

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: P482479

Luminaire Tested: **IFLD-L-SA8D-740-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482479
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-740-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (128) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

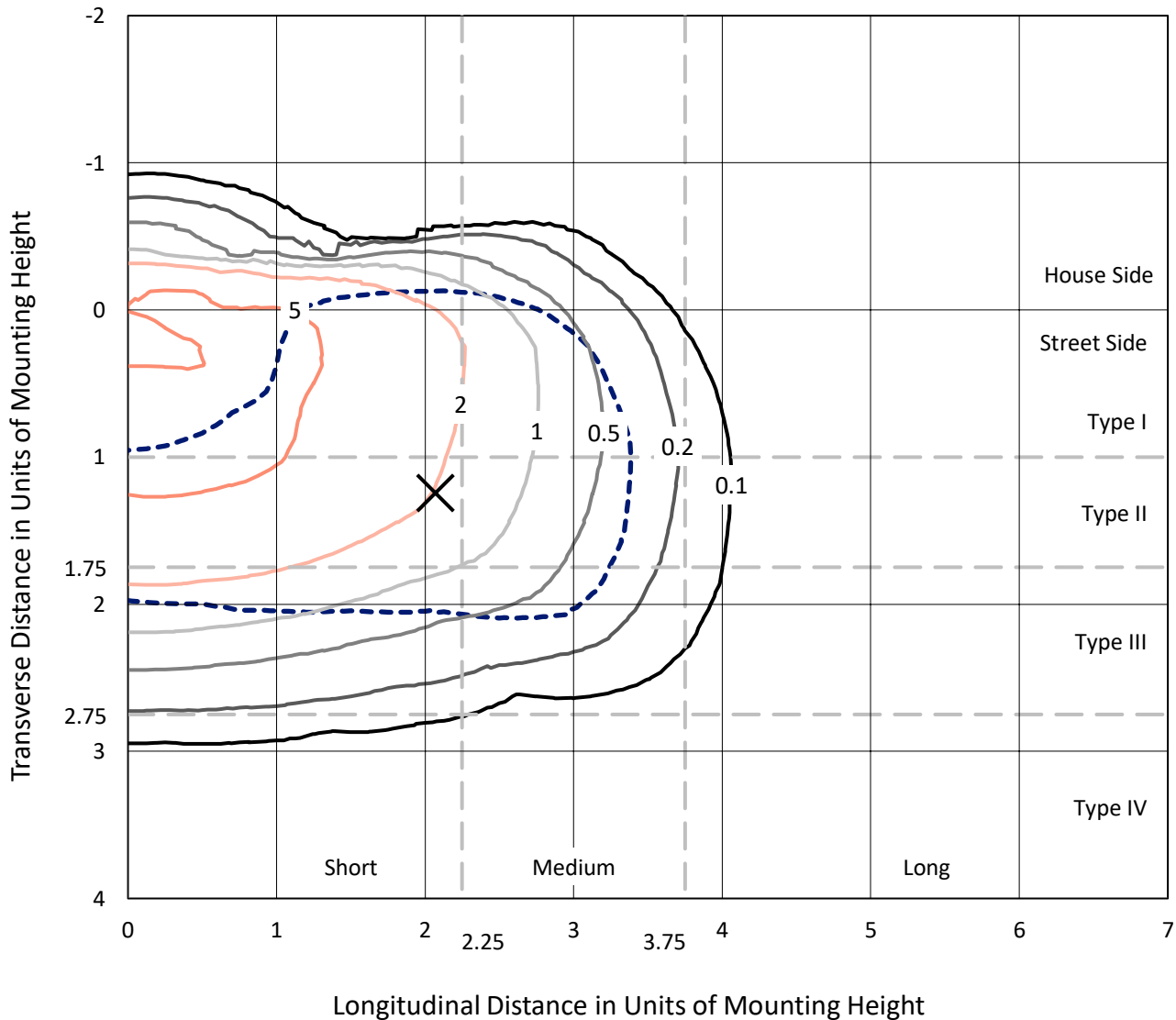
Lumens per Lamp: N/A
Luminaire Lumens: 41366.1 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (A_{in}): 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

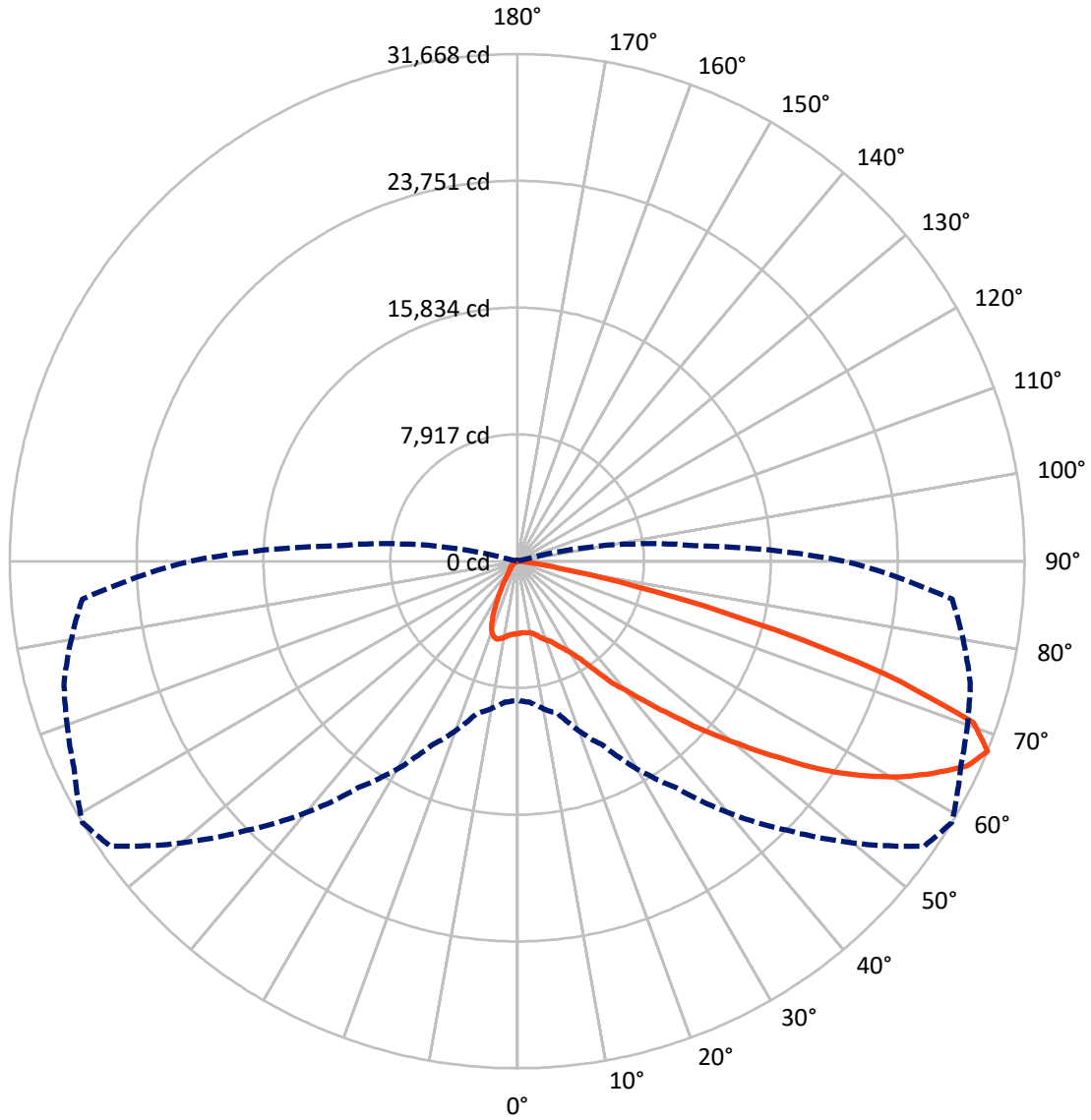
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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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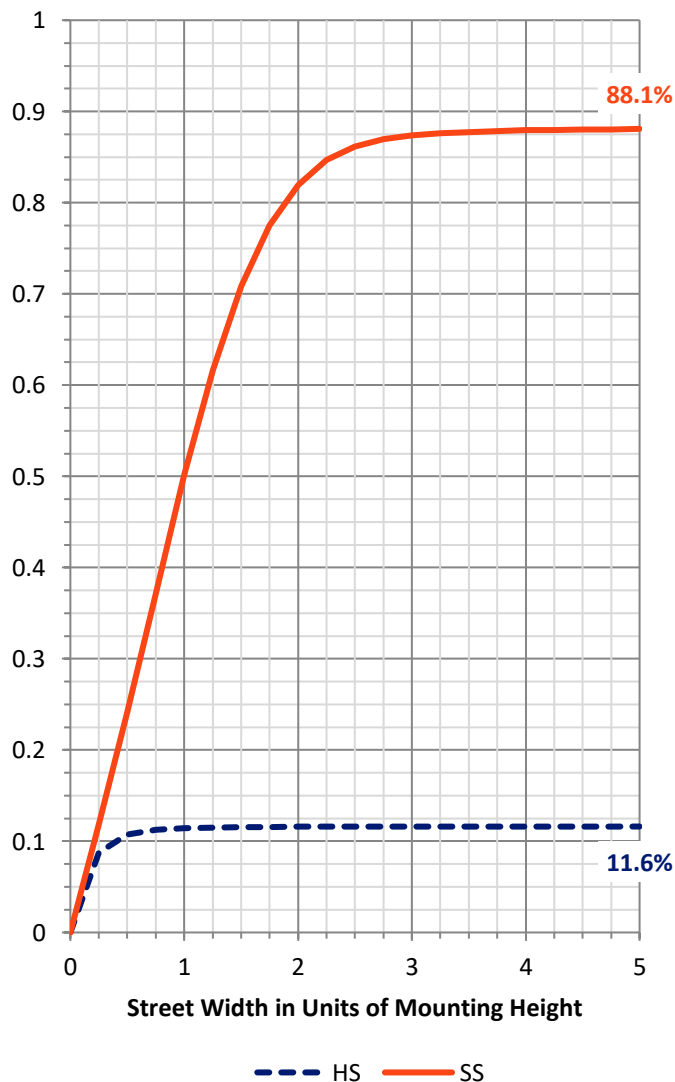
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4859.2	0.0	4859.2
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	36507.0	0.0	36507.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	41366.1	0.0	41366.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	431.0	1.0
10°-20°	1244.9	3.0
20°-30°	2175.8	5.3
30°-40°	3830.8	9.3
40°-50°	6771.6	16.4
50°-60°	10721.8	25.9
60°-70°	11893.5	28.8
70°-80°	4126.8	10.0
