

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: P482401

Luminaire Tested: **IFLD-L-SA8D-730-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482401
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-730-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

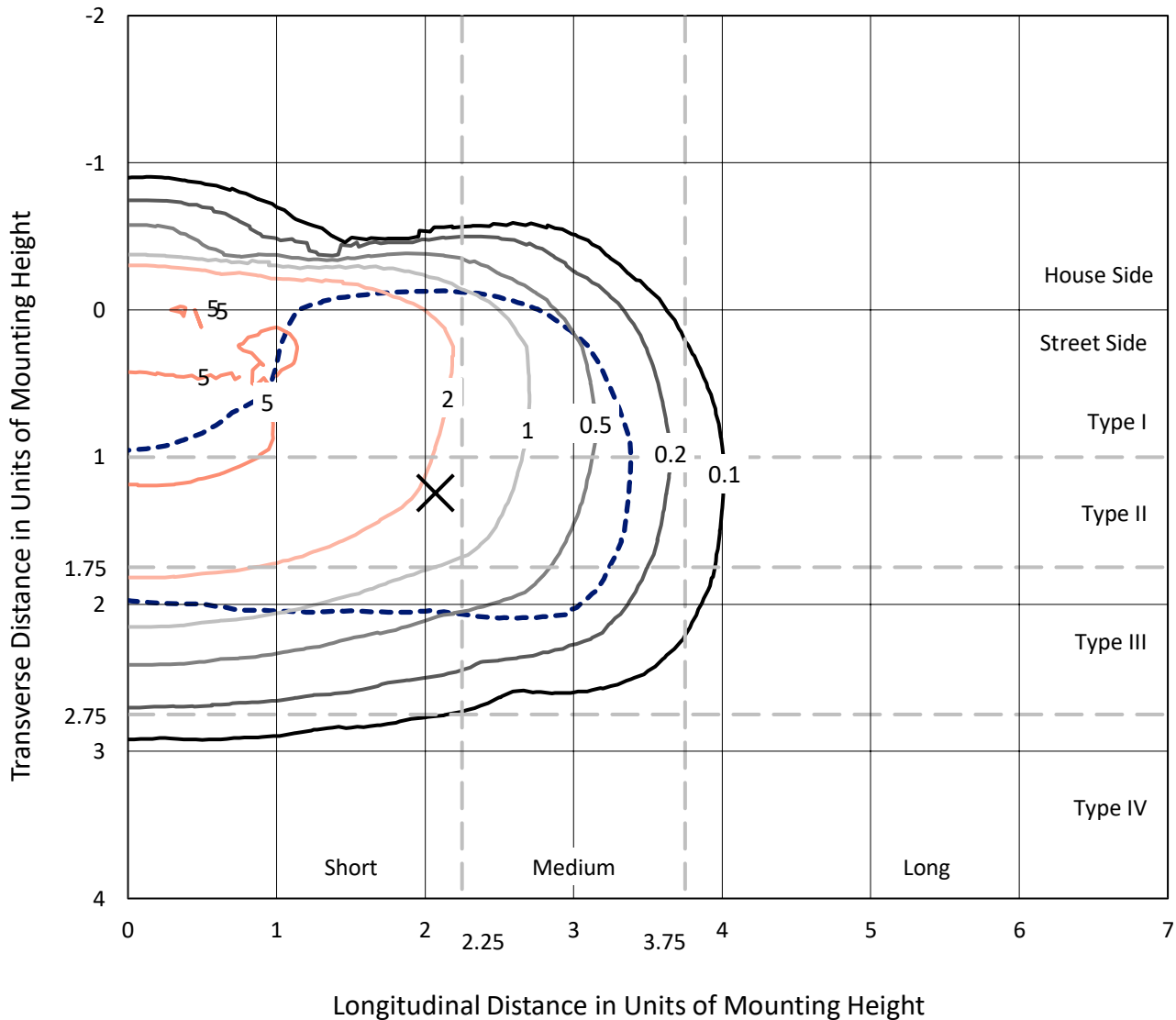
Lumens per Lamp: N/A
Luminaire Lumens: 37668 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

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Iso-Footcandle Lines of Horizontal Illumination

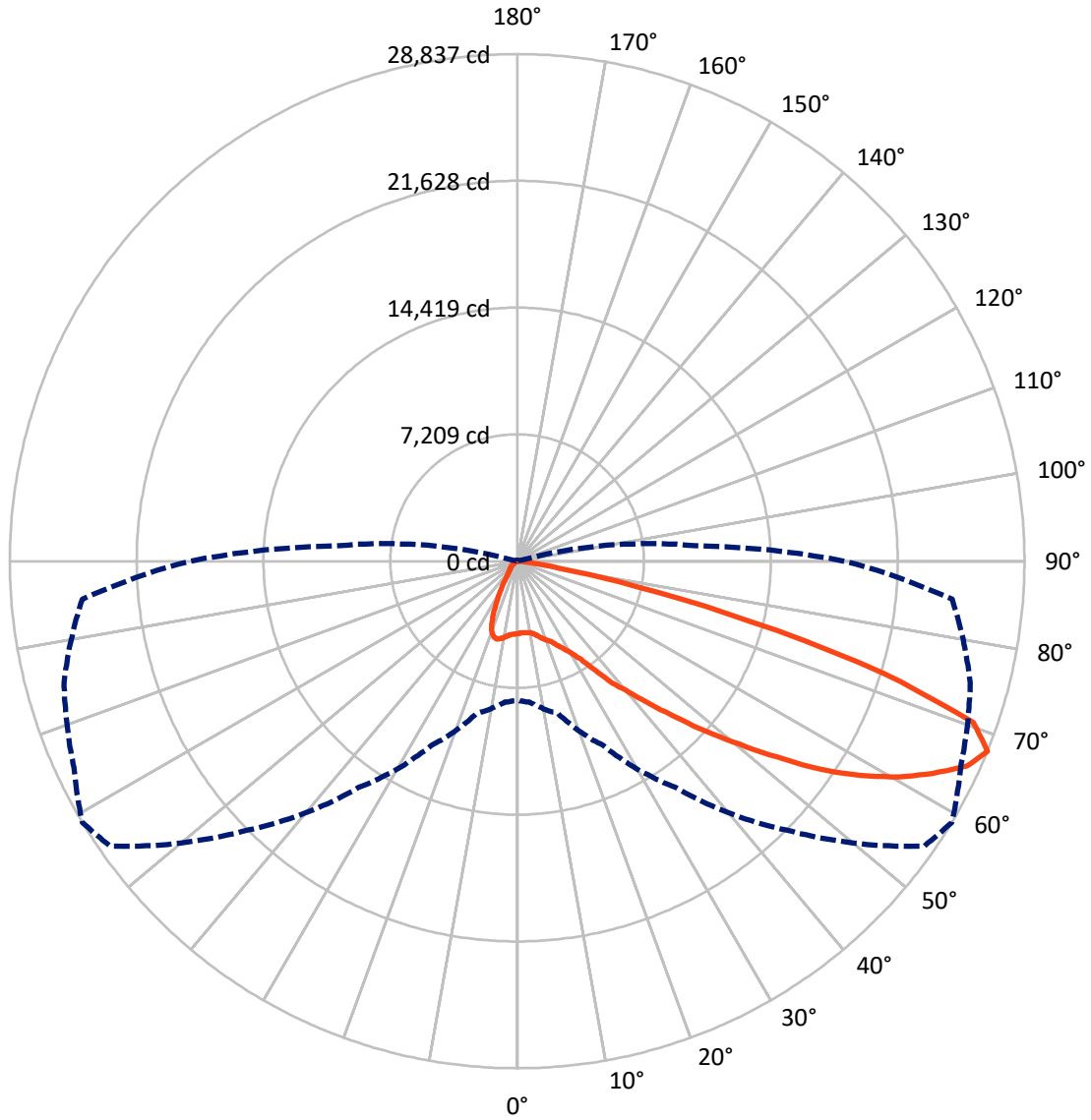
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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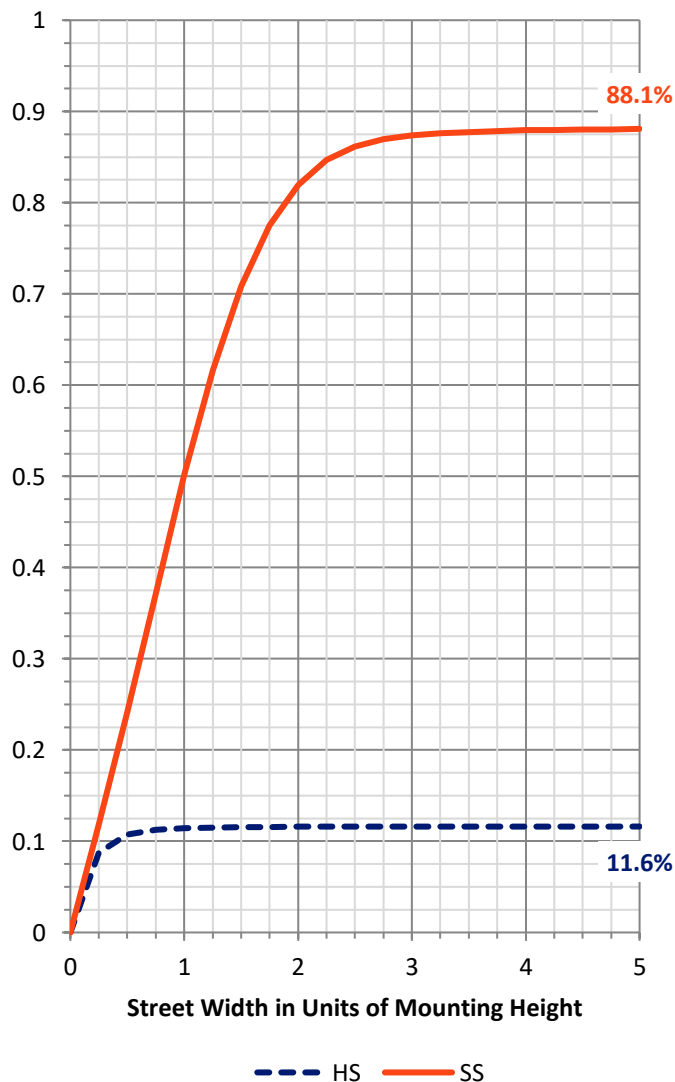
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4424.7	0.0	4424.7
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	33243.2	0.0	33243.2
	% Fixture	88.3	0.0	88.3
Total	Lumens	37668.0	0.0	37668.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.5	1.0
10°-20°	1133.6	3.0
20°-30°	1981.3	5.3
30°-40°	3488.3	9.3
40°-50°	6166.2	16.4
50°-60°	9763.3	25.9
60°-70°	10830.2	28.8
70°-80°	3757.8	10.0
80°-90°	154.7	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°	37668.0	100.0
0°-180°	37668.0	100.0

