

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: P484151

Luminaire Tested: **IFLD-L-SA7D-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484151
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

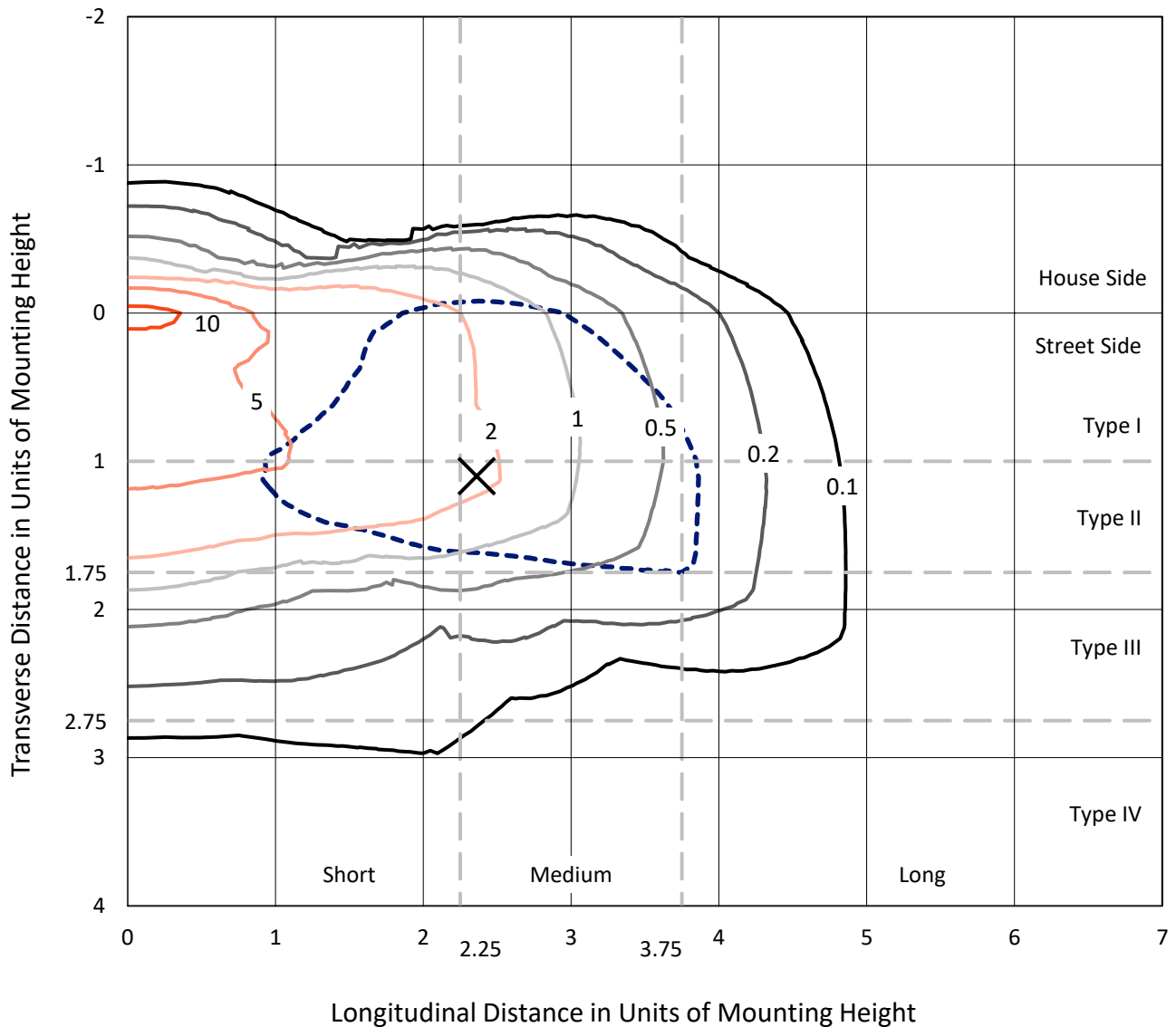
Lumens per Lamp: N/A
Luminaire Lumens: 29512.6 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

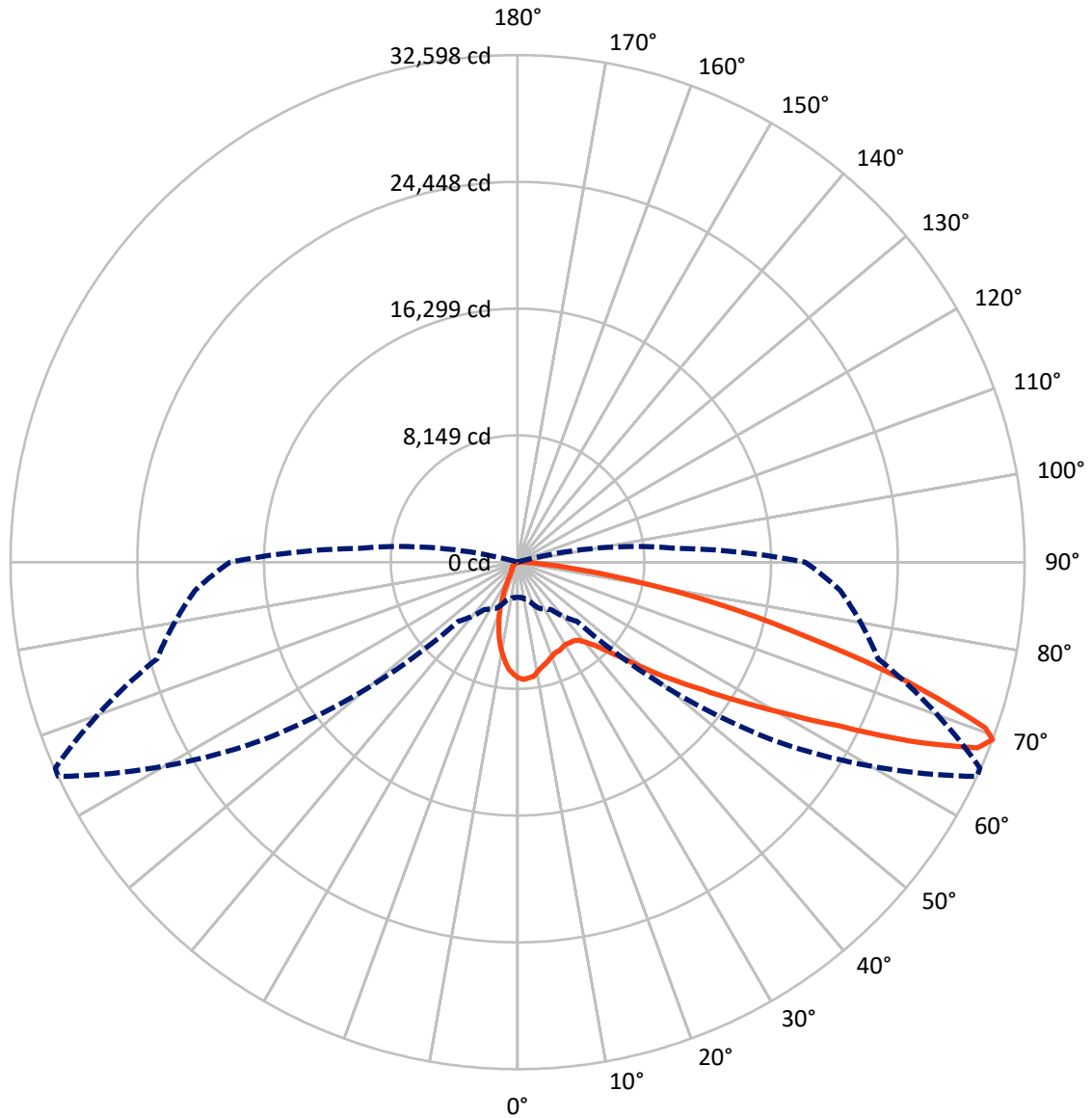
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	3580.1	0.0	3580.1
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	25932.5	0.0	25932.5
	% Fixture	87.9	0.0	87.9
Total	Lumens	29512.6	0.0	29512.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.9	2.1
10°-20°	1332.3	4.5
20°-30°	1854.8	6.3
30°-40°	2628.5	8.9
40°-50°	4142.3	14.0
50°-60°	6721.6	22.8
60°-70°	7506.7	25.4
70°-80°	4227.1	14.3
80°-90°	490.5	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°	29512.6	100.0
0°-180°	29512.6	100.0

Coefficient of Utilization



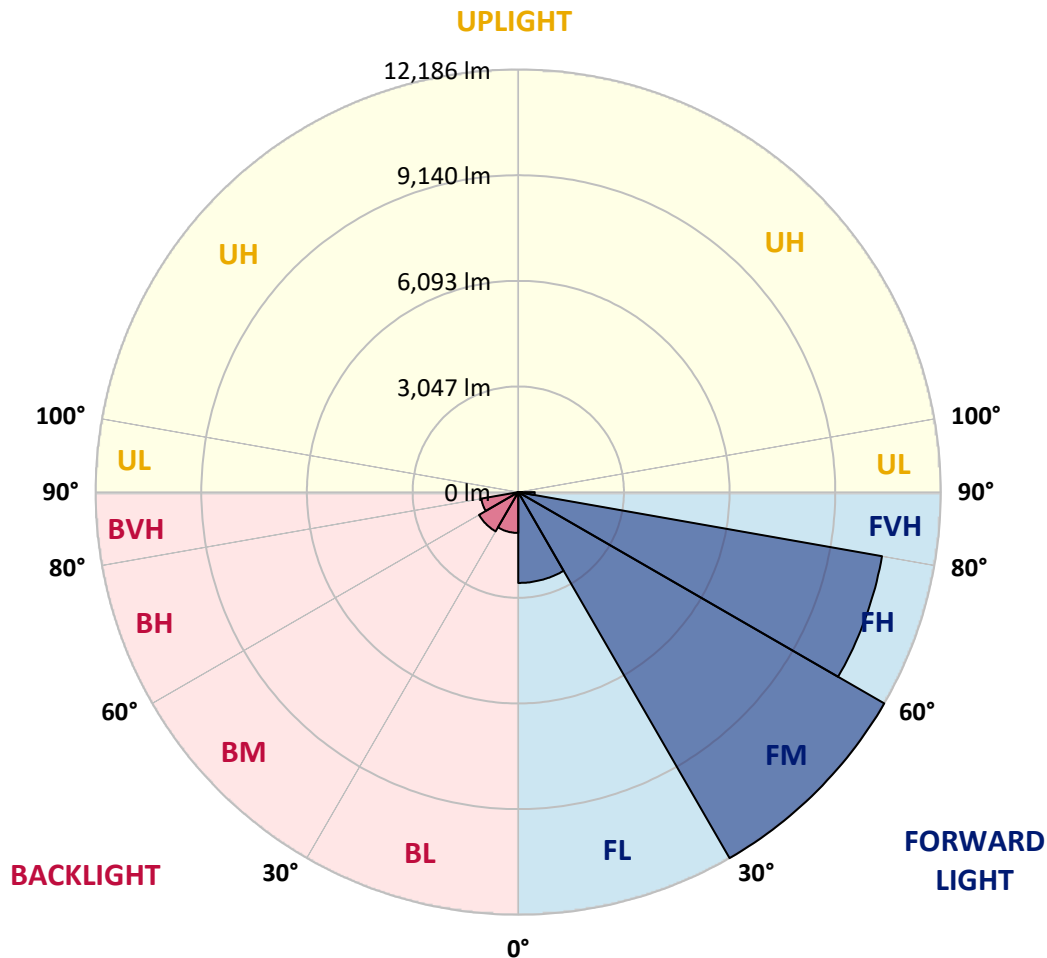
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2619.0	8.9			
FM (30°-60°)	12186.0	41.3			
FH (60°-80°)	10650.6	36.1			G4/12000
FVH (80°-90°)	477.0	1.6			G3/500
BL (0°-30°)	1177.0	4.0	B3/2500		
BM (30°-60°)	1306.3	4.4	B2/2500		
BH (60°-80°)	1083.2	3.7	B3/2500		G3/2500
BVH (80°-90°)	13.5	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°	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8
