

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: P484935

Luminaire Tested: **IFLD-L-SA8C-827-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484935
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

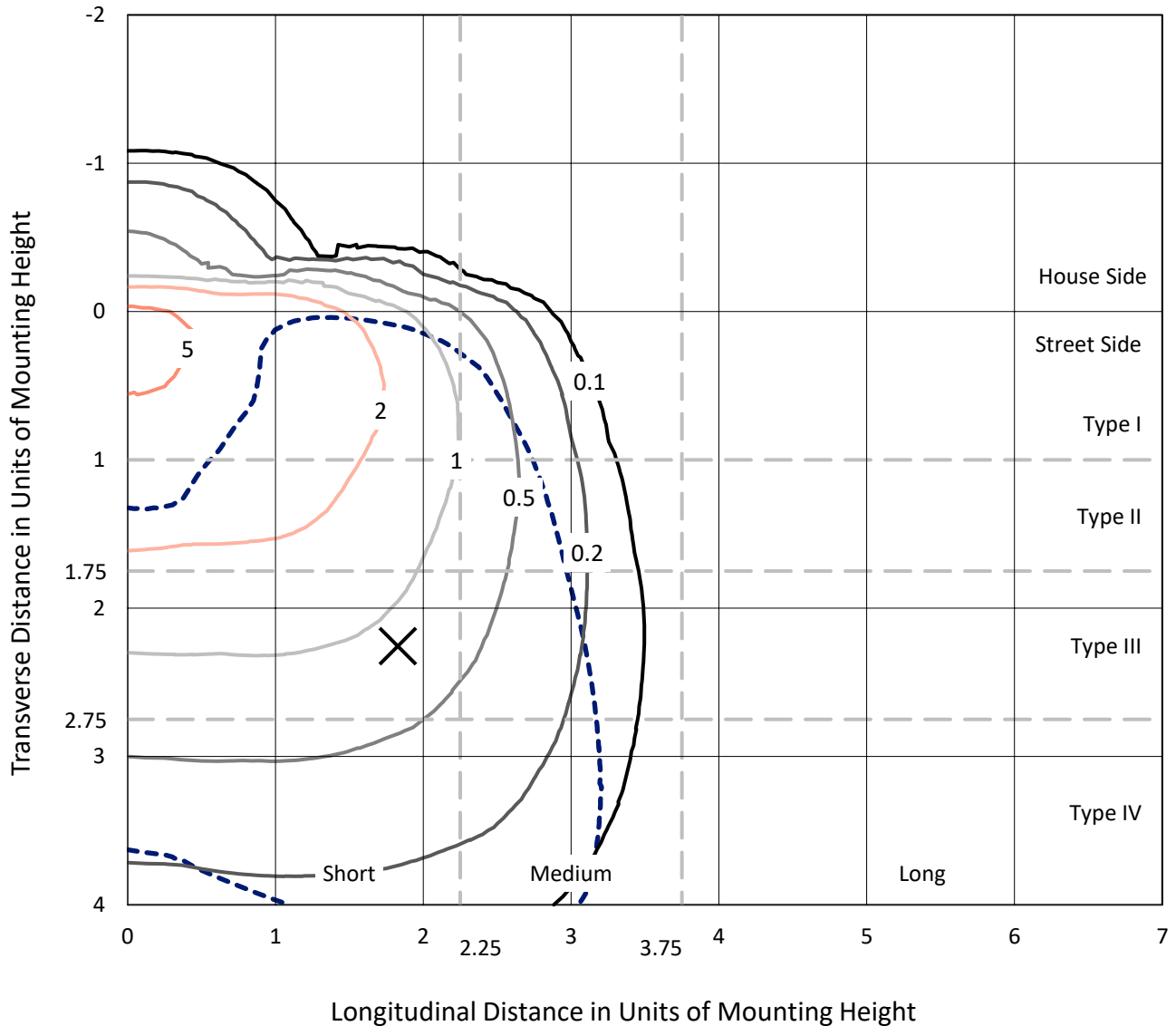
Lumens per Lamp: N/A
Luminaire Lumens: 30767.1 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 420.3
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: P484935
 CATALOG NUMBER: IFLD-L-SA8C-827-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