Coefficient of Utilization

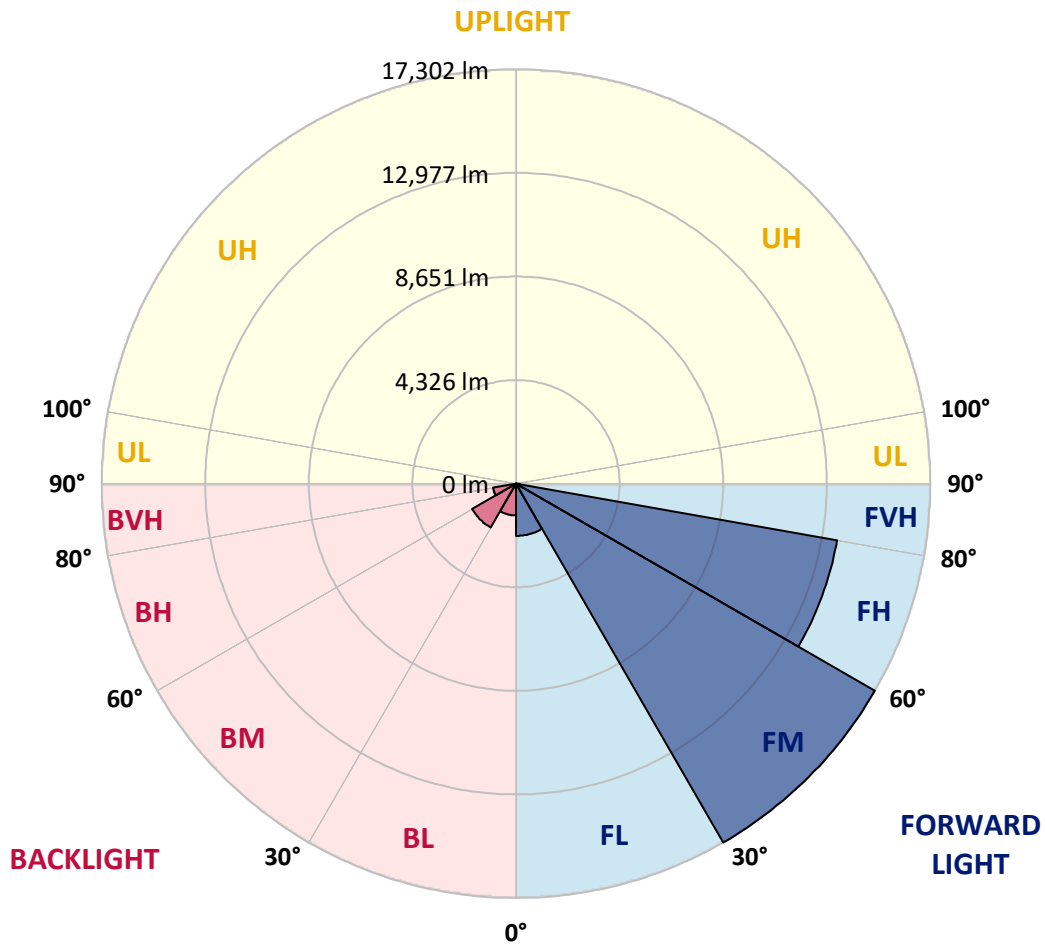


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2181.3	5.8			
FM (30°-60°)	17302.3	45.9			
FH (60°-80°)	13615.0	36.1			G5
FVH (80°-90°)	144.7	0.4			G2/225
BL (0°-30°)	1326.1	3.5	B3/2500		
BM (30°-60°)	2115.5	5.6	B2/2500		
BH (60°-80°)	973.1	2.6	B2/1000		G2/1000
BVH (80°-90°)	10.0	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-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5
2.5°	4011.8	3954.6	4006.6	4011.8	4017.0	4063.9	4115.9	4079.5	4074.3	4115.9	4152.3
5°	3850.5	3824.5	3886.9	3918.2	3970.2	4011.8	4095.1	4100.3	4105.5	4152.3	4214.8
7.5°	3782.9	3720.4	3793.3	3829.7	3866.1	3965.0	4063.9	4115.9	4188.7	4246.0	4308.4
10°	3647.6	3694.4	3715.2	3777.7	3881.7	3996.2	4115.9	4141.9	4303.2	4350.0	4500.9
12.5°	3694.4	3725.6	3767.3	3782.9	3897.3	4069.1	4230.4	4240.8	4407.3	4610.2	4688.3
15°	3814.1	3793.3	3808.9	3829.7	3965.0	4105.5	4365.7	4412.5	4568.6	4797.5	4990.1
17.5°	4069.1	4032.6	4006.6	4001.4	4032.6	4162.7	4469.7	4610.2	4755.9	5068.1	5167.0
20°	4709.1	4677.9	4573.8	4303.2	4209.6	4261.6	4594.6	4792.3	4995.3	5343.9	5505.2
22.5°	5682.1	5713.3	5468.8	5088.9	4698.7	4495.7	4792.3	4964.0	5286.7	5728.9	5874.6
