

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: P484850

Luminaire Tested: **IFLD-L-SA7A-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484850
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

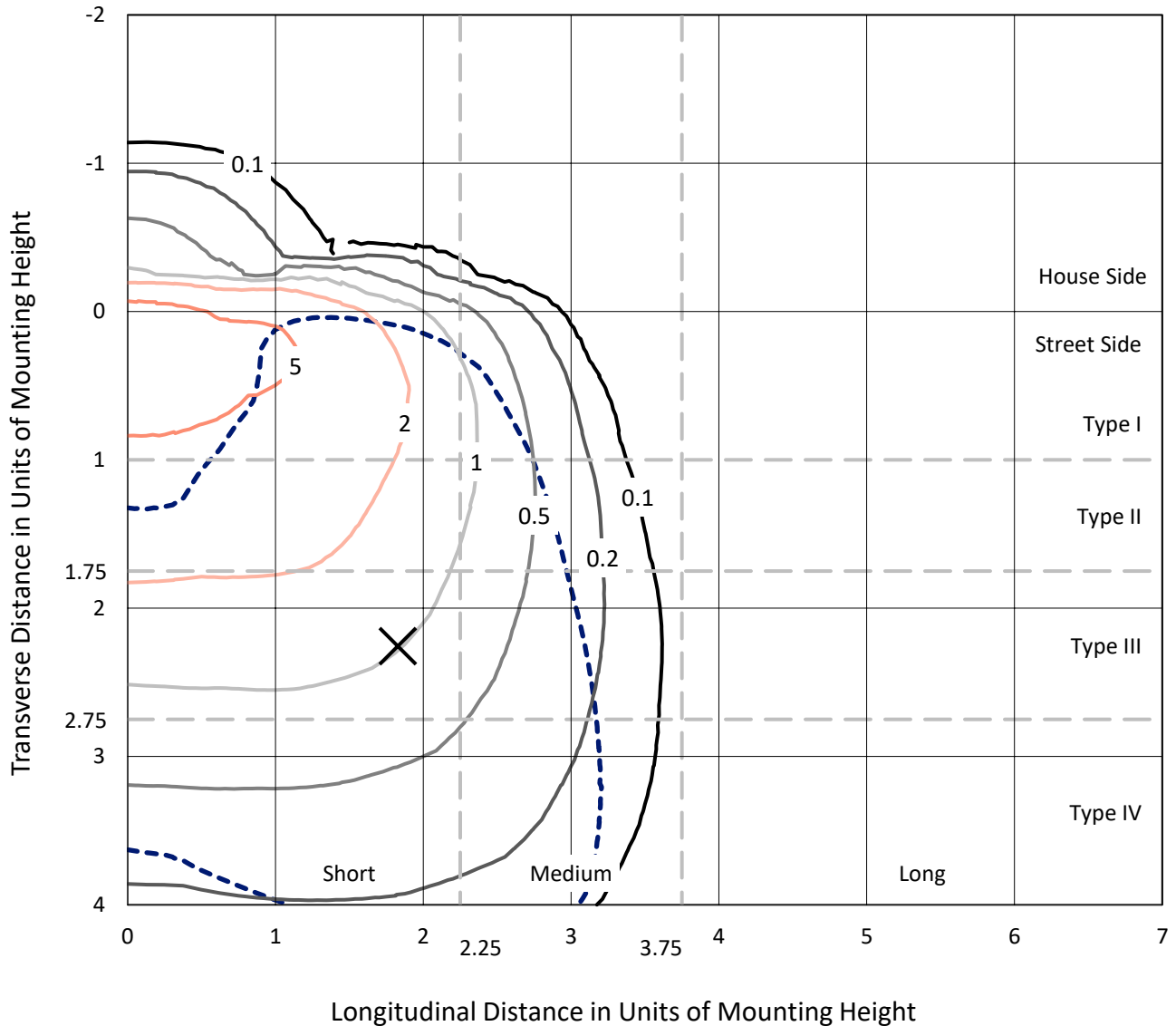
Lumens per Lamp: N/A
Luminaire Lumens: 26450.1 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

REPORT NUMBER: P484850
 CATALOG NUMBER: IFLD-L-SA7A-750-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