2.5°	7166.1	7221.8	7237.8	7293.5	7321.4	7440.8	7508.5	7548.3	7528.4	7572.2	7576.2
5°	6656.5	6624.7	6708.3	6768.0	6895.4	7102.4	7313.4	7476.6	7552.3	7623.9	7612.0
7.5°	6111.1	6095.2	6178.8	6314.1	6429.6	6680.4	7018.8	7420.9	7405.0	7580.2	7631.9
10°	5736.9	5752.8	5780.7	5916.0	6087.2	6342.0	6764.0	7138.2	7221.8	7592.1	7695.6
12.5°	5394.5	5422.4	5474.1	5613.5	5812.5	6075.3	6485.3	6923.3	7050.7	7524.4	7731.4
15°	5283.0	5219.3	5322.8	5426.3	5633.4	5868.2	6214.6	6760.0	6815.8	7444.8	7791.2
17.5°	5191.4	5151.6	5199.4	5283.0	5502.0	5693.1	6019.5	6584.9	6688.4	7412.9	7783.2
20°	5219.3	5183.5	5203.4	5267.1	5366.6	5545.8	5848.3	6417.6	6529.1	7265.6	7771.2
22.5°	5298.9	5326.8	5291.0	5306.9	5338.8	5430.3	5756.8	6298.2	6393.8	7237.8	7838.9
25°	5657.2	5609.5	5561.7	5541.8	5354.7	5394.5	5728.9	6290.3	6357.9	7138.2	7783.2
27.5°	6031.5	5991.7	5971.8	5856.3	5601.5	5482.1	5732.9	6178.8	6270.3	7098.4	7715.5
30°	6485.3	6537.1	6457.5	6318.1	5963.8	5669.2	5776.7	6123.0	6250.4	6947.1	7671.7
32.5°	6963.1	6990.9	7030.8	6927.2	6469.4	5951.9	5908.1	6174.8	6182.8	6947.1	7572.2
35°	7504.5	7464.7	7568.2	7576.2	7174.1	6453.5	6158.9	6210.6	6294.2	6915.3	7536.4
37.5°	7970.3	8038.0	8157.4	8348.5	7934.5	7162.1	6549.0	6377.8	6413.7	7062.6	7564.2
40°	8479.9	8547.6	8818.3	9009.4	8774.5	7958.4	7142.2	6768.0	6795.9	7281.6	7707.5
42.5°	9041.2	9172.6	9495.1	9829.5	9765.8	8969.6	7906.6	7341.3	7329.3	7827.0	8002.2
45°	9801.6	9976.8	10327.2	10713.3	10769.1	10128.1	8925.8	8197.2	8237.0	8539.6	8611.3
