

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: P484139

Luminaire Tested: **IFLD-S-SA6B-827-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484139
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

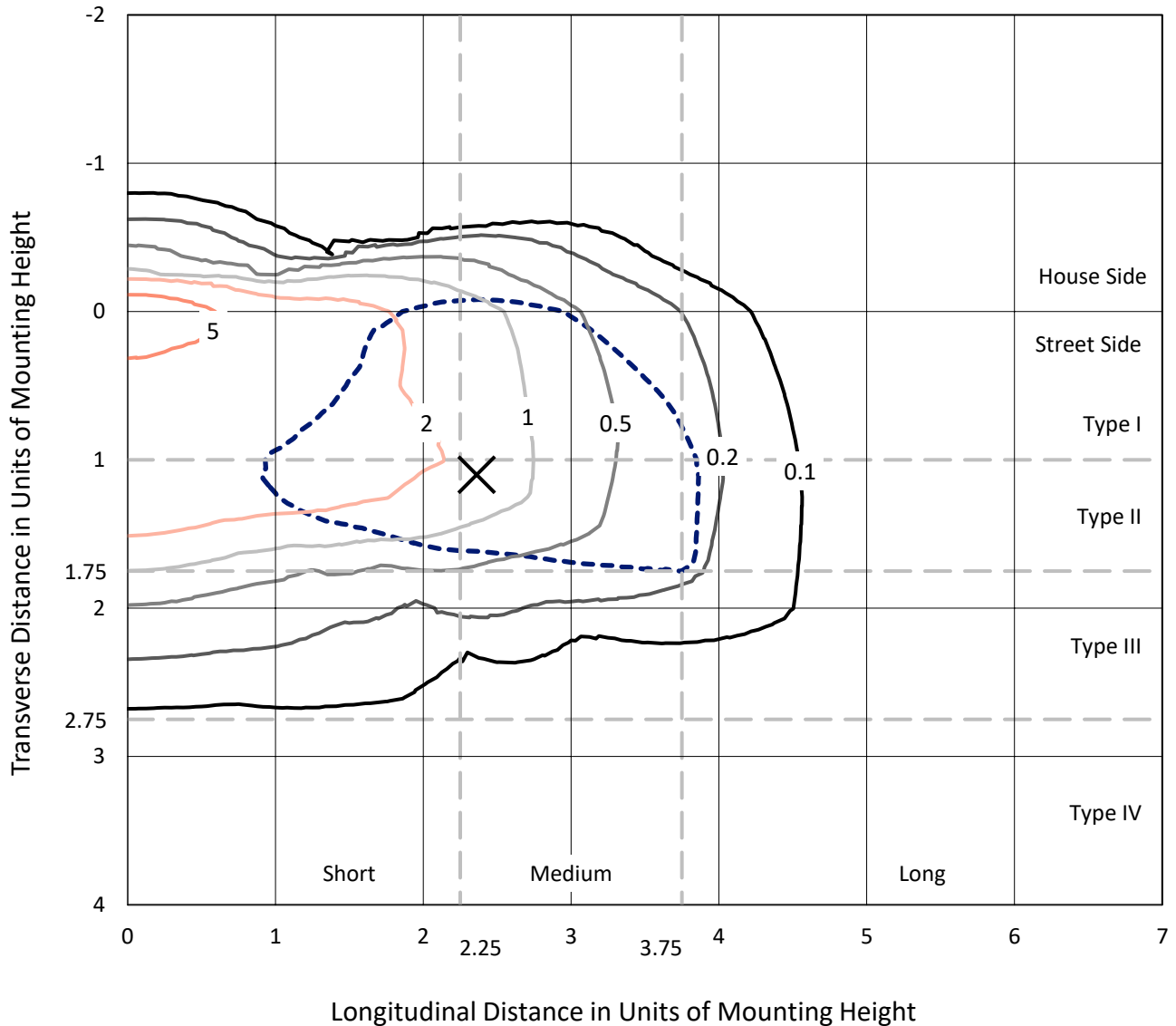
Lumens per Lamp: N/A
Luminaire Lumens: 20195.6 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 244.9
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

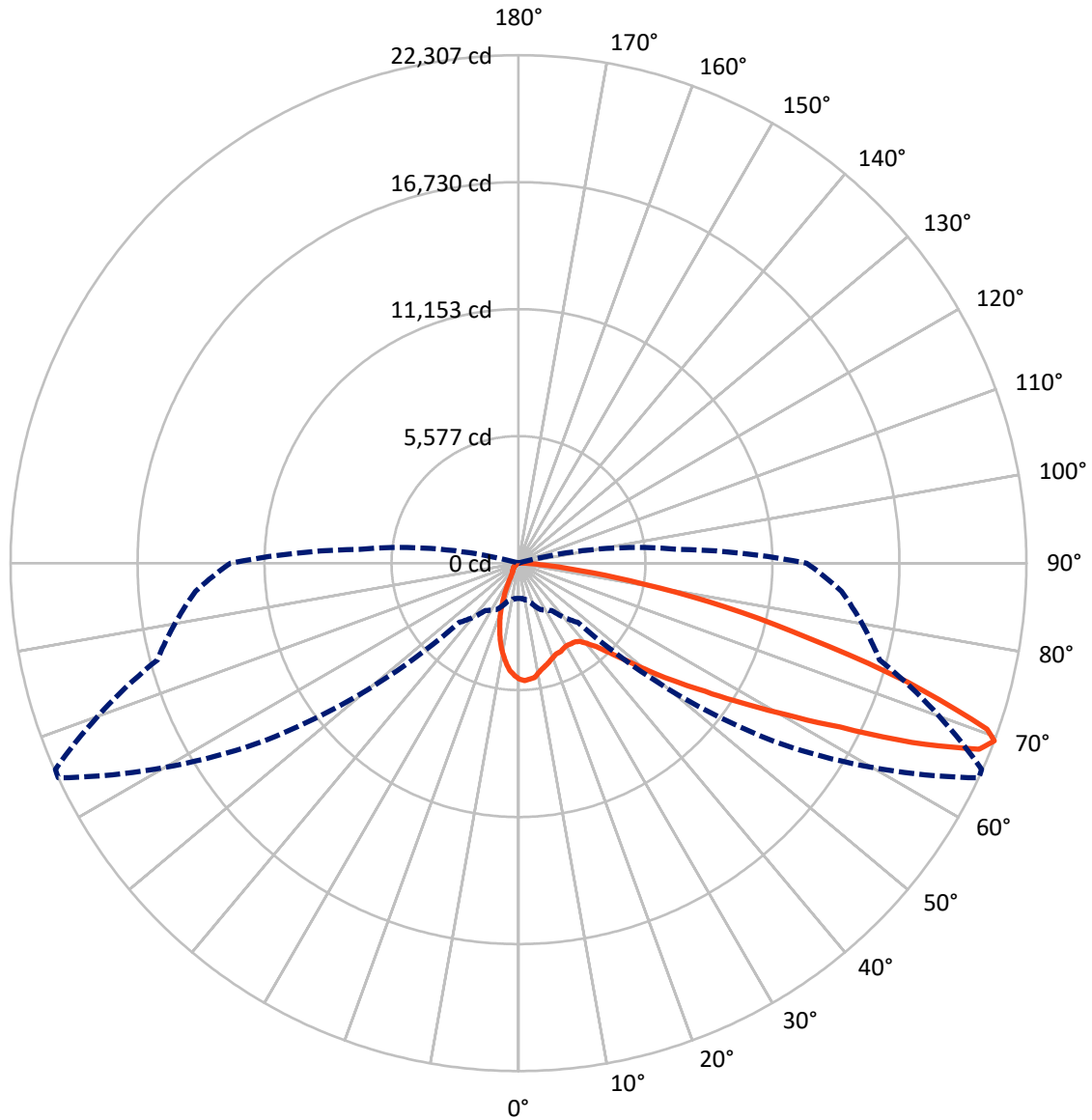
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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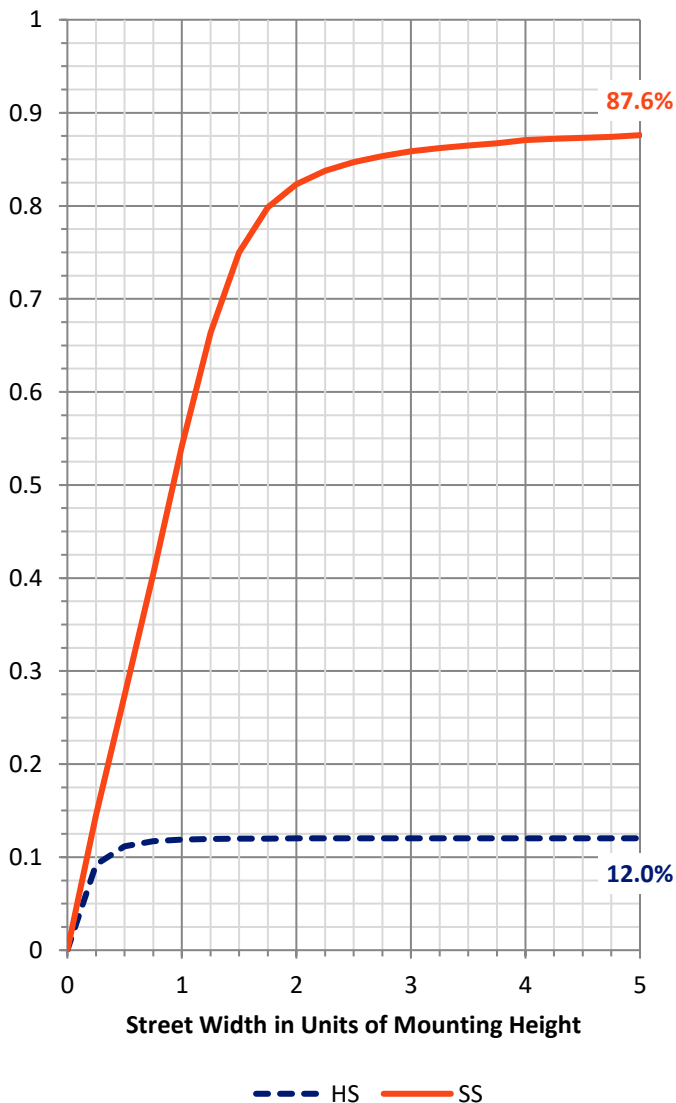
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2449.8	0.0	2449.8
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	17745.7	0.0	17745.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	20195.6	0.0	20195.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.7	2.1