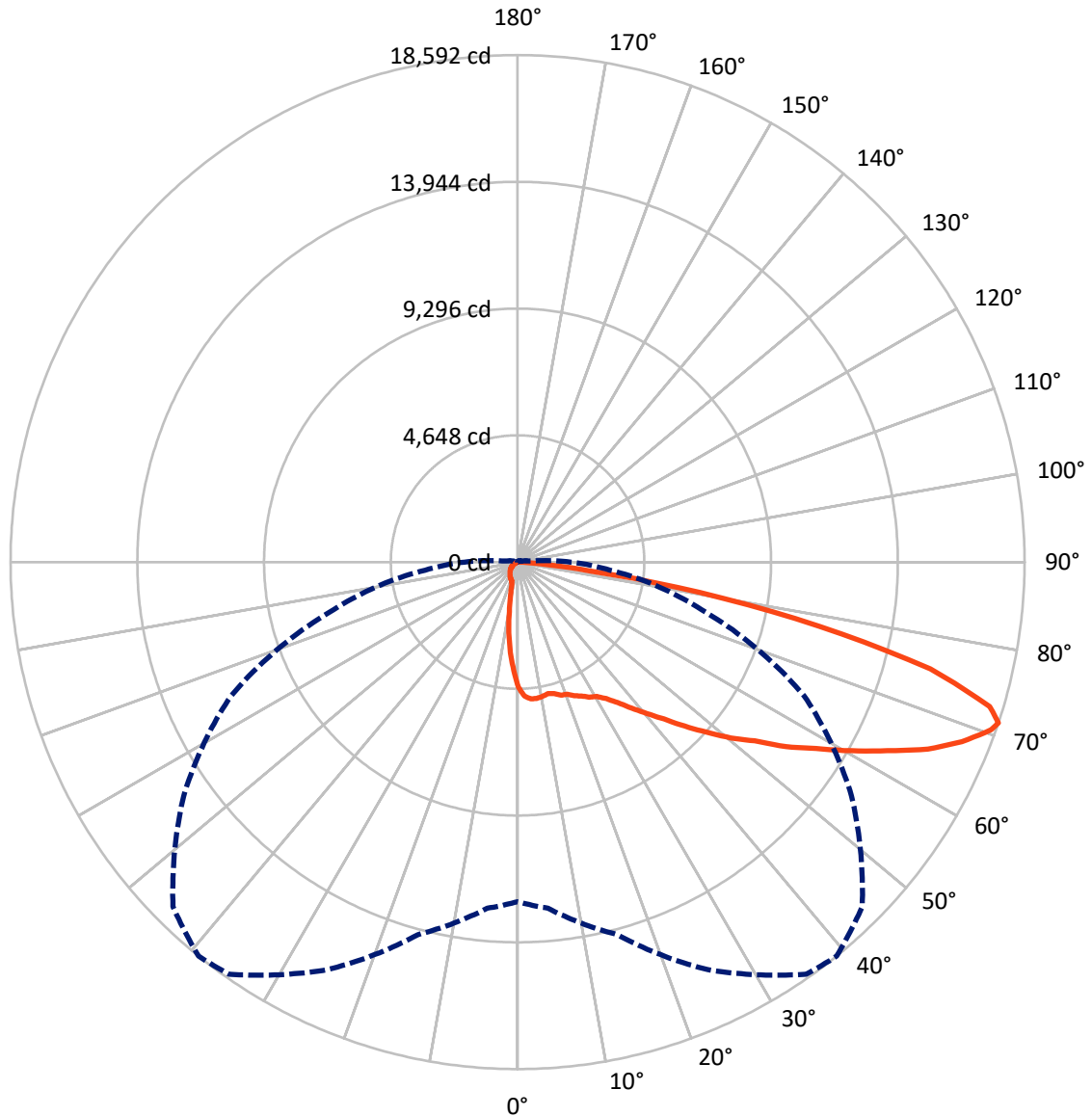
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - N/A

REPORT NUMBER: P484850
CATALOG NUMBER: IFLD-L-SA7A-750-U-SL4-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P484850
 CATALOG NUMBER: IFLD-L-SA7A-750-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1991.3	0.0	1991.3
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	24458.8	0.0	24458.8
	% Fixture	92.5	0.0	92.5
Total	Lumens	26450.1	0.0	26450.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.9	1.5
10°-20°	947.4	3.6
20°-30°	1520.9	5.8
30°-40°	2328.1	8.8
40°-50°	3737.0	14.1
50°-60°	5489.1	20.8
60°-70°	6913.3	26.1
70°-80°	4613.8	17.4
80°-90°	515.6	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°	26450.1	100.0
0°-180°	26450.1	100.0

