

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: P484692

Luminaire Tested: **IFLD-M-SA4D-727-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484692
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

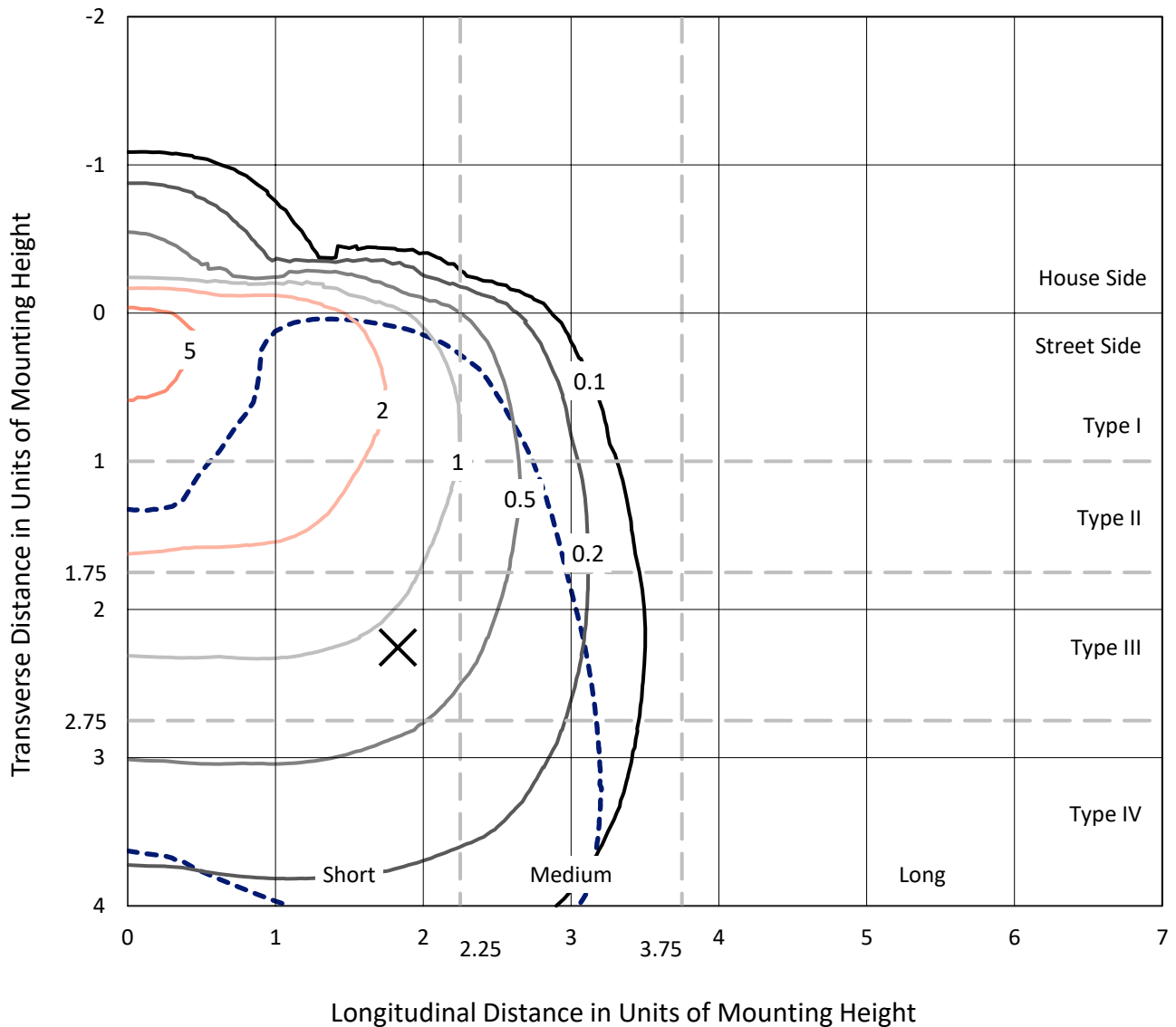
Lumens per Lamp: N/A
Luminaire Lumens: 21613.5 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

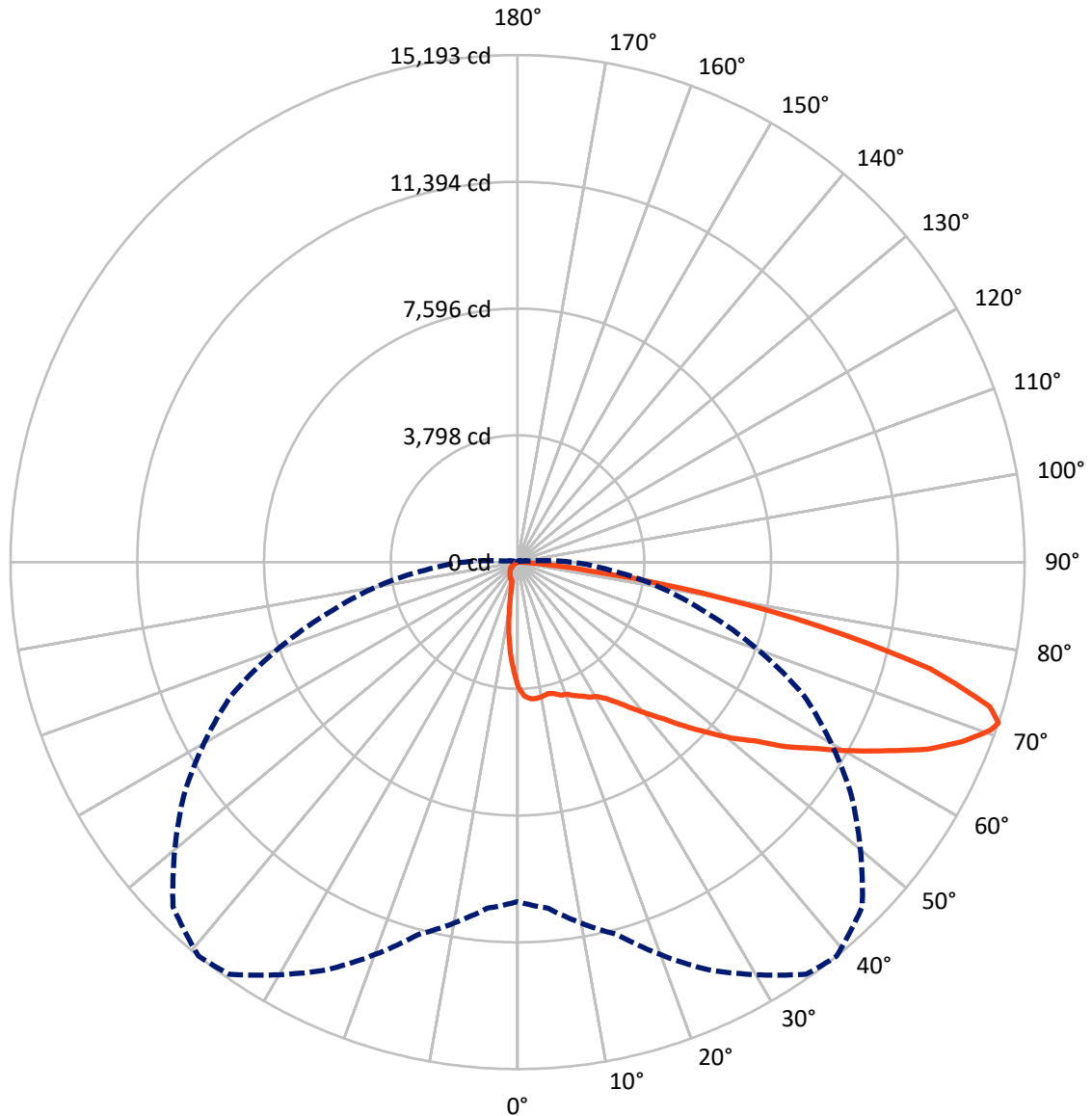
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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



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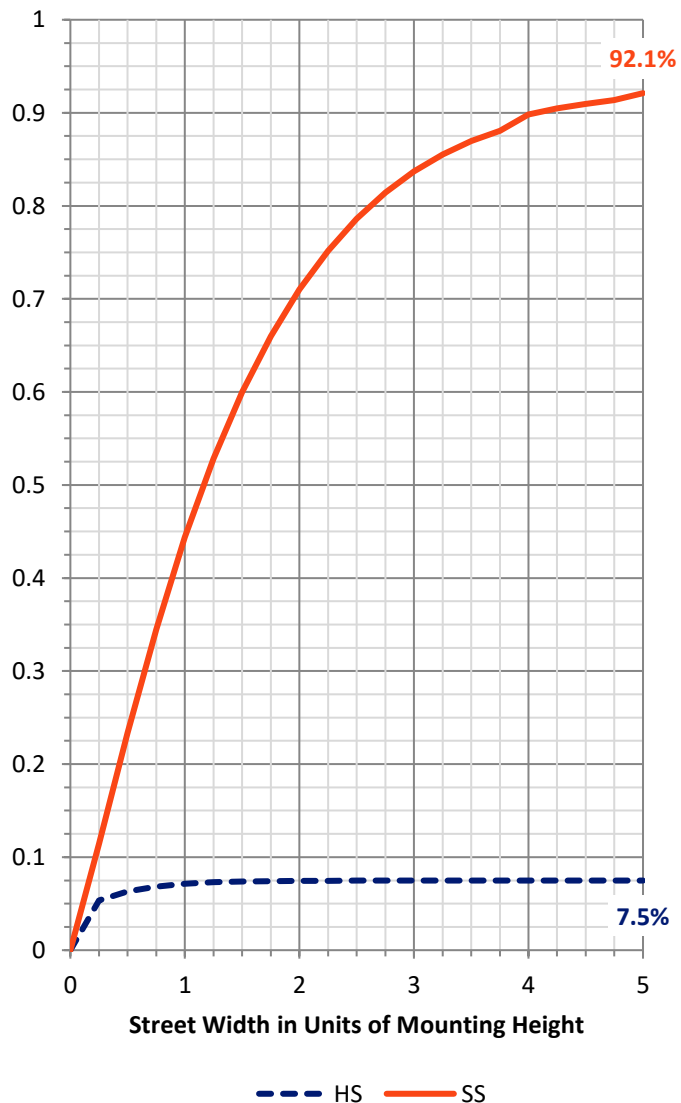
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1627.1	0.0	1627.1
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	19986.3	0.0	19986.3
	% Fixture	92.5	0.0	92.5
Total	Lumens	21613.5	0.0	21613.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.5	1.5
10°-20°	774.2	3.6
20°-30°	1242.8	5.8
30°-40°	1902.4	8.8
40°-50°	3053.7	14.1
50°-60°	4485.4	20.8
60°-70°	5649.1	26.1
70°-80°	3770.1	17.4
80°-90°	421.3	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°	21613.5	100.0
0°-180°	21613.5	100.0

Coefficient of Utilization



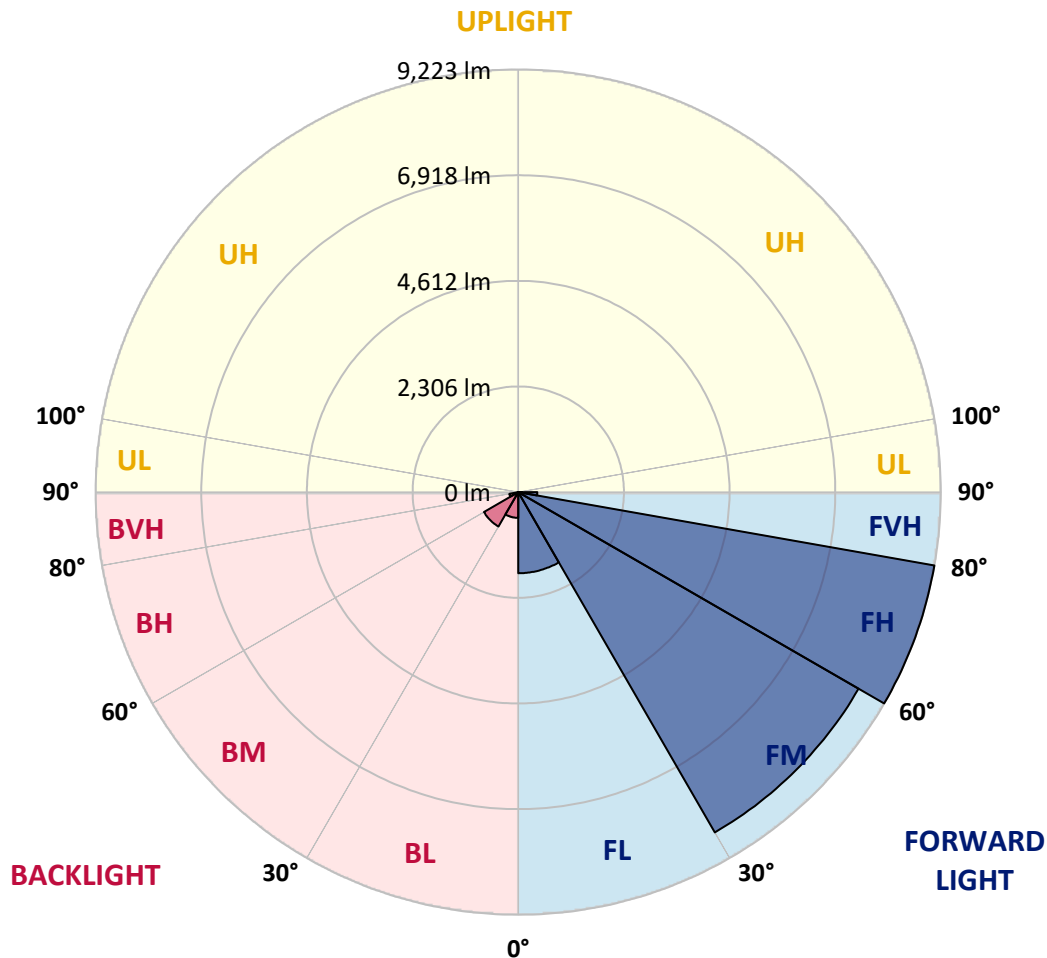
