

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: P484803

Luminaire Tested: **IFLD-S-SA6C-740-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484803
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-740-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (96) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

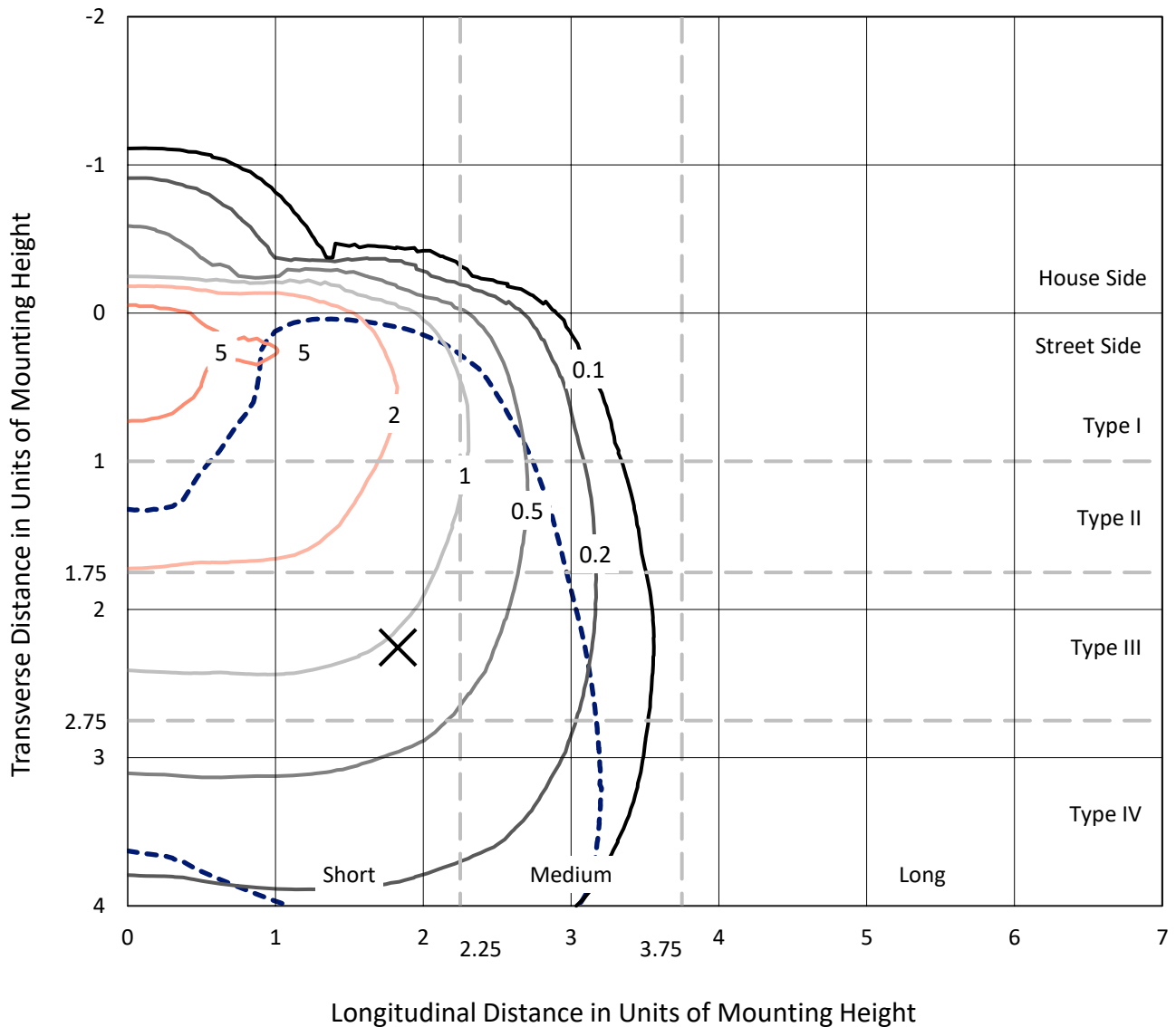
Lumens per Lamp: N/A
Luminaire Lumens: 34326.7 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 321.5
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: P484803
 CATALOG NUMBER: IFLD-S-SA6C-740-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