25°	6832.1	6769.6	6473.0	6030.7	5416.7	4938.0	5109.7	5302.3	5697.7	6062.0	6119.2
27.5°	7732.3	7659.4	7430.5	6894.5	6363.8	5588.5	5526.0	5645.7	6114.0	6441.8	6379.4
30°	8622.0	8648.1	8492.0	7857.1	7201.5	6384.6	5989.1	6041.1	6400.2	6821.7	6681.2
32.5°	9756.4	9693.9	9605.5	9048.7	8273.4	7399.2	6722.8	6639.5	6795.6	7352.4	7185.9
35°	10812.7	10776.2	10656.6	10094.6	9418.2	8465.9	7805.1	7617.8	7581.4	8200.6	7909.2
37.5°	11733.7	11671.2	11489.1	11130.1	10474.4	9673.1	8949.9	8783.3	8778.1	9204.8	8642.8
40°	12509.0	12555.8	12535.0	12139.5	11780.5	11140.5	10032.2	9766.8	9746.0	9974.9	9647.1
42.5°	13513.2	13622.5	13565.3	13487.2	13055.3	12805.6	11551.6	11145.7	10963.6	11431.9	11135.3
45°	15032.6	15074.3	15110.7	14918.2	14486.3	14538.3	13123.0	12639.1	12592.2	13289.5	12623.5
47.5°	16453.2	16343.9	16598.9	16609.3	16588.4	16349.1	14819.3	14460.3	14522.7	15053.4	14366.6
50°	16807.0	17088.0	17790.4	17920.5	18258.7	18477.3	16702.9	16343.9	16448.0	17051.5	16265.8
52.5°	17082.8	17509.4	18211.9	19164.1	20074.7	20595.1	18810.3	18518.9	18513.7	18883.1	17800.8
55°	17566.7	17826.9	18435.7	19746.9	21479.6	22333.0	21349.6	20881.2	20459.8	20719.9	19393.1
57.5°	17519.9	17618.7	18565.7	20184.0	22593.2	24143.8	23436.1	22988.6	22447.5	22296.6	21224.7