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1769.7	8.2			
FM (30°-60°)	8576.6	39.7			
FH (60°-80°)	9223.4	42.7			G4/12000
FVH (80°-90°)	416.7	1.9			G3/500
BL (0°-30°)	561.8	2.6	B2/1000		
BM (30°-60°)	864.9	4.0	B1/1000		
BH (60°-80°)	195.8	0.9	B1/500		G1/500
BVH (80°-90°)	4.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0
2.5°	4054.0	4093.7	4054.0	4037.0	4019.9	4022.8	3977.4	3985.9	3932.1	3861.2	3804.5
5°	4181.5	4235.4	4192.9	4173.0	4170.2	4116.3	4093.7	4039.8	3974.6	3864.0	3796.0
7.5°	4170.2	4158.9	4178.7	4161.7	4124.8	4124.8	4099.3	4022.8	3957.6	3832.8	3716.6
10°	4085.2	4119.2	4102.2	4082.3	4090.8	4093.7	4045.5	3991.6	3971.8	3847.0	3657.1
12.5°	4076.6	4019.9	4082.3	4085.2	4048.3	4045.5	4039.8	4025.6	3963.2	3849.9	3671.3
15°	4048.3	4025.6	4088.0	4090.8	4099.3	4090.8	4099.3	4088.0	4025.6	3960.4	3733.6
17.5°	4071.0	4045.5	4133.3	4175.9	4156.0	4195.7	4181.5	4130.5	4076.6	4000.1	3793.2
20°	4076.6	4113.5	4209.9	4226.9	4289.3	4224.1	4221.2	4167.4	4133.3	4051.1	3830.0
22.5°	4181.5	4198.5	4317.6	4354.5	4357.3	4348.8	4277.9	4215.6	4201.4	4099.3	3838.5
25°	4340.3	4399.8	4453.7	4476.4	4484.9	4445.2	4371.5	4292.1	4258.1	4192.9	3926.4
27.5°	4621.0	4584.1	4632.3	4666.3	4569.9	4584.1	4490.5	4422.5	4374.3	4317.6	4028.5