47.5°	10860.6	10852.7	11195.1	11625.0	11947.5	11330.4	10144.0	9347.8	9343.8	9666.3	9515.0
50°	11883.8	11887.8	11979.3	12477.0	13313.0	12998.5	11652.9	10876.6	10832.8	10992.0	10749.2
52.5°	12357.6	12301.8	12234.1	12835.3	14364.1	15100.6	13563.9	12608.4	12572.5	12477.0	12413.3
55°	11859.9	11879.8	11875.8	12500.9	14917.5	17318.1	16016.3	14515.4	14455.6	14157.0	14244.6
57.5°	10263.5	10199.8	10339.1	11314.5	14284.4	18830.9	19523.7	16920.0	16764.7	15773.4	15574.3
60°	7639.9	7659.8	7775.2	8925.8	12711.9	19149.4	22879.8	19742.6	19073.8	16912.0	16637.3
62.5°	5334.8	5295.0	5338.8	5983.7	9089.0	17875.5	25149.1	23174.4	22529.5	18205.9	18046.7
65°	3817.9	3766.2	3941.4	4335.5	5458.2	13667.4	25471.5	27744.8	27167.5	20272.1	19889.9
67.5°	2747.0	2739.0	2942.1	3658.7	3877.7	7870.8	23082.8	31885.2	31534.9	22724.5	21012.6
69°	2273.2	2277.2	2472.3	3276.5	3702.5	5374.6	19862.1	32597.8	32534.1	23990.5	20801.6
70°	1982.6	1998.5	2225.5	3049.6	3630.8	4419.1	17123.0	31897.2	31833.5	24237.4	20104.9
72.5°	1222.2	1234.2	1532.8	2444.4	3451.7	3606.9	10239.6	26096.6	26315.5	23106.7	17322.1
75°	585.2	589.2	804.2	1767.6	3328.3	3419.8	5486.1	19256.9	19718.7	18655.8	13536.0
77.5°	310.5	310.5	386.2	939.6	2695.3	3216.8	3256.6	13583.8	13966.0	11796.2	7695.6
80°	155.3	159.2	234.9	489.7	1672.1	3153.1	2544.0	8101.7	8308.7	4813.2	2396.7
82.5°	59.7	63.7	111.5	294.6	867.9	2663.4	2233.4	3985.2	3933.4	1126.7	585.2