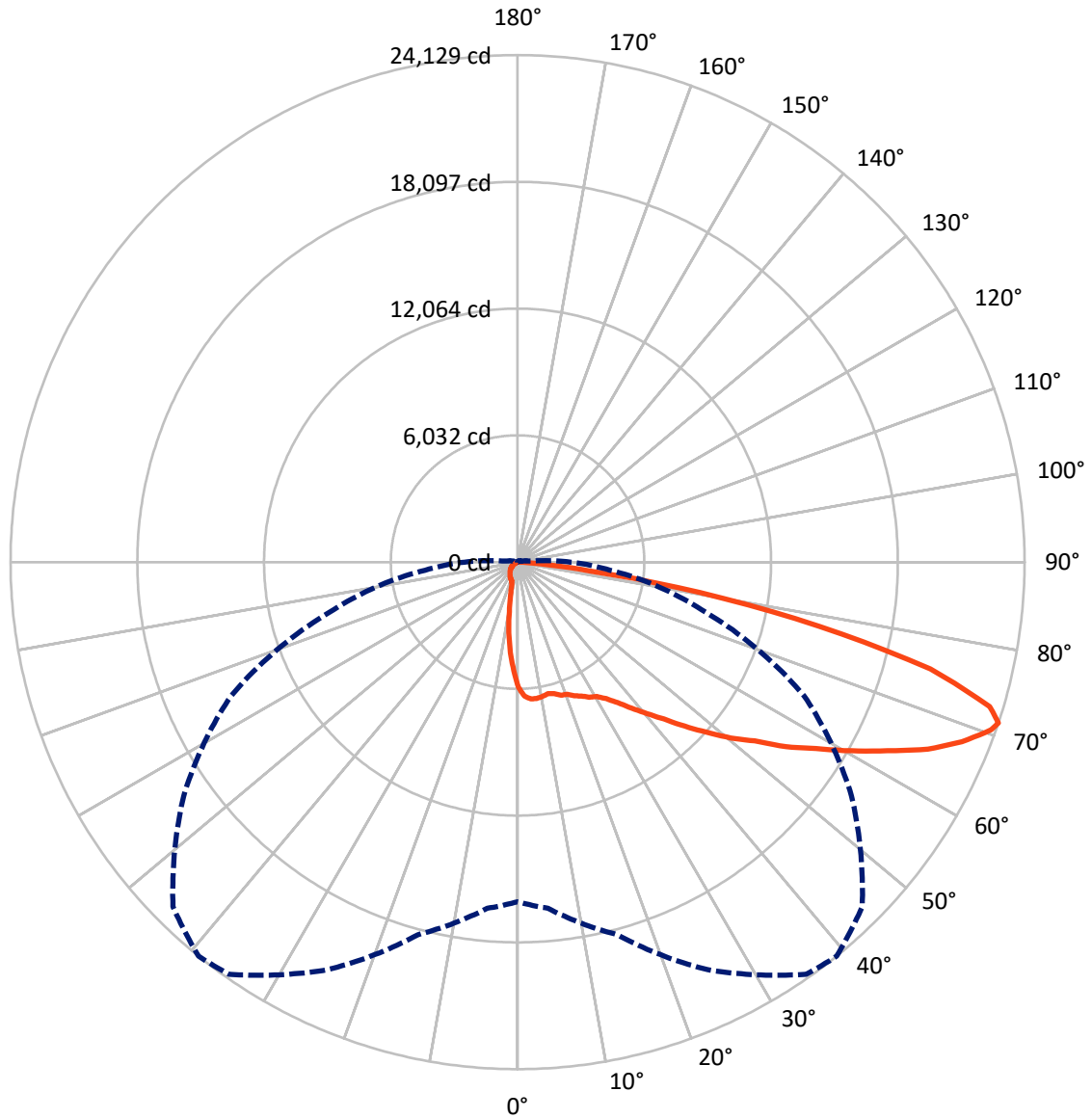
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P484803
CATALOG NUMBER: IFLD-S-SA6C-740-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484803
 CATALOG NUMBER: IFLD-S-SA6C-740-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2584.3	0.0	2584.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	31742.4	0.0	31742.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	34326.7	0.0	34326.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.5	1.5
10°-20°	1229.5	3.6
20°-30°	1973.8	5.8
30°-40°	3021.4	8.8
40°-50°	4849.9	14.1
50°-60°	7123.7	20.8
60°-70°	8972.0	26.1
70°-80°	5987.7	17.4
80°-90°	669.1	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°	34326.7	100.0
0°-180°	34326.7	100.0

