

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: P482513

Luminaire Tested: **IFLD-L-SA7D-750-U-T3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482513
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-750-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

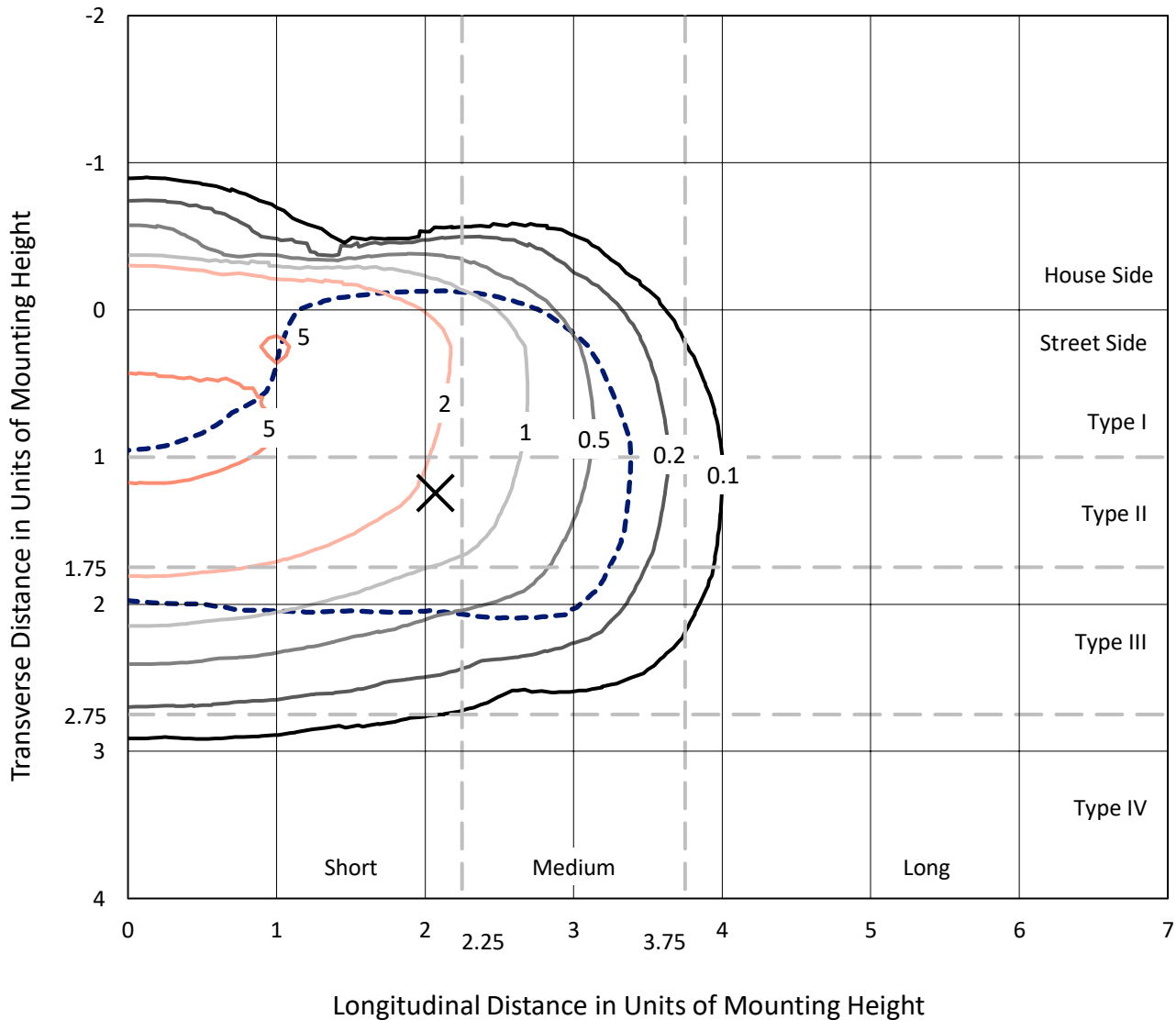
Lumens per Lamp: N/A
Luminaire Lumens: 37024.1 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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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 CATALOG NUMBER: IFLD-L-SA7D-750-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

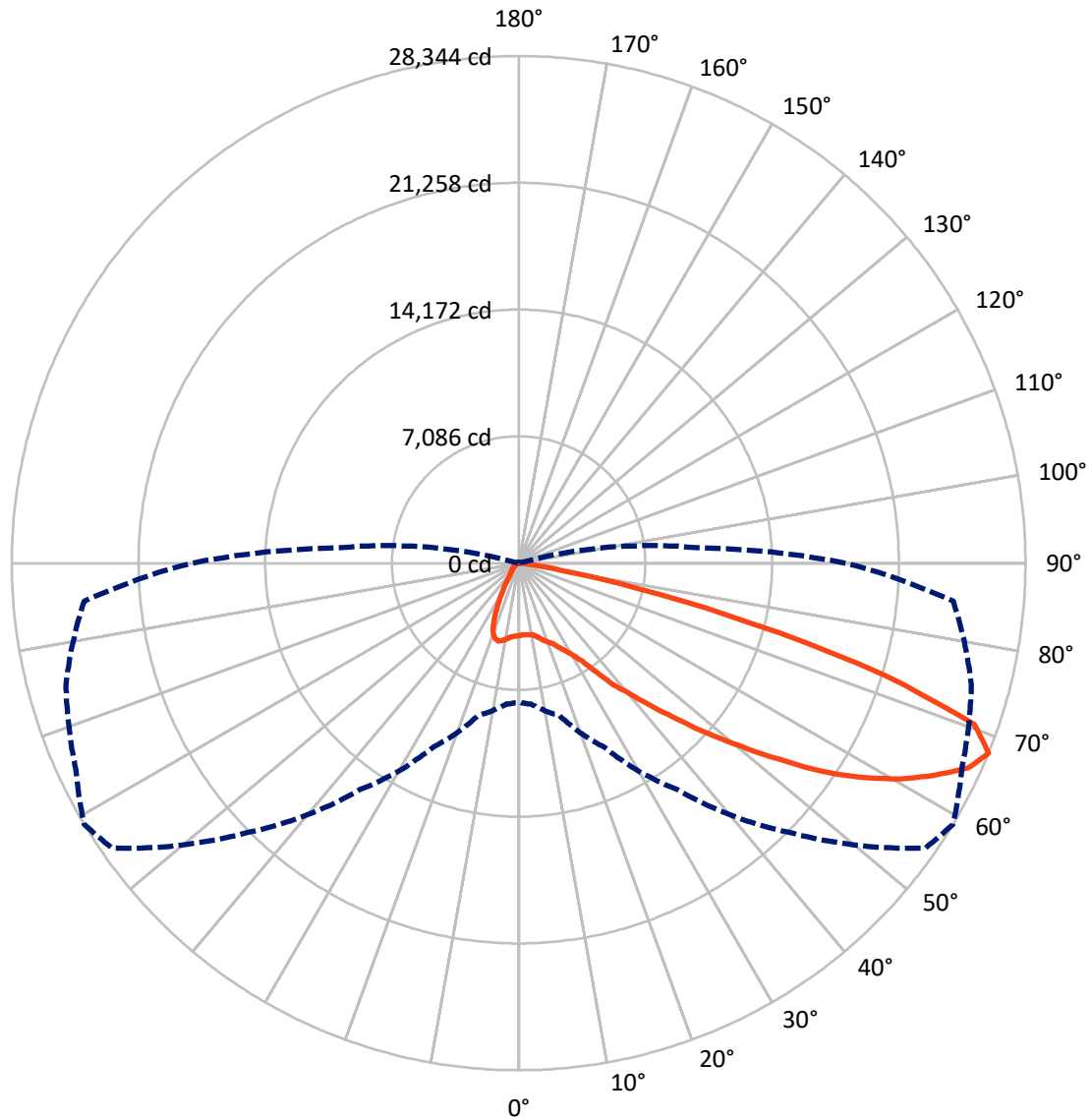
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P482513
CATALOG NUMBER: IFLD-L-SA7D-750-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4349.1	0.0	4349.1
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	32675.0	0.0	32675.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	37024.1	0.0	37024.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.8	1.0
10°-20°	1114.2	3.0
20°-30°	1947.4	5.3
30°-40°	3428.7	9.3
40°-50°	6060.8	16.4
50°-60°	9596.4	25.9
60°-70°	10645.1	28.8
70°-80°	3693.6	10.0
80°-90°	152.1	0.4
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°	37024.1	100.0
0°-180°	37024.1	100.0

Coefficient of Utilization

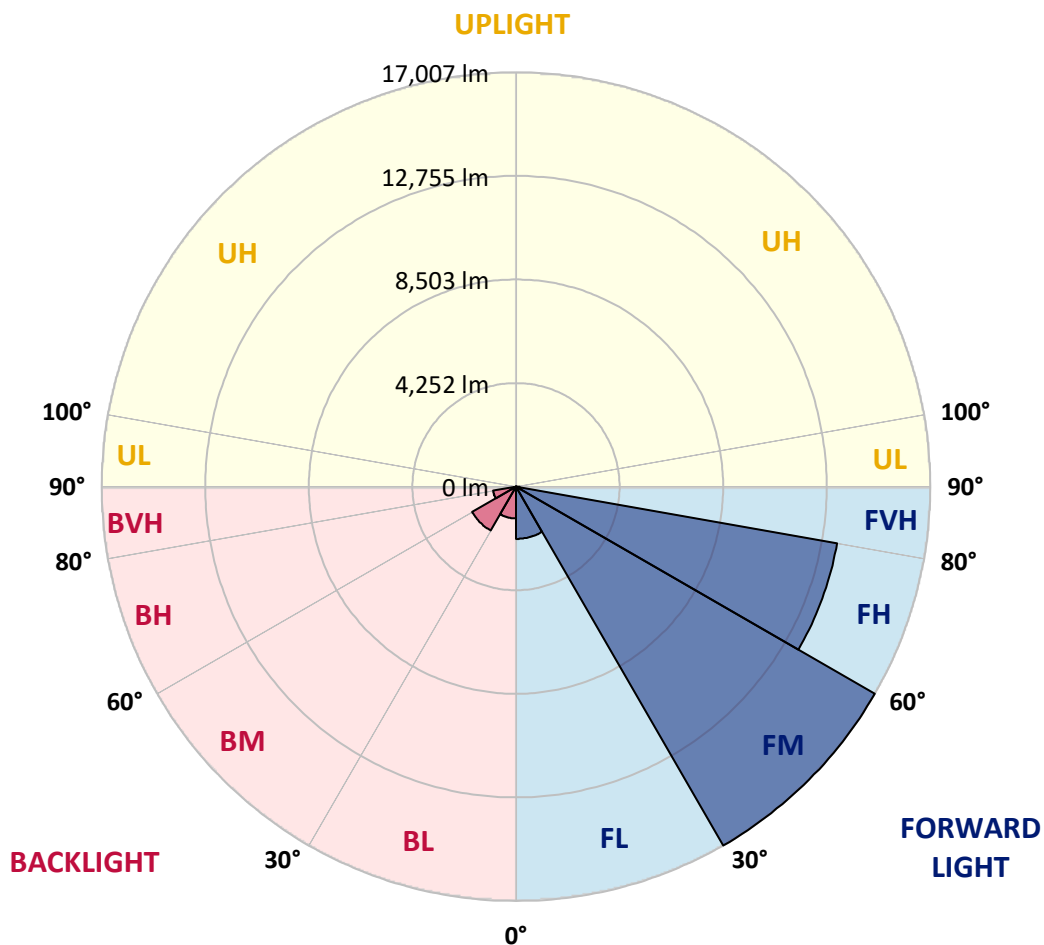


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2144.0	5.8			
FM (30°-60°)	17006.6	45.9			
FH (60°-80°)	13382.2	36.1			G5
FVH (80°-90°)	142.3	0.4			G2/225