85°	8.0	8.0	39.8	175.2	370.2	1174.4	1843.3	1664.1	1608.4	246.8	282.7
87.5°	0.0	0.0	8.0	51.8	111.5	342.4	712.6	457.8	509.6	67.7	139.3
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°	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8	7440.8
2.5°	7556.3	7472.7	7345.3	7221.8	7090.5	6931.2	6756.0	6692.4	6580.9	6572.9	6636.6
5°	7548.3	7412.9	7190.0	6927.2	6553.0	6270.3	5963.8	5740.9	5569.7	5458.2	5486.1
7.5°	7588.1	7424.9	7038.7	6473.4	5991.7	5430.3	4956.6	4630.1	4331.5	4184.2	4168.3
10°	7524.4	7305.5	6740.1	5947.9	5239.2	4454.9	3762.2	3324.3	2878.4	2715.2	2723.1
12.5°	7560.2	7253.7	6417.6	5406.4	4431.0	3411.9	2583.8	1986.6	1568.6	1433.2	1417.3
15°	7584.1	7142.2	6107.1	4757.5	3535.3	2325.0	1496.9	1126.7	995.3	971.4	967.4
17.5°	7492.6	7006.9	5669.2	4116.5	2619.6	1413.3	995.3	919.7	895.8	879.8	871.9
20°	7488.6	6927.2	5291.0	3459.6	1747.7	963.4	859.9	832.1	796.2	784.3	784.3
22.5°	7420.9	6760.0	4837.1	2739.0	1114.7	828.1	772.3	728.6	688.7	672.8	668.8
25°	7401.0	6565.0	4411.1	2058.3	848.0	740.5	684.8	621.1	573.3	549.4	537.5
27.5°	7345.3	6397.7	3981.2	1449.1	740.5	660.9	589.2	521.5	465.8	430.0	426.0
30°	7146.2	6222.6	3503.4	1003.3	672.8	585.2	505.6	426.0	370.2	346.4	338.4
32.5°	7062.6	6059.3	2981.9	772.3	613.1	517.6	426.0	354.3	310.5	286.6	282.7
35°	6963.1	5820.5	2476.3	672.8	557.4	449.9	358.3	298.6	262.8	242.9	242.9
37.5°	6975.0	5629.4	2002.5	609.1	497.6	386.2	306.6	254.8	222.9	203.0	203.0