30°	4870.4	4836.4	4839.2	4833.6	4751.4	4674.8	4649.3	4530.2	4470.7	4493.4	4187.2
32.5°	5094.4	5020.7	5083.1	5054.7	4901.6	4878.9	4859.1	4708.8	4720.2	4825.1	4425.3
35°	5301.3	5275.8	5326.9	5275.8	5173.8	5168.1	5148.3	5017.8	5080.2	5230.5	4833.6
37.5°	5491.3	5499.8	5562.2	5536.6	5545.1	5550.8	5539.5	5400.6	5579.2	5916.5	5309.8
40°	5667.0	5655.7	5808.8	5888.2	5905.2	5967.6	5967.6	5933.5	6208.5	6588.4	5970.4
42.5°	5854.2	5882.5	6081.0	6214.2	6375.8	6429.6	6503.4	6520.4	6945.6	7379.4	6645.1
45°	6160.3	6112.1	6364.4	6679.1	6820.9	7010.8	7124.2	7220.6	7733.7	8329.1	7319.8
47.5°	6548.7	6452.3	6673.5	7129.9	7458.7	7614.7	7818.8	7946.3	8448.1	9063.3	7957.7
50°	6979.6	6880.4	6988.1	7617.5	8000.2	8283.7	8544.5	8706.1	9312.8	9885.4	8422.6
52.5°	7467.2	7376.5	7393.5	8124.9	8689.1	8896.0	9239.1	9480.0	10083.9	10381.6	8587.0
55°	7986.0	7963.4	7909.5	8621.1	9292.9	9757.9	9964.8	10254.0	10874.8	10650.9	8765.6
57.5°	8507.7	8436.8	8513.3	9278.8	10262.5	10540.3	10826.6	10999.6	11314.3	10886.2	8697.6
60°	8998.1	9003.8	9111.5	9993.2	11087.5	11481.5	11739.5	11634.6	11765.0	10988.2	8541.7
62.5°	9412.0	9400.7	9672.8	10795.5	12178.9	12445.4	12638.2	12170.4	11974.8	11087.5	8269.5