BL (0°-30°)	1303.5	3.5	B3/2500		
BM (30°-60°)	2079.4	5.6	B2/2500		
BH (60°-80°)	956.4	2.6	B2/1000		G2/1000
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Short





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CATALOG NUMBER: IFLD-L-SA7D-750-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9
2.5°	3943.2	3887.0	3938.1	3943.2	3948.4	3994.4	4045.5	4009.7	4004.6	4045.5	4081.3
5°	3784.7	3759.1	3820.5	3851.2	3902.3	3943.2	4025.1	4030.2	4035.3	4081.3	4142.7
7.5°	3718.2	3656.8	3728.4	3764.2	3800.0	3897.2	3994.4	4045.5	4117.1	4173.4	4234.8
10°	3585.2	3631.3	3651.7	3713.1	3815.4	3927.9	4045.5	4071.1	4229.7	4275.7	4424.0
12.5°	3631.3	3662.0	3702.9	3718.2	3830.7	3999.5	4158.1	4168.3	4331.9	4531.4	4608.1
15°	3748.9	3728.4	3743.8	3764.2	3897.2	4035.3	4291.0	4337.1	4490.5	4715.5	4904.8
17.5°	3999.5	3963.7	3938.1	3933.0	3963.7	4091.6	4393.3	4531.4	4674.6	4981.5	5078.7
20°	4628.6	4597.9	4495.6	4229.7	4137.6	4188.7	4516.1	4710.4	4909.9	5252.6	5411.1
22.5°	5585.0	5615.7	5375.3	5001.9	4618.4	4418.9	4710.4	4879.2	5196.3	5631.0	5774.2
25°	6715.3	6653.9	6362.4	5927.7	5324.2	4853.6	5022.4	5211.6	5600.3	5958.3	6014.6
27.5°	7600.1	7528.5	7303.4	6776.7	6255.0	5492.9	5431.6	5549.2	6009.5	6331.7	6270.3
30°	8474.7	8500.2	8346.8	7722.8	7078.4	6275.4	5886.7	5937.9	6290.8	6705.1	6567.0
32.5°	9589.6	9528.2	9441.3	8894.0	8132.0	7272.8	6607.9	6526.1	6679.5	7226.7	7063.1
35°	10627.8	10592.0	10474.4	9922.1	9257.2	8321.2	7671.7	7487.6	7451.8	8060.4	7774.0