80°-90°	169.9	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°	41366.1	100.0
0°-180°	41366.1	100.0

Coefficient of Utilization

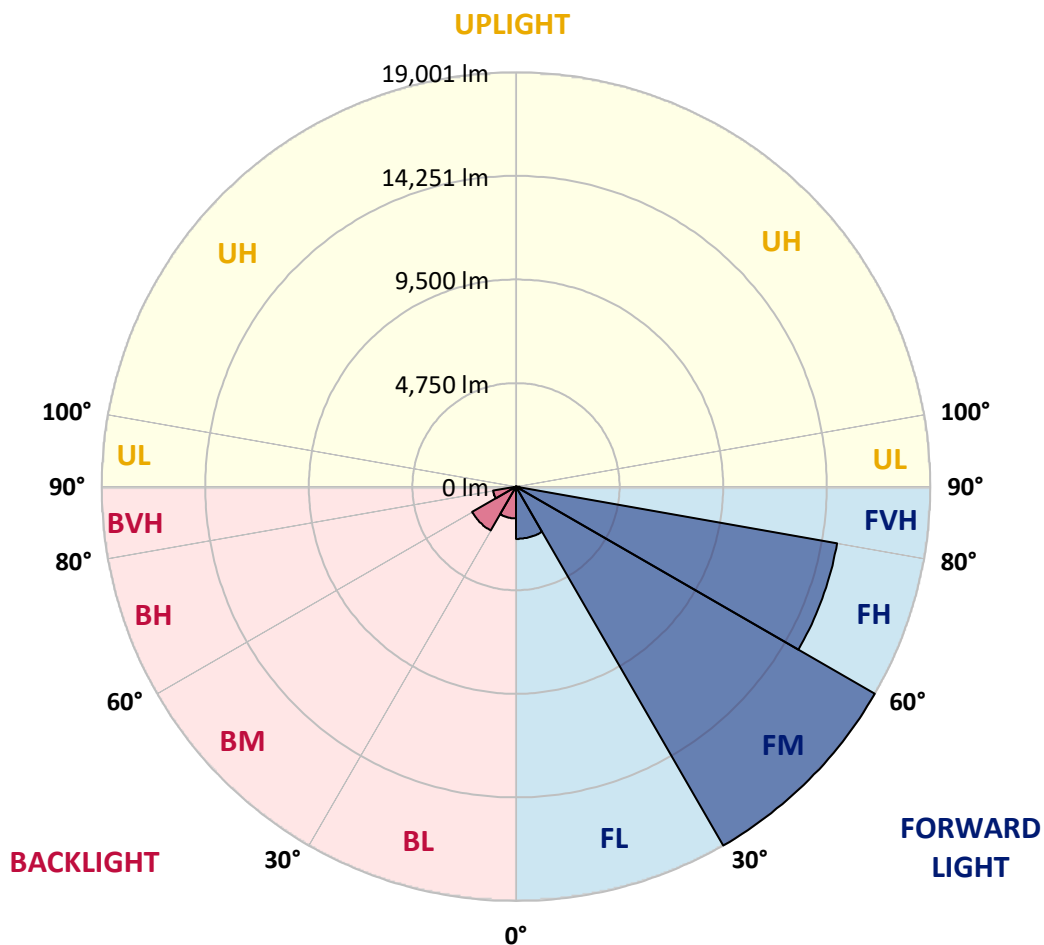


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2395.4	5.8			
FM (30°-60°)	19001.0	45.9			
FH (60°-80°)	14951.6	36.1			G5
FVH (80°-90°)	158.9	0.4			G2/225
BL (0°-30°)	1456.3	3.5	B3/2500		
BM (30°-60°)	2323.2	5.6	B2/2500		
BH (60°-80°)	1068.6	2.6	B3/2500		G3/2500
BVH (80°-90°)	11.0	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°	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1
2.5°	4405.7	4342.8	4400.0	4405.7	4411.4	4462.8	4520.0	4480.0	4474.3	4520.0	4560.0
5°	4228.5	4200.0	4268.5	4302.8	4360.0	4405.7	4497.1	4502.8	4508.5	4560.0	4628.5
7.5°	4154.3	4085.7	4165.7	4205.7	4245.7	4354.3	4462.8	4520.0	4600.0	4662.8	4731.4
10°	4005.7	4057.1	4080.0	4148.5	4262.8	4388.5	4520.0	4548.5	4725.7	4777.1	4942.8
12.5°	4057.1	4091.4	4137.1	4154.3	4280.0	4468.5	4645.7	4657.1	4840.0	5062.8	5148.5
15°	4188.5	4165.7	4182.8	4205.7	4354.3	4508.5	4794.3	4845.7	5017.1	5268.5	5480.0
17.5°	4468.5	4428.5	4400.0	4394.3	4428.5	4571.4	4908.5	5062.8	5222.8	5565.7	5674.3
20°	5171.4	5137.1	5022.8	4725.7	4622.8	4680.0	5045.7	5262.8	5485.7	5868.5	6045.7
22.5°	6240.0	6274.3	6005.7	5588.5	5160.0	4937.1	5262.8	5451.4	5805.7	6291.4	6451.4