Coefficient of Utilization



REPORT NUMBER: P484803

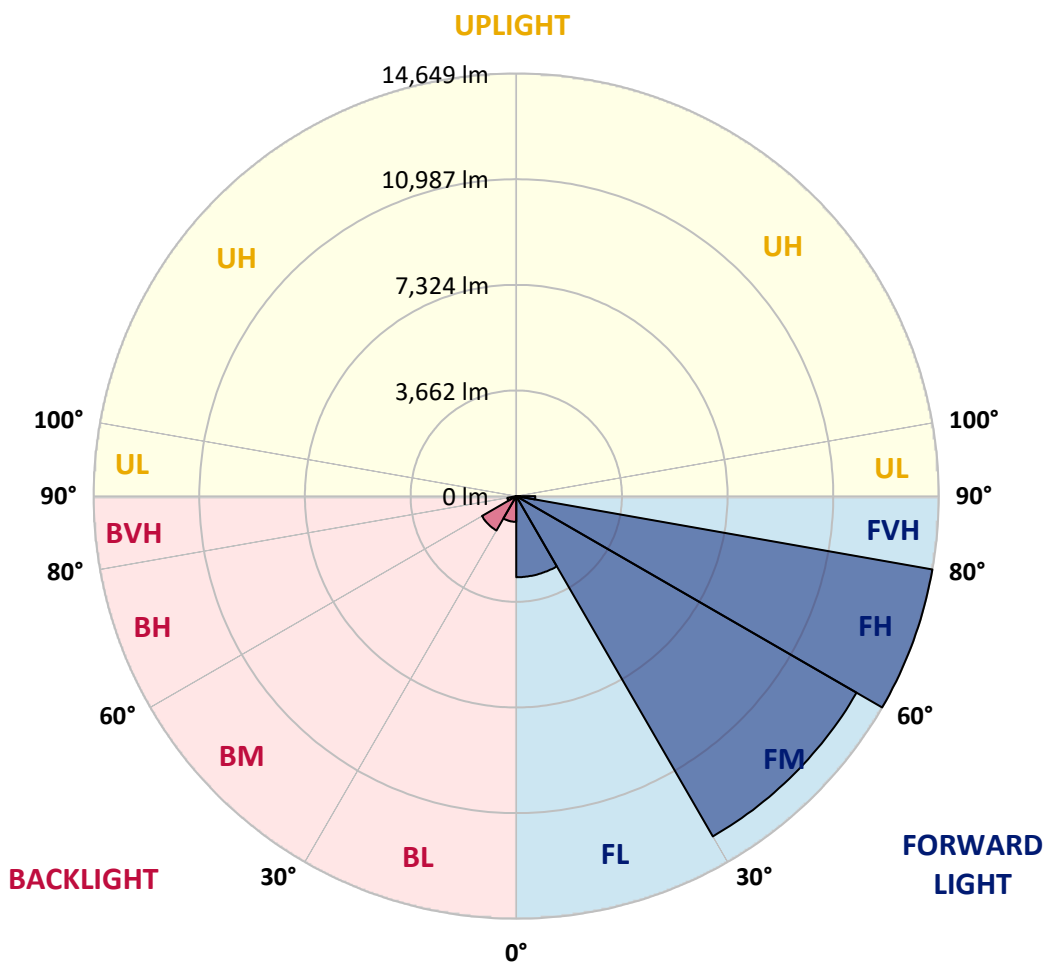
CATALOG NUMBER: IFLD-S-SA6C-740-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2810.6	8.2			
FM (30°-60°)	13621.3	39.7			
FH (60°-80°)	14648.7	42.7			G5
FVH (80°-90°)	661.8	1.9			G4/750
BL (0°-30°)	892.2	2.6	B2/1000		
BM (30°-60°)	1373.6	4.0	B2/2500		
BH (60°-80°)	311.0	0.9	B1/500		G1/500
BVH (80°-90°)	7.4	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: P484803