37.5°	11533.1	11471.7	11292.7	10939.8	10295.4	9507.8	8796.9	8633.2	8628.1	9047.5	8495.1
40°	12295.2	12341.2	12320.7	11932.0	11579.1	10950.1	9860.7	9599.8	9579.4	9804.4	9482.2
42.5°	13282.3	13389.7	13333.4	13256.7	12832.2	12586.7	11354.1	10955.2	10776.2	11236.5	10944.9
45°	14775.7	14816.6	14852.4	14663.2	14238.7	14289.8	12898.7	12423.0	12377.0	13062.3	12407.7
47.5°	16171.9	16064.5	16315.1	16325.4	16304.9	16069.6	14566.0	14213.1	14274.5	14796.1	14121.0
50°	16519.7	16795.9	17486.3	17614.2	17946.6	18161.4	16417.4	16064.5	16166.8	16760.1	15987.8
52.5°	16790.8	17210.2	17900.6	18836.6	19731.6	20243.0	18488.8	18202.4	18197.3	18560.4	17496.6
55°	17266.4	17522.1	18120.5	19409.4	21112.5	21951.3	20984.6	20524.3	20110.1	20365.8	19061.6
57.5°	17220.4	17317.6	18248.4	19839.0	22207.0	23731.1	23035.5	22595.7	22063.8	21915.5	20861.9
60°	16412.3	16642.5	17685.8	19547.5	22882.1	25117.1	24948.3	24498.3	23582.8	23235.0	22242.8
62.5°	14811.5	15118.3	15936.7	18524.6	21900.1	25188.7	26267.9	26099.1	25076.2	24452.2	24043.1
65°	12003.6	12146.8	13087.9	15926.4	19680.4	24089.1	27827.8	27618.1	26677.0	25746.2	24968.8
67.5°	7774.0	7912.1	8817.3	11369.4	15455.9	21250.6	27766.4	28344.3	27326.6	26206.5	24390.9
70°	3672.2	3636.4	4480.3	6316.4	9901.6	16228.2	25889.4	27029.9	26165.6	23756.7	20258.4
72.5°	1120.1	1217.2	1861.7	2797.6	5083.8	10121.5	20294.2	21363.1	21092.0	18979.8	13522.6
75°	496.1	537.0	731.4	1145.6	2061.1	4152.9	12535.5	13486.8	13369.2	11195.6	6173.2
77.5°	317.1	347.8	460.3	654.7	935.9	1319.5	5774.2	6699.9	6495.4	3933.0	1616.2