10°-20°	911.7	4.5
20°-30°	1269.3	6.3
30°-40°	1798.7	8.9
40°-50°	2834.6	14.0
50°-60°	4599.6	22.8
60°-70°	5136.8	25.4
70°-80°	2892.6	14.3
80°-90°	335.7	1.7
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°	20195.6	100.0
0°-180°	20195.6	100.0



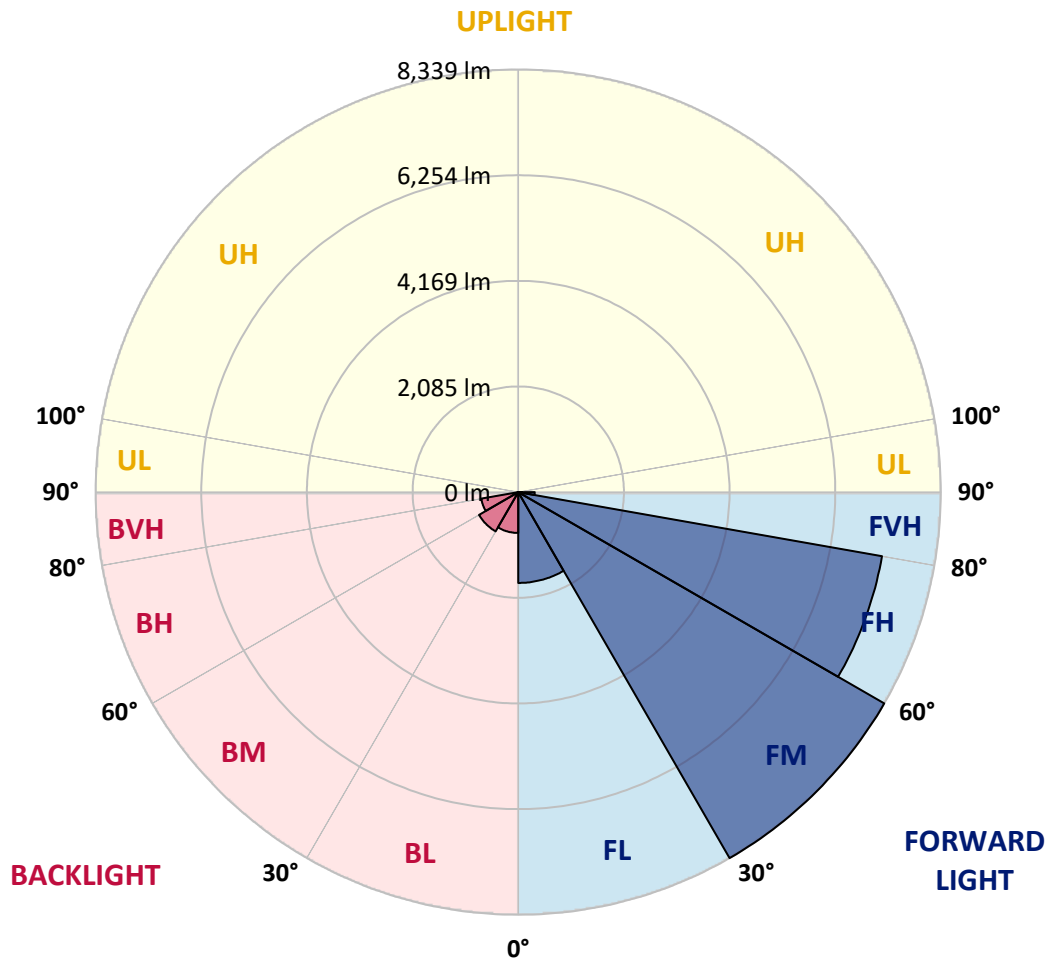
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1792.2	8.9			
FM (30°-60°)	8338.9	41.3			
FH (60°-80°)	7288.2	36.1			G3/7500
FVH (80°-90°)	326.4	1.6			G3/500
BL (0°-30°)	805.4	4.0	B2/1000		
BM (30°-60°)	893.9	4.4	B1/1000		
BH (60°-80°)	741.2	3.7	B2/1000		G2/1000
BVH (80°-90°)	9.3	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8
2.5°	4903.8	4941.9	4952.8	4991.0	5010.0	5091.8	5138.1	5165.3	5151.7	5181.7	5184.4
5°	4555.1	4533.3	4590.5	4631.4	4718.5	4860.2	5004.6	5116.3	5168.1	5217.1	5208.9
7.5°	4181.8	4170.9	4228.2	4320.8	4399.8	4571.4	4803.0	5078.1	5067.3	5187.1	5222.5