Coefficient of Utilization



REPORT NUMBER: P484850

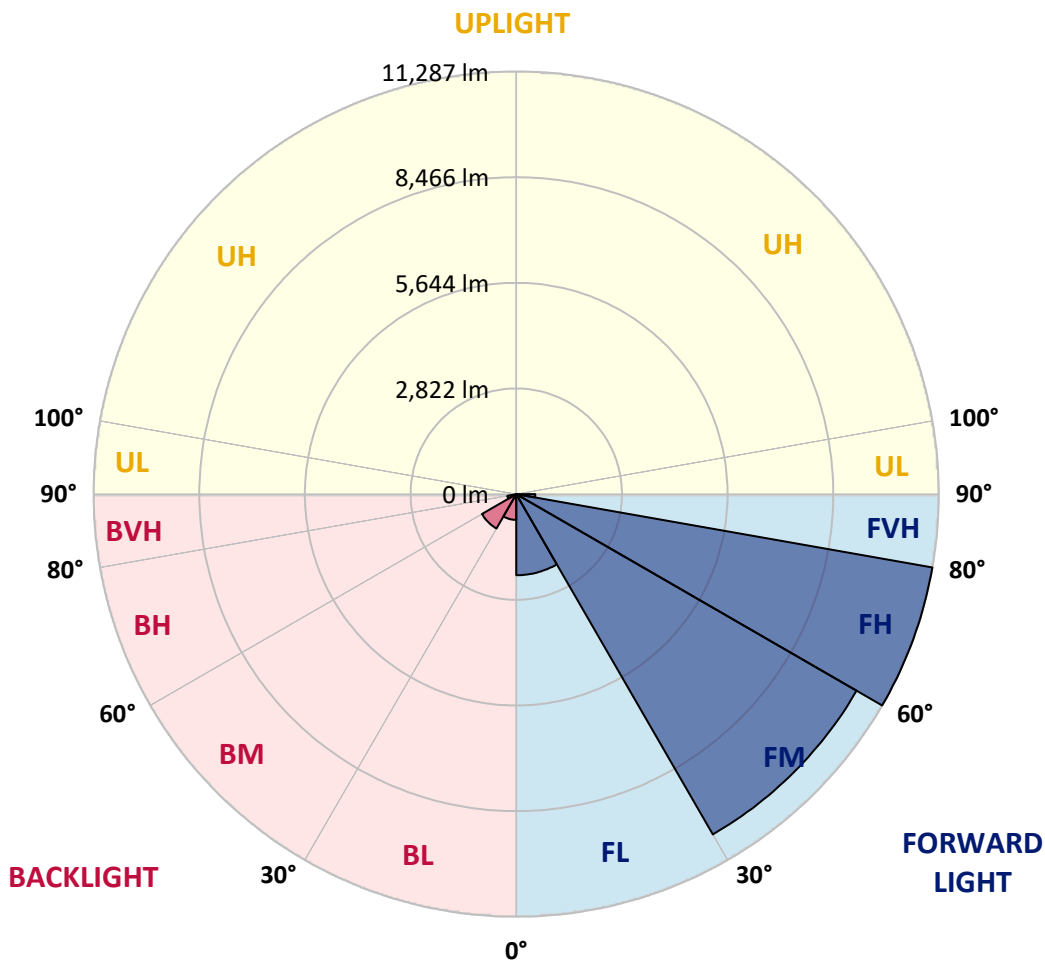
CATALOG NUMBER: IFLD-L-SA7A-750-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2165.7	8.2			
FM (30°-60°)	10495.8	39.7			
FH (60°-80°)	11287.4	42.7			G4/12000
FVH (80°-90°)	509.9	1.9			G4/750
BL (0°-30°)	687.5	2.6	B2/1000		
BM (30°-60°)	1058.5	4.0	B2/2500		
BH (60°-80°)	239.7	0.9	B1/500		G1/500
BVH (80°-90°)	5.7	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-G4