25°	7502.8	7434.2	7108.5	6622.8	5948.5	5422.8	5611.4	5822.8	6257.1	6657.1	6720.0
27.5°	8491.4	8411.4	8160.0	7571.4	6988.5	6137.1	6068.5	6200.0	6714.3	7074.2	7005.7
30°	9468.5	9497.1	9325.7	8628.5	7908.5	7011.4	6577.1	6634.3	7028.5	7491.4	7337.1
32.5°	10714.2	10645.7	10548.5	9937.1	9085.7	8125.7	7382.8	7291.4	7462.8	8074.2	7891.4
35°	11874.2	11834.2	11702.8	11085.7	10342.8	9297.1	8571.4	8365.7	8325.7	9005.7	8685.7
37.5°	12885.6	12817.1	12617.1	12222.8	11502.8	10622.8	9828.5	9645.7	9639.9	10108.5	9491.4
40°	13737.1	13788.5	13765.6	13331.4	12937.1	12234.2	11017.1	10725.7	10702.8	10954.2	10594.2
42.5°	14839.9	14959.9	14897.1	14811.4	14337.1	14062.8	12685.6	12239.9	12039.9	12554.2	12228.5
45°	16508.5	16554.2	16594.2	16382.8	15908.5	15965.6	14411.4	13879.9	13828.5	14594.2	13862.8
47.5°	18068.5	17948.5	18228.5	18239.9	18217.0	17954.2	16274.2	15879.9	15948.5	16531.3	15777.1
50°	18457.0	18765.6	19537.0	19679.9	20051.3	20291.3	18342.8	17948.5	18062.8	18725.6	17862.8
52.5°	18759.9	19228.5	19999.9	21045.6	22045.6	22617.0	20657.0	20337.0	20331.3	20737.0	19548.5
55°	19291.3	19577.0	20245.6	21685.6	23588.4	24525.6	23445.6	22931.3	22468.5	22754.2	21297.0
57.5°	19239.9	19348.5	20388.5	22165.6	24811.3	26514.1	25737.0	25245.6	24651.3	24485.6	23308.4
