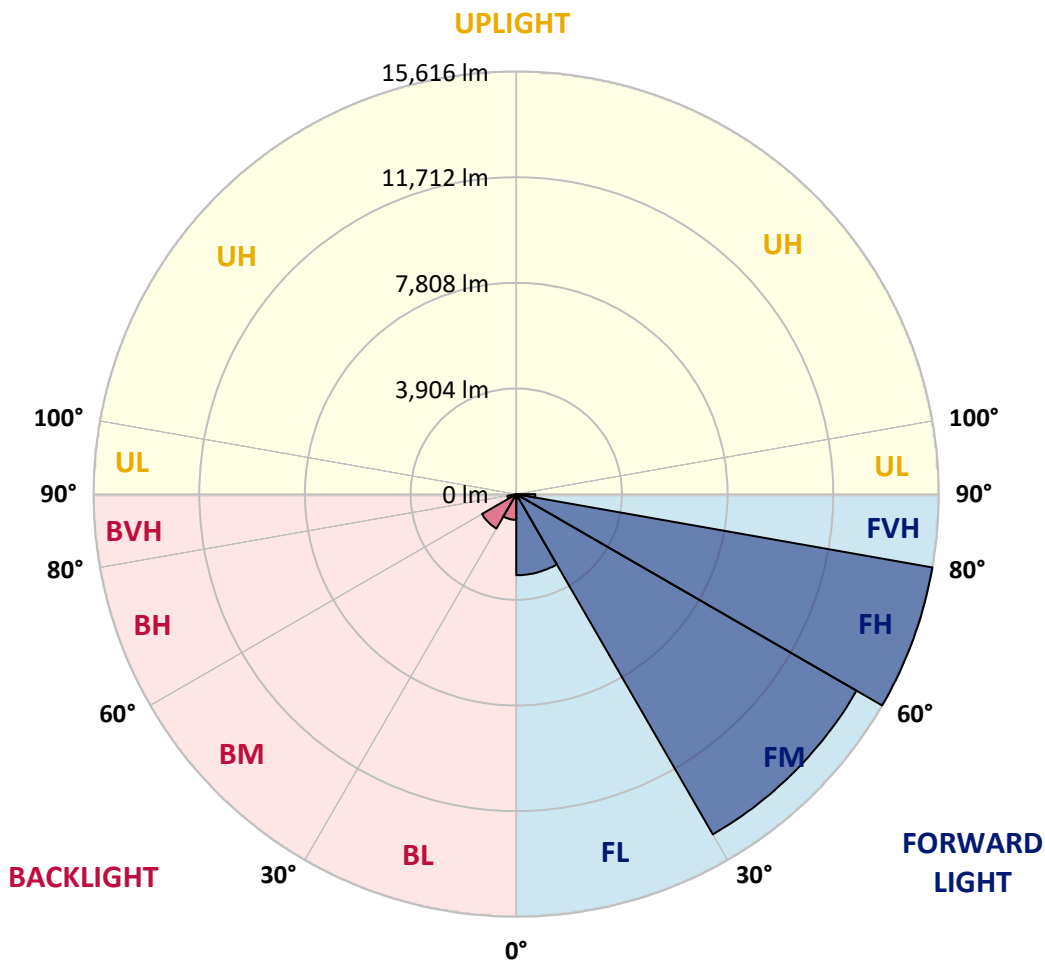
CATALOG NUMBER: IFLD-L-SA8D-830-U-SL4-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2996.3	8.2			
FM (30°-60°)	14521.3	39.7			
FH (60°-80°)	15616.5	42.7			G5
FVH (80°-90°)	705.5	1.9			G4/750
BL (0°-30°)	951.2	2.6	B2/1000		
BM (30°-60°)	1464.4	4.0	B2/2500		
BH (60°-80°)	331.6	0.9	B1/500		G1/500
BVH (80°-90°)	7.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





REPORT NUMBER: P484975

CATALOG NUMBER: IFLD-L-SA8D-830-U-SL4-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5
2.5°	6863.9	6931.1	6863.9	6835.1	6806.3	6811.1	6734.3	6748.7	6657.5	6537.5	6441.5
5°	7079.9	7171.1	7099.1	7065.5	7060.7	6969.5	6931.1	6839.9	6729.5	6542.3	6427.1
7.5°	7060.7	7041.5	7075.1	7046.3	6983.9	6983.9	6940.7	6811.1	6700.7	6489.5	6292.7
10°	6916.7	6974.3	6945.5	6911.9	6926.3	6931.1	6849.5	6758.3	6724.7	6513.5	6191.9
12.5°	6902.3	6806.3	6911.9	6916.7	6854.3	6849.5	6839.9	6815.9	6710.3	6518.3	6215.9
15°	6854.3	6815.9	6921.5	6926.3	6940.7	6926.3	6940.7	6921.5	6815.9	6705.5	6321.5
17.5°	6892.7	6849.5	6998.3	7070.3	7036.7	7103.9	7079.9	6993.5	6902.3	6772.7	6422.3
20°	6902.3	6964.7	7127.9	7156.7	7262.3	7151.9	7147.1	7055.9	6998.3	6859.1	6484.7
22.5°	7079.9	7108.7	7310.3	7372.7	7377.5	7363.1	7243.1	7137.5	7113.5	6940.7	6499.1
25°	7348.7	7449.5	7540.7	7579.1	7593.5	7526.3	7401.5	7267.1	7209.5	7099.1	6647.9
27.5°	7823.9	7761.5	7843.1	7900.7	7737.5	7761.5	7603.1	7487.9	7406.3	7310.3	6820.7
30°	8246.3	8188.7	8193.5	8183.9	8044.7	7915.1	7871.9	7670.3	7569.5	7607.9	7089.5
32.5°	8625.5	8500.7	8606.3	8558.3	8299.1	8260.7	8227.1	7972.7	7991.9	8169.5	7492.7
35°	8975.9	8932.7	9019.1	8932.7	8759.9	8750.3	8716.7	8495.9	8601.5	8855.9	8183.9
37.5°	9297.5	9311.9	9417.5	9374.3	9388.7	9398.3	9379.1	9143.9	9446.3	10017.5	8990.3
40°	9595.1	9575.9	9835.1	9969.5	9998.3	10103.9	10103.9	10046.3	10511.9	11155.1	10108.7
42.5°	9911.9	9959.9	10295.9	10521.5	10795.1	10886.3	11011.1	11039.9	11759.9	12494.2	11251.1
45°	10430.3	10348.7	10775.9	11308.7	11548.7	11870.3	12062.3	12225.5	13094.2	14102.2	12393.4
47.5°	11087.9	10924.7	11299.1	12071.9	12628.6	12892.6	13238.2	13454.2	14303.8	15345.4	13473.4