60°	16697.7	16931.9	17993.4	19887.4	23280.0	25553.9	25382.2	24924.3	23992.9	23639.1	22629.6
62.5°	15069.1	15381.3	16213.8	18846.7	22281.0	25626.8	26724.7	26553.0	25512.3	24877.5	24461.2
65°	12212.4	12358.1	13315.5	16203.4	20022.7	24508.0	28311.7	28098.4	27140.9	26193.9	25403.0
67.5°	7909.2	8049.7	8970.7	11567.2	15724.7	21620.1	28249.3	28837.2	27801.8	26662.2	24815.0
70°	3736.0	3699.6	4558.2	6426.2	10073.8	16510.4	26339.6	27500.0	26620.6	24169.8	20610.7
72.5°	1139.5	1238.4	1894.0	2846.3	5172.2	10297.5	20647.1	21734.6	21458.8	19309.8	13757.8
75°	504.7	546.4	744.1	1165.6	2097.0	4225.2	12753.5	13721.4	13601.7	11390.2	6280.5
77.5°	322.6	353.8	468.3	666.0	952.2	1342.5	5874.6	6816.5	6608.3	4001.4	1644.3
80°	228.9	244.6	333.0	457.9	598.4	551.6	2024.1	2404.0	2305.1	1087.5	442.3
82.5°	124.9	135.3	244.6	338.2	400.7	281.0	567.2	707.7	738.9	483.9	213.3
85°	46.8	57.2	150.9	239.4	208.1	130.1	166.5	202.9	265.4	265.4	98.9
87.5°	0.0	5.2	62.4	104.1	52.0	36.4	46.8	57.2	72.8	124.9	36.4
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°	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5	4131.5
2.5°	4178.3	4141.9	4157.5	4183.5	4126.3	4157.5	4095.1	4141.9	4157.5	4095.1	4126.3