60°	18337.0	18594.2	19759.9	21839.9	25565.6	28062.7	27874.1	27371.3	26348.4	25959.9	24851.3
62.5°	16548.5	16891.3	17805.6	20697.0	24468.4	28142.7	29348.4	29159.8	28017.0	27319.9	26862.7
65°	13411.4	13571.4	14622.8	17794.2	21988.5	26914.1	31091.3	30857.0	29805.6	28765.6	27897.0
67.5°	8685.7	8840.0	9851.4	12702.8	17268.5	23742.7	31022.7	31668.4	30531.3	29279.8	27251.3
70°	4102.8	4062.8	5005.7	7057.1	11062.8	18131.3	28925.6	30199.8	29234.1	26542.7	22634.2
72.5°	1251.4	1360.0	2080.0	3125.7	5680.0	11308.5	22674.2	23868.4	23565.6	21205.6	15108.5
75°	554.3	600.0	817.1	1280.0	2302.8	4640.0	14005.6	15068.5	14937.1	12508.5	6897.1
77.5°	354.3	388.6	514.3	731.4	1045.7	1474.3	6451.4	7485.7	7257.1	4394.3	1805.7
80°	251.4	268.6	365.7	502.9	657.1	605.7	2222.8	2640.0	2531.4	1194.3	485.7
82.5°	137.1	148.6	268.6	371.4	440.0	308.6	622.9	777.1	811.4	531.4	234.3
85°	51.4	62.9	165.7	262.9	228.6	142.9	182.9	222.9	291.4	291.4	108.6
87.5°	0.0	5.7	68.6	114.3	57.1	40.0	51.4	62.9	80.0	137.1	40.0
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°	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1	4537.1
2.5°	4588.5	4548.5	4565.7	4594.3	4531.4	4565.7	4497.1	4548.5	4565.7	4497.1	4531.4