65°	9783.4	9911.0	10339.0	11750.8	13205.2	13511.3	13395.1	12677.9	12178.9	10795.5	7504.1
67.5°	10064.0	10254.0	10996.7	12649.5	14146.4	14361.8	14200.2	13063.4	11937.9	9650.1	6112.1
70°	10228.5	10421.2	11467.3	13397.9	14897.6	15053.5	14673.7	12765.7	10531.8	6988.1	3813.0
71°	10177.4	10412.7	11558.1	13477.3	15076.2	15192.5	14602.8	12215.8	9471.5	5851.3	2781.1
72.5°	9715.3	9936.5	11181.0	13420.6	14860.8	14789.9	14050.0	10894.7	7455.9	3730.8	1437.3
75°	7138.4	7376.5	9596.3	11609.1	13264.7	12777.1	11371.0	7645.8	3889.5	1142.5	419.6
77.5°	3555.0	3594.7	5956.2	8428.3	9729.5	9244.7	7620.3	4263.8	1454.3	337.4	209.8
80°	1638.6	1649.9	2233.9	4365.8	5882.5	5536.6	4269.4	2103.5	657.7	178.6	164.4
82.5°	1117.0	1134.0	1346.6	1808.7	2554.3	2154.6	1729.3	1346.6	377.0	107.7	161.6
85°	204.1	187.1	754.1	958.2	986.6	669.0	598.2	1165.2	141.7	62.4	141.7
87.5°	0.0	2.8	104.9	391.2	351.5	155.9	204.1	283.5	14.2	19.8	25.5
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°	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0	3762.0
2.5°	3756.3	3725.1	3620.2	3504.0	3399.1	3316.9	3212.0	3163.8	3087.3	3044.7	3041.9
5°	3702.4	3617.4	3435.9	3240.3	3022.0	2840.6	2639.3	2525.9	2395.5	2355.8	2347.3