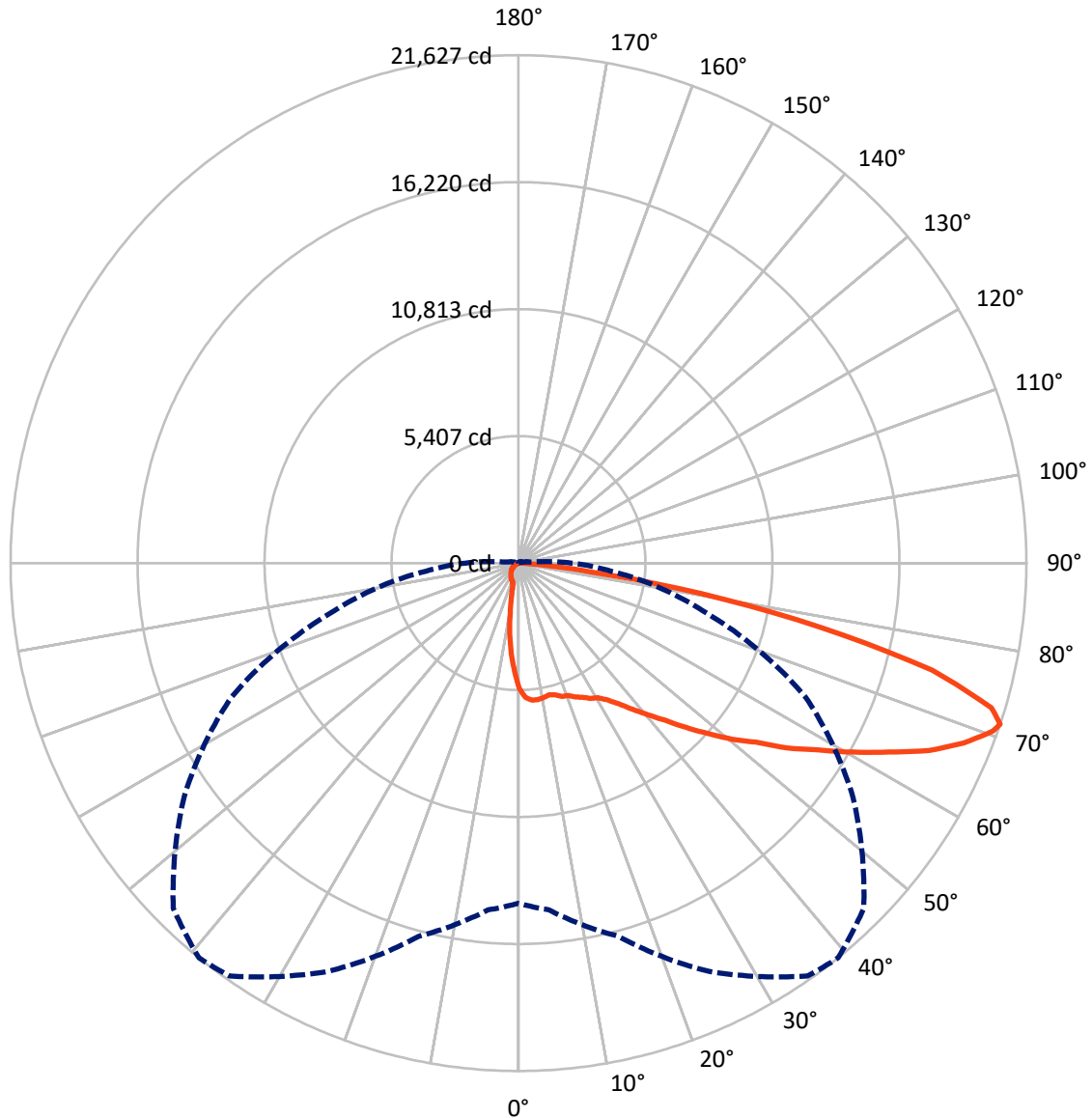
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P484935
CATALOG NUMBER: IFLD-L-SA8C-827-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484935
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2316.3	0.0	2316.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	28450.9	0.0	28450.9
	% Fixture	92.5	0.0	92.5
Total	Lumens	30767.1	0.0	30767.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.7	1.5
10°-20°	1102.0	3.6
20°-30°	1769.1	5.8
30°-40°	2708.1	8.8
40°-50°	4347.0	14.1
50°-60°	6385.0	20.8
60°-70°	8041.7	26.1
70°-80°	5366.8	17.4
80°-90°	599.8	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°	30767.1	100.0
0°-180°	30767.1	100.0