40°	6939.2	5478.1	1556.6	553.4	441.9	330.4	258.8	215.0	187.1	167.2	163.2
42.5°	7102.4	5438.3	1174.4	505.6	386.2	282.7	222.9	183.1	155.3	131.4	131.4
45°	7377.1	5502.0	915.7	461.8	330.4	242.9	191.1	151.3	123.4	107.5	103.5
47.5°	8109.6	5752.8	716.6	426.0	282.7	211.0	159.2	123.4	99.5	83.6	79.6
50°	9172.6	6314.1	609.1	374.2	238.9	179.2	131.4	95.5	79.6	63.7	59.7
52.5°	10685.5	7257.7	553.4	330.4	199.1	147.3	103.5	75.6	59.7	47.8	43.8
55°	12333.7	8436.1	501.6	278.7	167.2	119.4	83.6	59.7	43.8	31.8	27.9
57.5°	13619.6	9455.3	457.8	230.9	135.4	95.5	63.7	43.8	31.8	19.9	15.9
60°	15024.9	10171.9	402.1	183.1	111.5	71.7	47.8	31.8	23.9	11.9	11.9
62.5°	16474.1	11011.9	330.4	143.3	87.6	55.7	35.8	23.9	15.9	4.0	4.0
65°	18488.6	11668.8	254.8	111.5	67.7	39.8	27.9	19.9	8.0	0.0	0.0
67.5°	19057.9	11346.3	187.1	87.6	47.8	27.9	19.9	11.9	4.0	0.0	0.0
69°	18488.6	10219.7	163.2	75.6	39.8	23.9	15.9	8.0	4.0	0.0	0.0
70°	17449.5	9343.8	143.3	63.7	35.8	23.9	11.9	8.0	4.0	0.0	0.0
72.5°	14595.0	7166.1	111.5	47.8	27.9	19.9	11.9	8.0	0.0	0.0	0.0
75°	10705.4	4427.1	83.6	35.8	23.9	15.9	11.9	8.0	0.0	0.0	0.0
77.5°	5736.9	1616.4	59.7	23.9	15.9	11.9	11.9	8.0	0.0	0.0	0.0
80°	1572.6	477.7	43.8	15.9	11.9	8.0	8.0	4.0	0.0	0.0	0.0
82.5°	430.0	123.4	27.9	15.9	11.9	8.0	4.0	0.0	0.0	0.0	0.0
85°	230.9	47.8	15.9	11.9	8.0	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	119.4	15.9	11.9	8.0	8.0	4.0	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)