7.5°	3611.7	3489.8	3223.3	2948.3	2613.8	2293.5	2046.8	1783.2	1621.6	1553.5	1528.0
10°	3555.0	3407.6	3044.7	2633.7	2165.9	1715.1	1369.3	1088.6	941.2	870.3	853.3
12.5°	3555.0	3396.3	2900.1	2333.2	1712.3	1173.7	847.6	686.1	637.9	620.9	620.9
15°	3546.5	3373.6	2761.2	2024.1	1267.2	788.1	632.2	598.2	592.5	589.7	586.8
17.5°	3589.0	3333.9	2619.5	1692.5	895.8	620.9	581.2	575.5	569.8	569.8	564.2
20°	3620.2	3311.2	2449.4	1340.9	669.0	575.5	558.5	550.0	547.1	544.3	550.0
22.5°	3594.7	3277.2	2239.6	1003.6	584.0	547.1	535.8	527.3	521.6	521.6	524.5
25°	3642.9	3246.0	2029.8	756.9	547.1	521.6	510.3	504.6	501.8	498.9	493.3
27.5°	3708.1	3260.2	1780.3	609.5	516.0	496.1	484.8	479.1	476.3	470.6	476.3
30°	3787.5	3257.3	1505.4	533.0	487.6	467.8	456.4	453.6	447.9	445.1	447.9
32.5°	3923.6	3331.1	1221.9	493.3	456.4	439.4	428.1	425.2	422.4	419.6	416.7
35°	4215.6	3421.8	955.4	462.1	428.1	408.2	399.7	394.1	391.2	388.4	385.6
37.5°	4575.6	3623.1	728.6	433.7	399.7	379.9	371.4	368.5	357.2	354.4	351.5
40°	5026.4	3838.5	561.3	402.6	374.2	354.4	345.9	337.4	323.2	317.5	311.8
42.5°	5587.7	4048.3	462.1	374.2	345.9	331.7	317.5	303.3	292.0	280.7	275.0
45°	6149.0	4292.1	405.4	348.7	323.2	306.2	294.8	275.0	255.1	238.1	235.3