80°	225.0	240.4	327.3	450.1	588.2	542.1	1989.5	2362.9	2265.7	1068.9	434.7
82.5°	122.7	133.0	240.4	332.4	393.8	276.2	557.5	695.6	726.3	475.6	209.7
85°	46.0	56.3	148.3	235.3	204.6	127.9	163.7	199.5	260.8	260.8	97.2
87.5°	0.0	5.1	61.4	102.3	51.1	35.8	46.0	56.3	71.6	122.7	35.8
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°	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9	4060.9
2.5°	4106.9	4071.1	4086.5	4112.0	4055.8	4086.5	4025.1	4071.1	4086.5	4025.1	4055.8
5°	4158.1	4193.9	4173.4	4132.5	4096.7	4106.9	4091.6	4055.8	4086.5	4096.7	4076.2
7.5°	4306.4	4265.5	4275.7	4229.7	4158.1	4152.9	4055.8	4030.2	4040.4	4050.7	4014.9
10°	4444.5	4470.0	4418.9	4383.1	4265.5	4188.7	4055.8	3912.6	3897.2	3835.8	3887.0
12.5°	4690.0	4628.6	4608.1	4490.5	4372.9	4117.1	3830.7	3610.8	3426.7	3360.2	3293.7
15°	4894.5	4884.3	4848.5	4669.5	4398.4	3933.0	3390.9	2879.4	2526.5	2306.6	2275.9
17.5°	5175.8	5129.8	5063.3	4782.0	4209.2	3452.3	2526.5	1882.1	1529.2	1391.1	1340.0
20°	5390.6	5354.8	5262.8	4756.4	3866.5	2572.6	1565.0	1196.8	1109.8	1084.3	1089.4
22.5°	5702.6	5590.1	5416.2	4628.6	3242.6	1713.3	1125.2	1068.9	1053.6	1033.1	1038.2
25°	5973.7	5871.4	5508.3	4408.7	2311.7	1135.4	1043.3	1012.7	987.1	961.5	956.4
27.5°	6214.1	6086.2	5605.4	3958.6	1447.4	976.9	966.6	930.8	879.7	838.8	823.4
30°	6449.3	6301.0	5631.0	3114.7	976.9	884.8	859.2	803.0	736.5	680.2	670.0
32.5°	6843.1	6664.1	5595.2	2224.8	843.9	787.6	731.4	664.9	567.7	521.7	511.4