Coefficient of Utilization



REPORT NUMBER: P484935

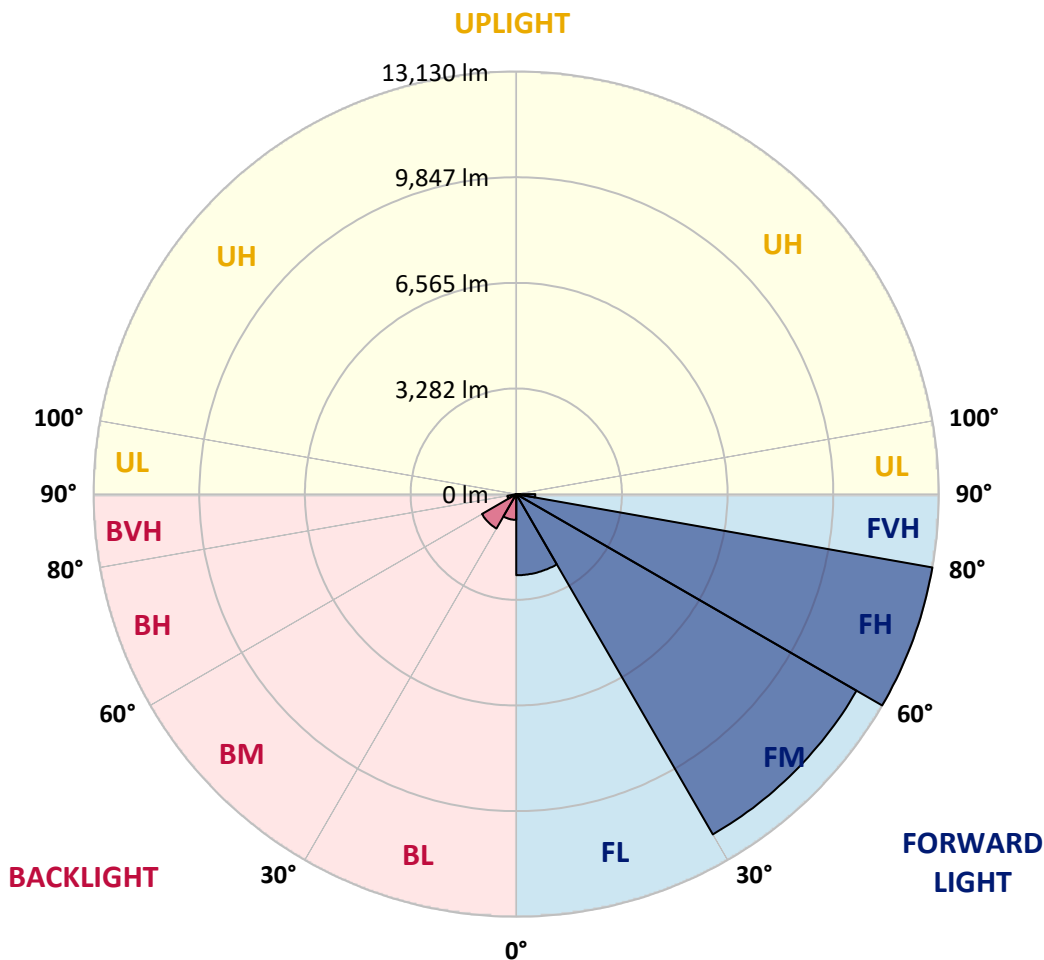
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2519.2	8.2			
FM (30°-60°)	12208.9	39.7			
FH (60°-80°)	13129.7	42.7			G5
FVH (80°-90°)	593.2	1.9			G4/750
BL (0°-30°)	799.7	2.6	B2/1000		
BM (30°-60°)	1231.2	4.0	B2/2500		
BH (60°-80°)	278.8	0.9	B1/500		G1/500
BVH (80°-90°)	6.6	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: P484935