47.5°	6616.8	4380.0	371.4	320.3	300.5	286.3	269.3	243.8	215.5	198.4	195.6
50°	6965.5	4329.0	337.4	292.0	275.0	260.8	238.1	207.0	178.6	161.6	155.9
52.5°	7033.5	4105.0	306.2	269.3	249.5	232.5	207.0	172.9	141.7	124.7	121.9
55°	6985.3	3733.6	280.7	249.5	226.8	201.3	172.9	138.9	110.6	93.6	90.7
57.5°	6886.1	3294.2	252.3	224.0	198.4	172.9	141.7	113.4	82.2	65.2	65.2
60°	6548.7	2696.0	224.0	195.6	170.1	147.4	116.2	82.2	56.7	42.5	39.7
62.5°	6078.1	2072.3	195.6	167.3	147.4	121.9	90.7	59.5	34.0	22.7	22.7
65°	5219.1	1451.5	164.4	138.9	121.9	99.2	68.0	36.9	19.8	8.5	8.5
67.5°	3966.1	898.7	136.1	116.2	104.9	79.4	48.2	22.7	8.5	2.8	0.0
70°	2276.5	467.8	107.7	93.6	82.2	59.5	34.0	11.3	5.7	0.0	0.0
71°	1590.4	345.9	96.4	82.2	73.7	53.9	28.3	8.5	2.8	0.0	0.0
72.5°	796.6	229.6	82.2	68.0	59.5	42.5	22.7	8.5	2.8	0.0	0.0
75°	283.5	147.4	56.7	45.4	42.5	31.2	14.2	5.7	2.8	0.0	0.0
77.5°	195.6	119.1	39.7	28.3	28.3	19.8	8.5	2.8	2.8	0.0	0.0
80°	178.6	65.2	25.5	17.0	14.2	11.3	5.7	2.8	0.0	0.0	0.0
82.5°	178.6	48.2	14.2	11.3	8.5	5.7	2.8	0.0	0.0	0.0	0.0
85°	124.7	25.5	8.5	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
87.5°	19.8	8.5	5.7	2.8	2.8	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)