10°	3925.8	3936.7	3955.7	4048.4	4165.5	4339.9	4628.6	4884.7	4941.9	5195.3	5266.1
12.5°	3691.5	3710.5	3746.0	3841.3	3977.5	4157.3	4437.9	4737.6	4824.8	5149.0	5290.6
15°	3615.2	3571.6	3642.4	3713.3	3854.9	4015.7	4252.7	4625.9	4664.1	5094.5	5331.5
17.5°	3552.5	3525.3	3558.0	3615.2	3765.0	3895.8	4119.2	4506.0	4576.9	5072.7	5326.1
20°	3571.6	3547.1	3560.7	3604.3	3672.4	3795.0	4002.0	4391.6	4467.9	4971.9	5317.9
22.5°	3626.1	3645.2	3620.6	3631.5	3653.3	3716.0	3939.4	4309.9	4375.3	4952.8	5364.2
25°	3871.3	3838.6	3805.9	3792.3	3664.2	3691.5	3920.3	4304.4	4350.8	4884.7	5326.1
27.5°	4127.4	4100.1	4086.5	4007.5	3833.1	3751.4	3923.0	4228.2	4290.8	4857.5	5279.7
30°	4437.9	4473.3	4418.9	4323.5	4081.0	3879.4	3953.0	4190.0	4277.2	4754.0	5249.8
32.5°	4764.9	4783.9	4811.2	4740.3	4427.0	4072.9	4042.9	4225.4	4230.9	4754.0	5181.7