CATALOG NUMBER: IFLD-L-SA8C-827-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2
2.5°	5770.9	5827.4	5770.9	5746.7	5722.5	5726.5	5661.9	5674.0	5597.4	5496.5	5415.8
5°	5952.5	6029.2	5968.6	5940.4	5936.3	5859.7	5827.4	5750.7	5657.9	5500.5	5403.6
7.5°	5936.3	5920.2	5948.5	5924.2	5871.8	5871.8	5835.5	5726.5	5633.7	5456.1	5290.7
10°	5815.3	5863.7	5839.5	5811.2	5823.3	5827.4	5758.8	5682.1	5653.9	5476.3	5205.9
12.5°	5803.2	5722.5	5811.2	5815.3	5762.8	5758.8	5750.7	5730.5	5641.7	5480.3	5226.1
15°	5762.8	5730.5	5819.3	5823.3	5835.5	5823.3	5835.5	5819.3	5730.5	5637.7	5314.9
17.5°	5795.1	5758.8	5883.9	5944.4	5916.2	5972.7	5952.5	5879.8	5803.2	5694.2	5399.6
20°	5803.2	5855.6	5992.8	6017.1	6105.8	6013.0	6009.0	5932.3	5883.9	5766.9	5452.1
22.5°	5952.5	5976.7	6146.2	6198.7	6202.7	6190.6	6089.7	6000.9	5980.7	5835.5	5464.2
25°	6178.5	6263.2	6339.9	6372.2	6384.3	6327.8	6222.9	6109.9	6061.4	5968.6	5589.3
27.5°	6578.0	6525.5	6594.1	6642.6	6505.4	6525.5	6392.4	6295.5	6226.9	6146.2	5734.6
30°	6933.1	6884.7	6888.7	6880.7	6763.6	6654.7	6618.4	6448.9	6364.1	6396.4	5960.6
32.5°	7251.9	7147.0	7235.8	7195.4	6977.5	6945.2	6917.0	6703.1	6719.2	6868.6	6299.5
35°	7546.5	7510.2	7582.9	7510.2	7364.9	7356.9	7328.6	7143.0	7231.8	7445.7	6880.7
37.5°	7816.9	7829.0	7917.8	7881.5	7893.6	7901.7	7885.5	7687.8	7942.0	8422.3	7558.7
40°	8067.1	8051.0	8268.9	8381.9	8406.1	8494.9	8494.9	8446.5	8837.9	9378.7	8498.9
42.5°	8333.5	8373.8	8656.3	8846.0	9076.0	9152.7	9257.6	9281.8	9887.2	10504.6	9459.4
45°	8769.3	8700.7	9059.9	9507.8	9709.6	9980.0	10141.4	10278.6	11009.1	11856.5	10419.9
47.5°	9322.2	9185.0	9499.8	10149.5	10617.6	10839.6	11130.1	11311.7	12026.0	12901.8	11327.9
50°	9935.6	9794.4	9947.7	10843.6	11388.4	11792.0	12163.3	12393.3	13256.9	14072.1	11989.7
52.5°	10629.7	10500.6	10524.8	11566.0	12369.1	12663.7	13152.0	13495.0	14354.6	14778.3	12223.8
55°	11368.2	11336.0	11259.3	12272.2	13228.6	13890.5	14185.1	14596.7	15480.5	15161.7	12478.0
57.5°	12110.8	12009.9	12118.9	13208.5	14608.8	15004.3	15411.9	15658.1	16106.0	15496.6	12381.2
60°	12808.9	12817.0	12970.4	14225.4	15783.2	16344.1	16711.4	16562.0	16747.7	15641.9	12159.2
62.5°	13398.1	13382.0	13769.4	15367.5	17336.9	17716.2	17990.6	17324.8	17046.3	15783.2	11771.8
65°	13926.8	14108.4	14717.8	16727.5	18797.8	19233.6	19068.1	18047.1	17336.9	15367.5	10682.2
67.5°	14326.3	14596.7	15654.0	18006.8	20137.6	20444.3	20214.2	18596.0	16993.8	13737.1	8700.7
70°	14560.4	14834.8	16323.9	19072.2	21207.0	21429.0	20888.2	18172.2	14992.2	9947.7	5427.9
71°	14487.8	14822.7	16453.1	19185.2	21461.2	21626.7	20787.3	17389.3	13482.9	8329.4	3958.9
72.5°	13830.0	14144.7	15916.3	19104.5	21154.5	21053.6	20000.4	15508.8	10613.6	5310.8	2046.0
75°	10161.6	10500.6	13660.5	16525.7	18882.5	18188.4	16186.7	10884.0	5536.8	1626.3	597.3
77.5°	5060.6	5117.1	8478.8	11997.8	13850.1	13160.0	10847.7	6069.5	2070.3	480.2	298.6
80°	2332.6	2348.7	3180.0	6214.8	8373.8	7881.5	6077.6	2994.4	936.3	254.2	234.1
82.5°	1590.0	1614.2	1916.9	2574.7	3636.1	3067.0	2461.7	1916.9	536.7	153.4	230.0
85°	290.6	266.3	1073.5	1364.0	1404.4	952.4	851.5	1658.6	201.8	88.8	201.8
87.5°	0.0	4.0	149.3	556.9	500.4	222.0	290.6	403.6	20.2	28.2	36.3
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: P484935