5°	4230.4	4266.8	4246.0	4204.3	4167.9	4178.3	4162.7	4126.3	4157.5	4167.9	4147.1
7.5°	4381.3	4339.6	4350.0	4303.2	4230.4	4225.2	4126.3	4100.3	4110.7	4121.1	4084.7
10°	4521.8	4547.8	4495.7	4459.3	4339.6	4261.6	4126.3	3980.6	3965.0	3902.6	3954.6
12.5°	4771.5	4709.1	4688.3	4568.6	4448.9	4188.7	3897.3	3673.6	3486.3	3418.6	3351.0
15°	4979.7	4969.2	4932.8	4750.7	4474.9	4001.4	3449.9	2929.5	2570.5	2346.7	2315.5
17.5°	5265.8	5219.0	5151.4	4865.2	4282.4	3512.3	2570.5	1914.9	1555.8	1415.3	1363.3
20°	5484.4	5448.0	5354.3	4839.2	3933.8	2617.3	1592.2	1217.6	1129.1	1103.1	1108.3
22.5°	5801.8	5687.3	5510.4	4709.1	3299.0	1743.1	1144.7	1087.5	1071.9	1051.1	1056.3
25°	6077.6	5973.5	5604.1	4485.3	2351.9	1155.2	1061.5	1030.3	1004.3	978.2	973.0
27.5°	6322.1	6192.0	5702.9	4027.4	1472.6	993.8	983.4	947.0	895.0	853.4	837.7
30°	6561.5	6410.6	5728.9	3168.9	993.8	900.2	874.2	816.9	749.3	692.1	681.6
32.5°	6962.2	6780.0	5692.5	2263.5	858.6	801.3	744.1	676.4	577.6	530.7	520.3
35°	7586.6	7310.8	5645.7	1332.1	770.1	707.7	619.2	530.7	457.9	411.1	400.7
37.5°	8304.6	7825.9	5510.4	889.8	707.7	624.4	509.9	421.5	359.0	322.6	312.2
40°	9371.3	8580.4	4990.1	728.5	629.6	530.7	411.1	333.0	286.2	260.2	249.8
42.5°	10547.3	9444.2	4188.7	655.6	556.8	452.7	327.8	270.6	234.2	208.1	208.1