Type IV Short





REPORT NUMBER: P484850

CATALOG NUMBER: IFLD-L-SA7A-750-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8
2.5°	4961.1	5009.7	4961.1	4940.3	4919.5	4923.0	4867.5	4877.9	4812.0	4725.2	4655.8
5°	5117.3	5183.2	5131.1	5106.9	5103.4	5037.5	5009.7	4943.8	4864.0	4728.7	4645.4
7.5°	5103.4	5089.5	5113.8	5093.0	5047.9	5047.9	5016.7	4923.0	4843.2	4690.5	4548.3
10°	4999.3	5040.9	5020.1	4995.8	5006.2	5009.7	4950.7	4884.8	4860.5	4707.9	4475.4
12.5°	4988.9	4919.5	4995.8	4999.3	4954.2	4950.7	4943.8	4926.4	4850.1	4711.3	4492.8
15°	4954.2	4926.4	5002.8	5006.2	5016.7	5006.2	5016.7	5002.8	4926.4	4846.7	4569.1
17.5°	4982.0	4950.7	5058.3	5110.3	5086.0	5134.6	5117.3	5054.8	4988.9	4895.2	4642.0
20°	4988.9	5034.0	5152.0	5172.8	5249.1	5169.3	5165.8	5099.9	5058.3	4957.7	4687.1
22.5°	5117.3	5138.1	5283.8	5328.9	5332.4	5322.0	5235.2	5158.9	5141.5	5016.7	4697.5
25°	5311.5	5384.4	5450.3	5478.1	5488.5	5439.9	5349.7	5252.6	5210.9	5131.1	4805.0
27.5°	5655.0	5609.9	5668.9	5710.5	5592.6	5609.9	5495.4	5412.2	5353.2	5283.8	4929.9
30°	5960.3	5918.7	5922.1	5915.2	5814.6	5720.9	5689.7	5544.0	5471.1	5498.9	5124.2
32.5°	6234.4	6144.2	6220.5	6185.8	5998.5	5970.7	5946.4	5762.6	5776.4	5904.8	5415.6
35°	6487.6	6456.4	6518.9	6456.4	6331.5	6324.6	6300.3	6140.7	6217.0	6400.9	5915.2
37.5°	6720.1	6730.5	6806.8	6775.6	6786.0	6792.9	6779.1	6609.1	6827.6	7240.5	6498.1
40°	6935.2	6921.3	7108.7	7205.8	7226.6	7302.9	7302.9	7261.3	7597.8	8062.7	7306.4
42.5°	7164.2	7198.9	7441.7	7604.8	7802.5	7868.4	7958.6	7979.5	8499.9	9030.7	8132.1
45°	7538.9	7479.9	7788.6	8173.7	8347.2	8579.7	8718.4	8836.4	9464.3	10192.9	8957.8
47.5°	8014.2	7896.2	8166.8	8725.4	9127.8	9318.6	9568.4	9724.5	10338.6	11091.4	9738.4
50°	8541.5	8420.1	8551.9	9322.1	9790.4	10137.4	10456.6	10654.3	11396.7	12097.6	10307.4
52.5°	9138.2	9027.2	9048.0	9943.1	10633.5	10886.8	11306.5	11601.4	12340.4	12704.7	10508.6
55°	9773.1	9745.3	9679.4	10550.2	11372.5	11941.4	12194.7	12548.6	13308.3	13034.3	10727.2
57.5°	10411.5	10324.7	10418.4	11355.1	12559.0	12899.0	13249.4	13461.0	13846.1	13322.2	10643.9
60°	11011.7	11018.6	11150.4	12229.4	13568.5	14050.8	14366.5	14238.1	14397.7	13447.1	10453.1
62.5°	11518.2	11504.3	11837.4	13211.2	14904.2	15230.4	15466.3	14893.8	14654.4	13568.5	10120.0
65°	11972.7	12128.8	12652.6	14380.4	16160.1	16534.8	16392.6	15514.8	14904.2	13211.2	9183.3
67.5°	12316.1	12548.6	13457.5	15480.1	17312.0	17575.6	17377.9	15986.7	14609.3	11809.6	7479.9
70°	12517.3	12753.3	14033.4	16396.1	18231.3	18422.1	17957.3	15622.4	12888.6	8551.9	4666.2
71°	12454.9	12742.8	14144.5	16493.2	18449.9	18592.1	17870.5	14949.3	11591.0	7160.7	3403.4
72.5°	11889.4	12160.0	13683.0	16423.8	18186.2	18099.5	17194.0	13332.6	9124.3	4565.6	1759.0
75°	8735.8	9027.2	11743.7	14206.9	16233.0	15636.3	13915.5	9356.8	4759.9	1398.1	513.5
77.5°	4350.5	4399.1	7289.1	10314.3	11906.7	11313.5	9325.6	5217.9	1779.8	412.9	256.7
80°	2005.3	2019.1	2733.8	5342.8	7198.9	6775.6	5224.8	2574.2	804.9	218.6	201.2
82.5°	1366.9	1387.7	1647.9	2213.4	3125.9	2636.7	2116.3	1647.9	461.4	131.8	197.8
85°	249.8	229.0	922.8	1172.6	1207.3	818.8	732.0	1425.9	173.5	76.3	173.5
87.5°	0.0	3.5	128.4	478.8	430.2	190.8	249.8	346.9	17.3	24.3	31.2
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: P484850