CATALOG NUMBER: IFLD-L-SA8C-827-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2	5355.2
2.5°	5347.2	5302.8	5153.4	4988.0	4838.7	4721.6	4572.3	4503.7	4394.8	4334.2	4330.2
5°	5270.5	5149.4	4891.1	4612.7	4301.9	4043.7	3757.1	3595.7	3410.1	3353.6	3341.5
7.5°	5141.3	4967.8	4588.5	4197.0	3720.8	3264.8	2913.7	2538.4	2308.4	2211.5	2175.2
10°	5060.6	4850.8	4334.2	3749.1	3083.2	2441.5	1949.2	1549.7	1339.8	1238.9	1214.7
12.5°	5060.6	4834.6	4128.4	3321.3	2437.5	1670.7	1206.6	976.6	908.0	883.8	883.8
15°	5048.5	4802.3	3930.7	2881.4	1803.9	1121.9	899.9	851.5	843.4	839.4	835.4
17.5°	5109.1	4745.8	3728.9	2409.2	1275.2	883.8	827.3	819.2	811.2	811.2	803.1
20°	5153.4	4713.6	3486.7	1908.8	952.4	819.2	795.0	782.9	778.9	774.8	782.9
22.5°	5117.1	4665.1	3188.1	1428.6	831.3	778.9	762.7	750.6	742.5	742.5	746.6
25°	5185.7	4620.7	2889.5	1077.5	778.9	742.5	726.4	718.3	714.3	710.3	702.2
27.5°	5278.5	4640.9	2534.3	867.7	734.5	706.2	690.1	682.0	678.0	669.9	678.0
30°	5391.5	4636.9	2142.9	758.7	694.1	665.9	649.7	645.7	637.6	633.6	637.6
32.5°	5585.2	4741.8	1739.3	702.2	649.7	625.5	609.4	605.3	601.3	597.3	593.2
35°	6000.9	4871.0	1360.0	657.8	609.4	581.1	569.0	560.9	556.9	552.9	548.8
37.5°	6513.4	5157.5	1037.1	617.4	569.0	540.8	528.7	524.6	508.5	504.4	500.4
40°	7155.1	5464.2	799.0	573.1	532.7	504.4	492.3	480.2	460.1	452.0	443.9
42.5°	7954.1	5762.8	657.8	532.7	492.3	472.2	452.0	431.8	415.7	399.5	391.5
45°	8753.2	6109.9	577.1	496.4	460.1	435.8	419.7	391.5	363.2	339.0	335.0
47.5°	9419.1	6235.0	528.7	456.0	427.8	407.6	383.4	347.1	306.7	282.5	278.5
50°	9915.4	6162.3	480.2	415.7	391.5	371.3	339.0	294.6	254.2	230.0	222.0
52.5°	10012.3	5843.5	435.8	383.4	355.1	330.9	294.6	246.2	201.8	177.6	173.5
55°	9943.7	5314.9	399.5	355.1	322.8	286.5	246.2	197.7	157.4	133.2	129.1
57.5°	9802.4	4689.3	359.2	318.8	282.5	246.2	201.8	161.4	117.0	92.8	92.8
60°	9322.2	3837.8	318.8	278.5	242.1	209.9	165.5	117.0	80.7	60.5	56.5
62.5°	8652.3	2950.0	278.5	238.1	209.9	173.5	129.1	84.7	48.4	32.3	32.3
65°	7429.5	2066.2	234.1	197.7	173.5	141.2	96.9	52.5	28.2	12.1	12.1
67.5°	5645.8	1279.3	193.7	165.5	149.3	113.0	68.6	32.3	12.1	4.0	0.0
70°	3240.6	665.9	153.4	133.2	117.0	84.7	48.4	16.1	8.1	0.0	0.0
71°	2264.0	492.3	137.2	117.0	104.9	76.7	40.4	12.1	4.0	0.0	0.0
72.5°	1134.0	326.9	117.0	96.9	84.7	60.5	32.3	12.1	4.0	0.0	0.0
75°	403.6	209.9	80.7	64.6	60.5	44.4	20.2	8.1	4.0	0.0	0.0
77.5°	278.5	169.5	56.5	40.4	40.4	28.2	12.1	4.0	4.0	0.0	0.0
80°	254.2	92.8	36.3	24.2	20.2	16.1	8.1	4.0	0.0	0.0	0.0
82.5°	254.2	68.6	20.2	16.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0
85°	177.6	36.3	12.1	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.2	12.1	8.1	4.0	4.0	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)