CATALOG NUMBER: IFLD-S-SA6C-740-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8
2.5°	6438.5	6501.6	6438.5	6411.5	6384.5	6389.0	6317.0	6330.5	6244.9	6132.4	6042.3
5°	6641.1	6726.7	6659.2	6627.6	6623.1	6537.6	6501.6	6416.0	6312.5	6136.9	6028.8
7.5°	6623.1	6605.1	6636.6	6609.6	6551.1	6551.1	6510.6	6389.0	6285.4	6087.3	5902.7
10°	6488.1	6542.1	6515.1	6483.6	6497.1	6501.6	6425.0	6339.5	6308.0	6109.9	5808.2
12.5°	6474.6	6384.5	6483.6	6488.1	6429.5	6425.0	6416.0	6393.5	6294.5	6114.4	5830.7
15°	6429.5	6393.5	6492.6	6497.1	6510.6	6497.1	6510.6	6492.6	6393.5	6290.0	5929.8
17.5°	6465.5	6425.0	6564.6	6632.1	6600.6	6663.7	6641.1	6560.1	6474.6	6353.0	6024.3
20°	6474.6	6533.1	6686.2	6713.2	6812.2	6708.7	6704.2	6618.6	6564.6	6434.0	6082.8
22.5°	6641.1	6668.2	6857.3	6915.8	6920.3	6906.8	6794.2	6695.2	6672.7	6510.6	6096.3
25°	6893.3	6987.8	7073.4	7109.4	7122.9	7059.9	6942.8	6816.7	6762.7	6659.2	6235.9
27.5°	7339.0	7280.5	7357.0	7411.1	7258.0	7280.5	7131.9	7023.9	6947.3	6857.3	6398.0
30°	7735.2	7681.2	7685.7	7676.7	7546.1	7424.6	7384.1	7194.9	7100.4	7136.4	6650.1
32.5°	8090.9	7973.9	8072.9	8027.9	7784.8	7748.8	7717.2	7478.6	7496.6	7663.2	7028.4
35°	8419.6	8379.1	8460.1	8379.1	8217.0	8208.0	8176.5	7969.4	8068.4	8307.1	7676.7
37.5°	8721.3	8734.8	8833.8	8793.3	8806.8	8815.8	8797.8	8577.2	8860.9	9396.7	8433.1
40°	9000.4	8982.4	9225.6	9351.6	9378.6	9477.7	9477.7	9423.7	9860.4	10463.7	9482.2
42.5°	9297.6	9342.6	9657.8	9869.4	10126.1	10211.6	10328.7	10355.7	11031.1	11719.9	10553.8
45°	9783.9	9707.3	10108.0	10607.8	10832.9	11134.6	11314.7	11467.8	12282.7	13228.3	11625.4
47.5°	10400.7	10247.6	10598.8	11323.7	11846.0	12093.6	12417.8	12620.4	13417.4	14394.4	12638.4
50°	11085.1	10927.5	11098.6	12098.1	12706.0	13156.2	13570.4	13827.1	14790.6	15700.1	13376.8
52.5°	11859.5	11715.4	11742.4	12904.1	13800.1	14128.8	14673.6	15056.3	16015.3	16488.0	13638.0
55°	12683.5	12647.4	12561.9	13692.0	14759.1	15497.5	15826.2	16285.4	17271.5	16915.8	13921.6
57.5°	13511.9	13399.4	13520.9	14736.6	16298.9	16740.2	17194.9	17469.6	17969.4	17289.5	13813.6
60°	14290.8	14299.8	14470.9	15871.2	17609.2	18235.0	18644.7	18478.1	18685.3	17451.6	13565.9
62.5°	14948.2	14930.2	15362.4	17145.4	19342.6	19765.8	20072.0	19329.1	19018.4	17609.2	13133.7
65°	15538.0	15740.6	16420.5	18662.7	20972.5	21458.8	21274.2	20135.0	19342.6	17145.4	11918.0
67.5°	15983.8	16285.4	17465.1	20090.0	22467.3	22809.5	22552.9	20747.4	18959.9	15326.4	9707.3
70°	16244.9	16551.1	18212.5	21278.7	23660.5	23908.1	23304.8	20274.6	16726.7	11098.6	6055.8
71°	16163.9	16537.6	18356.6	21404.7	23944.1	24128.7	23192.2	19401.1	15042.8	9293.1	4416.9
72.5°	15430.0	15781.2	17757.7	21314.7	23602.0	23489.4	22314.2	17303.0	11841.5	5925.3	2282.8
75°	11337.2	11715.4	15240.9	18437.6	21067.1	20292.6	18059.4	12143.2	6177.4	1814.5	666.4
77.5°	5646.1	5709.1	9459.7	13385.8	15452.5	14682.6	12102.6	6771.7	2309.8	535.8	333.2
80°	2602.4	2620.4	3547.9	6933.8	9342.6	8793.3	6780.7	3340.8	1044.6	283.7	261.1
82.5°	1774.0	1801.0	2138.7	2872.6	4056.7	3421.9	2746.5	2138.7	598.8	171.1	256.6
85°	324.2	297.2	1197.7	1521.8	1566.9	1062.6	950.0	1850.5	225.1	99.1	225.1
87.5°	0.0	4.5	166.6	621.3	558.3	247.6	324.2	450.2	22.5	31.5	40.5
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: P484803