5°	4645.7	4685.7	4662.8	4617.1	4577.1	4588.5	4571.4	4531.4	4565.7	4577.1	4554.3
7.5°	4811.4	4765.7	4777.1	4725.7	4645.7	4640.0	4531.4	4502.8	4514.3	4525.7	4485.7
10°	4965.7	4994.3	4937.1	4897.1	4765.7	4680.0	4531.4	4371.4	4354.3	4285.7	4342.8
12.5°	5240.0	5171.4	5148.5	5017.1	4885.7	4600.0	4280.0	4034.3	3828.6	3754.3	3680.0
15°	5468.5	5457.1	5417.1	5217.1	4914.3	4394.3	3788.6	3217.1	2822.8	2577.1	2542.8
17.5°	5782.8	5731.4	5657.1	5342.8	4702.8	3857.1	2822.8	2102.8	1708.6	1554.3	1497.1
20°	6022.8	5982.8	5880.0	5314.3	4320.0	2874.3	1748.6	1337.1	1240.0	1211.4	1217.1
22.5°	6371.4	6245.7	6051.4	5171.4	3622.8	1914.3	1257.1	1194.3	1177.1	1154.3	1160.0
25°	6674.3	6560.0	6154.3	4925.7	2582.8	1268.6	1165.7	1131.4	1102.9	1074.3	1068.6
27.5°	6942.8	6800.0	6262.8	4422.8	1617.1	1091.4	1080.0	1040.0	982.9	937.1	920.0
30°	7205.7	7040.0	6291.4	3480.0	1091.4	988.6	960.0	897.1	822.9	760.0	748.6
32.5°	7645.7	7445.7	6251.4	2485.7	942.9	880.0	817.1	742.9	634.3	582.9	571.4
35°	8331.4	8028.5	6200.0	1462.8	845.7	777.1	680.0	582.9	502.9	451.4	440.0
37.5°	9120.0	8594.2	6051.4	977.1	777.1	685.7	560.0	462.9	394.3	354.3	342.9
40°	10291.4	9422.8	5480.0	800.0	691.4	582.9	451.4	365.7	314.3	285.7	274.3
42.5°	11582.8	10371.4	4600.0	720.0	611.4	497.1	360.0	297.1	257.1	228.6	228.6