45°	11957.4	10344.4	3231.3	598.4	494.3	374.6	270.6	218.5	187.3	166.5	156.1
47.5°	13528.8	11161.3	2180.2	541.2	416.3	307.0	223.7	166.5	135.3	119.7	119.7
50°	14933.8	11884.6	1389.3	473.5	364.2	255.0	182.1	135.3	109.3	88.5	83.3
52.5°	16208.6	12436.1	957.4	416.3	312.2	208.1	150.9	109.3	83.3	67.6	67.6
55°	17514.6	12717.1	707.7	359.0	270.6	176.9	124.9	98.9	72.8	57.2	52.0
57.5°	18586.5	12836.8	541.2	312.2	228.9	140.5	109.3	83.3	62.4	46.8	41.6
60°	19502.3	12779.6	421.5	260.2	182.1	119.7	93.7	67.6	52.0	36.4	31.2
62.5°	20038.3	12436.1	333.0	223.7	145.7	104.1	78.1	57.2	36.4	26.0	20.8
65°	20048.7	11707.7	260.2	166.5	109.3	88.5	67.6	46.8	26.0	10.4	5.2
67.5°	18612.6	10131.0	208.1	130.1	88.5	67.6	52.0	36.4	10.4	0.0	0.0
70°	14559.1	7664.6	171.7	104.1	72.8	57.2	36.4	20.8	5.2	0.0	0.0
72.5°	9277.7	4589.4	140.5	83.3	62.4	41.6	26.0	15.6	0.0	0.0	0.0
75°	3881.7	1415.3	109.3	72.8	46.8	31.2	20.8	5.2	0.0	0.0	0.0
77.5°	999.1	447.5	88.5	62.4	46.8	26.0	15.6	5.2	0.0	0.0	0.0
80°	296.6	166.5	72.8	52.0	36.4	20.8	10.4	5.2	0.0	0.0	0.0
82.5°	135.3	98.9	62.4	46.8	31.2	20.8	10.4	0.0	0.0	0.0	0.0
85°	52.0	31.2	31.2	26.0	26.0	15.6	5.2	0.0	0.0	0.0	0.0
87.5°	20.8	10.4	10.4	10.4	5.2	5.2	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)