CATALOG NUMBER: IFLD-S-SA6C-740-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8	5974.8
2.5°	5965.8	5916.2	5749.7	5565.1	5398.5	5267.9	5101.3	5024.8	4903.2	4835.7	4831.2
5°	5880.2	5745.2	5457.0	5146.3	4799.6	4511.5	4191.8	4011.7	3804.6	3741.6	3728.0
7.5°	5736.1	5542.5	5119.3	4682.6	4151.3	3642.5	3250.8	2832.1	2575.4	2467.4	2426.8
10°	5646.1	5412.0	4835.7	4182.8	3439.9	2724.0	2174.7	1728.9	1494.8	1382.3	1355.2
12.5°	5646.1	5394.0	4606.0	3705.5	2719.5	1864.0	1346.2	1089.6	1013.1	986.0	986.0
15°	5632.6	5357.9	4385.4	3214.8	2012.6	1251.7	1004.1	950.0	941.0	936.5	932.0
17.5°	5700.1	5294.9	4160.3	2688.0	1422.8	986.0	923.0	914.0	905.0	905.0	896.0
20°	5749.7	5258.9	3890.1	2129.7	1062.6	914.0	887.0	873.5	869.0	864.5	873.5
22.5°	5709.1	5204.9	3557.0	1593.9	927.5	869.0	851.0	837.5	828.5	828.5	833.0
25°	5785.7	5155.3	3223.8	1202.2	869.0	828.5	810.4	801.4	796.9	792.4	783.4
27.5°	5889.2	5177.8	2827.6	968.0	819.4	787.9	769.9	760.9	756.4	747.4	756.4
30°	6015.3	5173.3	2390.8	846.5	774.4	742.9	724.9	720.4	711.4	706.9	711.4
32.5°	6231.4	5290.4	1940.6	783.4	724.9	697.9	679.9	675.4	670.9	666.4	661.9
35°	6695.2	5434.5	1517.3	733.9	679.9	648.4	634.8	625.8	621.3	616.8	612.3
37.5°	7267.0	5754.2	1157.1	688.9	634.8	603.3	589.8	585.3	567.3	562.8	558.3
40°	7982.9	6096.3	891.5	639.4	594.3	562.8	549.3	535.8	513.3	504.3	495.3
42.5°	8874.4	6429.5	733.9	594.3	549.3	526.8	504.3	481.8	463.8	445.7	436.7
45°	9765.9	6816.7	643.9	553.8	513.3	486.3	468.3	436.7	405.2	378.2	373.7
47.5°	10508.8	6956.3	589.8	508.8	477.3	454.7	427.7	387.2	342.2	315.2	310.7
50°	11062.6	6875.3	535.8	463.8	436.7	414.2	378.2	328.7	283.7	256.6	247.6
52.5°	11170.6	6519.6	486.3	427.7	396.2	369.2	328.7	274.7	225.1	198.1	193.6
55°	11094.1	5929.8	445.7	396.2	360.2	319.7	274.7	220.6	175.6	148.6	144.1
57.5°	10936.5	5231.9	400.7	355.7	315.2	274.7	225.1	180.1	130.6	103.6	103.6
60°	10400.7	4281.8	355.7	310.7	270.1	234.1	184.6	130.6	90.0	67.5	63.0
62.5°	9653.3	3291.3	310.7	265.6	234.1	193.6	144.1	94.6	54.0	36.0	36.0
65°	8289.0	2305.3	261.1	220.6	193.6	157.6	108.1	58.5	31.5	13.5	13.5
67.5°	6299.0	1427.3	216.1	184.6	166.6	126.1	76.5	36.0	13.5	4.5	0.0
70°	3615.5	742.9	171.1	148.6	130.6	94.6	54.0	18.0	9.0	0.0	0.0
71°	2525.9	549.3	153.1	130.6	117.1	85.5	45.0	13.5	4.5	0.0	0.0
72.5°	1265.2	364.7	130.6	108.1	94.6	67.5	36.0	13.5	4.5	0.0	0.0
75°	450.2	234.1	90.0	72.0	67.5	49.5	22.5	9.0	4.5	0.0	0.0
77.5°	310.7	189.1	63.0	45.0	45.0	31.5	13.5	4.5	4.5	0.0	0.0
80°	283.7	103.6	40.5	27.0	22.5	18.0	9.0	4.5	0.0	0.0	0.0
82.5°	283.7	76.5	22.5	18.0	13.5	9.0	4.5	0.0	0.0	0.0	0.0
85°	198.1	40.5	13.5	13.5	9.0	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	31.5	13.5	9.0	4.5	4.5	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)