45°	13131.4	11359.9	3548.6	657.1	542.9	411.4	297.1	240.0	205.7	182.9	171.4
47.5°	14857.1	12257.1	2394.3	594.3	457.1	337.1	245.7	182.9	148.6	131.4	131.4
50°	16399.9	13051.4	1525.7	520.0	400.0	280.0	200.0	148.6	120.0	97.1	91.4
52.5°	17799.9	13657.1	1051.4	457.1	342.9	228.6	165.7	120.0	91.4	74.3	74.3
55°	19234.2	13965.6	777.1	394.3	297.1	194.3	137.1	108.6	80.0	62.9	57.1
57.5°	20411.3	14097.1	594.3	342.9	251.4	154.3	120.0	91.4	68.6	51.4	45.7
60°	21417.0	14034.2	462.9	285.7	200.0	131.4	102.9	74.3	57.1	40.0	34.3
62.5°	22005.6	13657.1	365.7	245.7	160.0	114.3	85.7	62.9	40.0	28.6	22.9
65°	22017.0	12857.1	285.7	182.9	120.0	97.1	74.3	51.4	28.6	11.4	5.7
67.5°	20439.9	11125.7	228.6	142.9	97.1	74.3	57.1	40.0	11.4	0.0	0.0
70°	15988.5	8417.1	188.6	114.3	80.0	62.9	40.0	22.9	5.7	0.0	0.0
72.5°	10188.5	5040.0	154.3	91.4	68.6	45.7	28.6	17.1	0.0	0.0	0.0
75°	4262.8	1554.3	120.0	80.0	51.4	34.3	22.9	5.7	0.0	0.0	0.0
77.5°	1097.1	491.4	97.1	68.6	51.4	28.6	17.1	5.7	0.0	0.0	0.0
80°	325.7	182.9	80.0	57.1	40.0	22.9	11.4	5.7	0.0	0.0	0.0
82.5°	148.6	108.6	68.6	51.4	34.3	22.9	11.4	0.0	0.0	0.0	0.0
85°	57.1	34.3	34.3	28.6	28.6	17.1	5.7	0.0	0.0	0.0	0.0
87.5°	22.9	11.4	11.4	11.4	5.7	5.7	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)