35°	7456.9	7185.8	5549.2	1309.3	756.9	695.6	608.6	521.7	450.1	404.0	393.8
37.5°	8162.7	7692.1	5416.2	874.6	695.6	613.7	501.2	414.3	352.9	317.1	306.9
40°	9211.1	8433.7	4904.8	716.0	618.8	521.7	404.0	327.3	281.3	255.7	245.5
42.5°	10367.0	9282.7	4117.1	644.4	547.2	445.0	322.2	266.0	230.2	204.6	204.6
45°	11753.0	10167.5	3176.1	588.2	485.9	368.2	266.0	214.8	184.1	163.7	153.4
47.5°	13297.6	10970.5	2143.0	531.9	409.2	301.8	219.9	163.7	133.0	117.6	117.6
50°	14678.5	11681.4	1365.6	465.4	358.0	250.6	179.0	133.0	107.4	86.9	81.8
52.5°	15931.5	12223.6	941.1	409.2	306.9	204.6	148.3	107.4	81.8	66.5	66.5
55°	17215.3	12499.7	695.6	352.9	266.0	173.9	122.7	97.2	71.6	56.3	51.1
57.5°	18268.9	12617.4	531.9	306.9	225.0	138.1	107.4	81.8	61.4	46.0	40.9
60°	19169.0	12561.1	414.3	255.7	179.0	117.6	92.1	66.5	51.1	35.8	30.7
62.5°	19695.8	12223.6	327.3	219.9	143.2	102.3	76.7	56.3	35.8	25.6	20.5
65°	19706.0	11507.5	255.7	163.7	107.4	86.9	66.5	46.0	25.6	10.2	5.1
67.5°	18294.4	9957.9	204.6	127.9	86.9	66.5	51.1	35.8	10.2	0.0	0.0
70°	14310.3	7533.6	168.8	102.3	71.6	56.3	35.8	20.5	5.1	0.0	0.0
72.5°	9119.1	4511.0	138.1	81.8	61.4	40.9	25.6	15.3	0.0	0.0	0.0
75°	3815.4	1391.1	107.4	71.6	46.0	30.7	20.5	5.1	0.0	0.0	0.0
77.5°	982.0	439.8	86.9	61.4	46.0	25.6	15.3	5.1	0.0	0.0	0.0
80°	291.5	163.7	71.6	51.1	35.8	20.5	10.2	5.1	0.0	0.0	0.0
82.5°	133.0	97.2	61.4	46.0	30.7	20.5	10.2	0.0	0.0	0.0	0.0
85°	51.1	30.7	30.7	25.6	25.6	15.3	5.1	0.0	0.0	0.0	0.0
87.5°	20.5	10.2	10.2	10.2	5.1	5.1	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)