35°	5135.4	5108.1	5178.9	5184.4	4909.2	4416.1	4214.5	4250.0	4307.2	4732.2	5157.2
37.5°	5454.1	5500.4	5582.2	5712.9	5429.6	4901.1	4481.5	4364.4	4388.9	4833.0	5176.2
40°	5802.8	5849.1	6034.4	6165.2	6004.4	5445.9	4887.4	4631.4	4650.4	4982.8	5274.3
42.5°	6187.0	6276.9	6497.5	6726.4	6682.8	6137.9	5410.5	5023.7	5015.5	5356.0	5475.9
45°	6707.3	6827.2	7066.9	7331.2	7369.3	6930.7	6107.9	5609.4	5636.6	5843.7	5892.7
47.5°	7432.0	7426.5	7660.8	7955.0	8175.7	7753.4	6941.6	6396.7	6394.0	6614.7	6511.1
50°	8132.1	8134.8	8197.5	8538.0	9110.2	8894.9	7974.1	7442.9	7412.9	7521.9	7355.7
52.5°	8456.3	8418.2	8371.9	8783.2	9829.4	10333.4	9281.8	8628.0	8603.4	8538.0	8494.5
55°	8115.8	8129.4	8126.7	8554.4	10208.1	11850.8	10960.0	9932.9	9892.0	9687.7	9747.6
57.5°	7023.3	6979.7	7075.1	7742.5	9774.9	12886.1	13360.1	11578.4	11472.1	10793.8	10657.6
60°	5228.0	5241.6	5320.6	6107.9	8698.8	13104.0	15656.7	13509.9	13052.3	11572.9	11385.0