CATALOG NUMBER: IFLD-L-SA7A-750-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8	4603.8
2.5°	4596.9	4558.7	4430.3	4288.1	4159.7	4059.1	3930.8	3871.8	3778.1	3726.1	3722.6
5°	4530.9	4426.9	4204.8	3965.4	3698.3	3476.3	3229.9	3091.2	2931.6	2883.0	2872.6
7.5°	4419.9	4270.7	3944.6	3608.1	3198.7	2806.7	2504.9	2182.2	1984.5	1901.2	1870.0
10°	4350.5	4170.1	3726.1	3223.0	2650.6	2098.9	1675.7	1332.2	1151.8	1065.1	1044.3
12.5°	4350.5	4156.3	3549.1	2855.3	2095.5	1436.3	1037.3	839.6	780.6	759.8	759.8
15°	4340.1	4128.5	3379.1	2477.1	1550.8	964.5	773.7	732.0	725.1	721.6	718.2
17.5°	4392.2	4079.9	3205.7	2071.2	1096.3	759.8	711.2	704.3	697.3	697.3	690.4
20°	4430.3	4052.2	2997.5	1641.0	818.8	704.3	683.5	673.0	669.6	666.1	673.0
22.5°	4399.1	4010.5	2740.8	1228.1	714.7	669.6	655.7	645.3	638.4	638.4	641.8
25°	4458.1	3972.4	2484.0	926.3	669.6	638.4	624.5	617.5	614.1	610.6	603.7
27.5°	4537.9	3989.7	2178.7	745.9	631.4	607.1	593.3	586.3	582.8	575.9	582.8
30°	4635.0	3986.3	1842.2	652.2	596.7	572.4	558.6	555.1	548.2	544.7	548.2
32.5°	4801.6	4076.5	1495.3	603.7	558.6	537.7	523.9	520.4	516.9	513.5	510.0
35°	5158.9	4187.5	1169.2	565.5	523.9	499.6	489.2	482.2	478.8	475.3	471.8
37.5°	5599.5	4433.8	891.6	530.8	489.2	464.9	454.5	451.0	437.1	433.7	430.2
40°	6151.1	4697.5	686.9	492.6	458.0	433.7	423.3	412.9	395.5	388.6	381.6
42.5°	6838.0	4954.2	565.5	458.0	423.3	405.9	388.6	371.2	357.3	343.5	336.5
45°	7525.0	5252.6	496.1	426.7	395.5	374.7	360.8	336.5	312.2	291.4	288.0
47.5°	8097.4	5360.1	454.5	392.0	367.7	350.4	329.6	298.4	263.7	242.9	239.4
50°	8524.1	5297.7	412.9	357.3	336.5	319.2	291.4	253.3	218.6	197.8	190.8
52.5°	8607.4	5023.6	374.7	329.6	305.3	284.5	253.3	211.6	173.5	152.7	149.2
55°	8548.4	4569.1	343.5	305.3	277.5	246.3	211.6	170.0	135.3	114.5	111.0
57.5°	8427.0	4031.4	308.8	274.1	242.9	211.6	173.5	138.8	100.6	79.8	79.8
60°	8014.2	3299.3	274.1	239.4	208.2	180.4	142.2	100.6	69.4	52.0	48.6
62.5°	7438.2	2536.1	239.4	204.7	180.4	149.2	111.0	72.9	41.6	27.8	27.8
65°	6387.0	1776.3	201.2	170.0	149.2	121.4	83.3	45.1	24.3	10.4	10.4
67.5°	4853.6	1099.8	166.5	142.2	128.4	97.1	59.0	27.8	10.4	3.5	0.0
70°	2785.9	572.4	131.8	114.5	100.6	72.9	41.6	13.9	6.9	0.0	0.0
71°	1946.3	423.3	118.0	100.6	90.2	65.9	34.7	10.4	3.5	0.0	0.0
72.5°	974.9	281.0	100.6	83.3	72.9	52.0	27.8	10.4	3.5	0.0	0.0
75°	346.9	180.4	69.4	55.5	52.0	38.2	17.3	6.9	3.5	0.0	0.0
77.5°	239.4	145.7	48.6	34.7	34.7	24.3	10.4	3.5	3.5	0.0	0.0
80°	218.6	79.8	31.2	20.8	17.3	13.9	6.9	3.5	0.0	0.0	0.0
82.5°	218.6	59.0	17.3	13.9	10.4	6.9	3.5	0.0	0.0	0.0	0.0
85°	152.7	31.2	10.4	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0
87.5°	24.3	10.4	6.9	3.5	3.5	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)