50°	11817.5	11649.5	11831.9	12897.4	13545.4	14025.4	14467.0	14740.6	15767.8	16737.4	14260.6
52.5°	12643.0	12489.4	12518.2	13756.6	14711.8	15062.2	15643.0	16051.0	17073.4	17577.4	14539.0
55°	13521.4	13483.0	13391.8	14596.6	15734.2	16521.4	16871.8	17361.4	18412.6	18033.4	14841.4
57.5°	14404.6	14284.6	14414.2	15710.2	17375.8	17846.2	18331.0	18623.8	19156.6	18431.8	14726.2
60°	15235.0	15244.6	15427.0	16919.8	18772.6	19439.8	19876.6	19699.0	19919.8	18604.6	14462.2
62.5°	15935.8	15916.6	16377.4	18278.2	20620.5	21071.7	21398.1	20606.1	20275.0	18772.6	14001.4
65°	16564.6	16780.6	17505.4	19895.8	22358.1	22876.5	22679.7	21465.3	20620.5	18278.2	12705.4
67.5°	17039.8	17361.4	18619.0	21417.3	23951.7	24316.5	24042.9	22118.1	20212.6	16339.0	10348.7
70°	17318.2	17644.6	19415.8	22684.5	25223.7	25487.7	24844.5	21614.1	17831.8	11831.9	6455.9
71°	17231.8	17630.2	19569.4	22818.9	25526.1	25722.9	24724.5	20682.9	16036.6	9907.1	4708.7
72.5°	16449.4	16823.8	18931.0	22722.9	25161.3	25041.3	23788.5	18446.2	12623.8	6316.7	2433.6
75°	12086.3	12489.4	16247.8	19655.8	22458.9	21633.3	19252.6	12945.4	6585.5	1934.4	710.4
77.5°	6019.1	6086.3	10084.7	14270.2	16473.4	15652.6	12902.2	7219.1	2462.4	571.2	355.2
80°	2774.4	2793.6	3782.4	7391.9	9959.9	9374.3	7228.7	3561.6	1113.6	302.4	278.4
82.5°	1891.2	1920.0	2280.0	3062.4	4324.7	3648.0	2928.0	2280.0	638.4	182.4	273.6
85°	345.6	316.8	1276.8	1622.4	1670.4	1132.8	1012.8	1972.8	240.0	105.6	240.0
87.5°	0.0	4.8	177.6	662.4	595.2	264.0	345.6	480.0	24.0	33.6	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484975

CATALOG NUMBER: IFLD-L-SA8D-830-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5	6369.5
2.5°	6359.9	6307.1	6129.5	5932.7	5755.1	5615.9	5438.3	5356.7	5227.1	5155.1	5150.3
5°	6268.7	6124.7	5817.5	5486.3	5116.7	4809.5	4468.7	4276.7	4056.0	3988.8	3974.4
7.5°	6115.1	5908.7	5457.5	4991.9	4425.5	3883.2	3465.6	3019.2	2745.6	2630.4	2587.2
10°	6019.1	5769.5	5155.1	4459.1	3667.2	2904.0	2318.4	1843.2	1593.6	1473.6	1444.8
12.5°	6019.1	5750.3	4910.3	3950.4	2899.2	1987.2	1435.2	1161.6	1080.0	1051.2	1051.2
15°	6004.7	5711.9	4675.1	3427.2	2145.6	1334.4	1070.4	1012.8	1003.2	998.4	993.6
17.5°	6076.7	5644.7	4435.1	2865.6	1516.8	1051.2	984.0	974.4	964.8	964.8	955.2
20°	6129.5	5606.3	4147.1	2270.4	1132.8	974.4	945.6	931.2	926.4	921.6	931.2
22.5°	6086.3	5548.7	3792.0	1699.2	988.8	926.4	907.2	892.8	883.2	883.2	888.0
25°	6167.9	5495.9	3436.8	1281.6	926.4	883.2	864.0	854.4	849.6	844.8	835.2
27.5°	6278.3	5519.9	3014.4	1032.0	873.6	840.0	820.8	811.2	806.4	796.8	806.4
30°	6412.7	5515.1	2548.8	902.4	825.6	792.0	772.8	768.0	758.4	753.6	758.4
32.5°	6643.1	5639.9	2068.8	835.2	772.8	744.0	724.8	720.0	715.2	710.4	705.6
35°	7137.5	5793.5	1617.6	782.4	724.8	691.2	676.8	667.2	662.4	657.6	652.8
37.5°	7747.1	6134.3	1233.6	734.4	676.8	643.2	628.8	624.0	604.8	600.0	595.2
40°	8510.3	6499.1	950.4	681.6	633.6	600.0	585.6	571.2	547.2	537.6	528.0
42.5°	9460.7	6854.3	782.4	633.6	585.6	561.6	537.6	513.6	494.4	475.2	465.6
45°	10411.1	7267.1	686.4	590.4	547.2	518.4	499.2	465.6	432.0	403.2	398.4
47.5°	11203.1	7415.9	628.8	542.4	508.8	484.8	456.0	412.8	364.8	336.0	331.2
50°	11793.5	7329.5	571.2	494.4	465.6	441.6	403.2	350.4	302.4	273.6	264.0
52.5°	11908.7	6950.3	518.4	456.0	422.4	393.6	350.4	292.8	240.0	211.2	206.4
55°	11827.1	6321.5	475.2	422.4	384.0	340.8	292.8	235.2	187.2	158.4	153.6
57.5°	11659.1	5577.5	427.2	379.2	336.0	292.8	240.0	192.0	139.2	110.4	110.4
60°	11087.9	4564.7	379.2	331.2	288.0	249.6	196.8	139.2	96.0	72.0	67.2
62.5°	10291.1	3508.8	331.2	283.2	249.6	206.4	153.6	100.8	57.6	38.4	38.4
65°	8836.7	2457.6	278.4	235.2	206.4	168.0	115.2	62.4	33.6	14.4	14.4
67.5°	6715.1	1521.6	230.4	196.8	177.6	134.4	81.6	38.4	14.4	4.8	0.0
70°	3854.4	792.0	182.4	158.4	139.2	100.8	57.6	19.2	9.6	0.0	0.0
71°	2692.8	585.6	163.2	139.2	124.8	91.2	48.0	14.4	4.8	0.0	0.0
72.5°	1348.8	388.8	139.2	115.2	100.8	72.0	38.4	14.4	4.8	0.0	0.0
75°	480.0	249.6	96.0	76.8	72.0	52.8	24.0	9.6	4.8	0.0	0.0
77.5°	331.2	201.6	67.2	48.0	48.0	33.6	14.4	4.8	4.8	0.0	0.0
80°	302.4	110.4	43.2	28.8	24.0	19.2	9.6	4.8	0.0	0.0	0.0
82.5°	302.4	81.6	24.0	19.2	14.4	9.6	4.8	0.0	0.0	0.0	0.0
85°	211.2	43.2	14.4	14.4	9.6	4.8	0.0	0.0	0.0	0.0	0.0
87.5°	33.6	14.4	9.6	4.8	4.8	0.0	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)