62.5°	3650.6	3623.4	3653.3	4094.7	6219.6	12232.2	17209.6	15858.3	15417.0	12458.4	12349.4
65°	2612.6	2577.2	2697.1	2966.8	3735.1	9352.6	17430.3	18985.8	18590.8	13872.3	13610.7
67.5°	1879.8	1874.3	2013.3	2503.7	2653.5	5386.0	15795.7	21819.2	21579.4	15550.5	14379.0
69°	1555.6	1558.3	1691.8	2242.1	2533.6	3677.8	13591.7	22306.8	22263.2	16416.8	14234.6
70°	1356.7	1367.6	1522.9	2086.8	2484.6	3024.0	11717.3	21827.3	21783.7	16585.7	13757.9
72.5°	836.4	844.5	1048.9	1672.7	2362.0	2468.2	7007.0	17858.0	18007.8	15812.0	11853.6
75°	400.5	403.2	550.3	1209.6	2277.5	2340.2	3754.1	13177.6	13493.6	12766.2	9262.7
77.5°	212.5	212.5	264.3	642.9	1844.4	2201.3	2228.5	9295.4	9556.9	8072.2	5266.1
80°	106.2	109.0	160.7	335.1	1144.2	2157.7	1740.8	5544.0	5685.7	3293.7	1640.0
82.5°	40.9	43.6	76.3	201.6	593.9	1822.6	1528.3	2727.1	2691.6	771.0	400.5
85°	5.4	5.4	27.2	119.9	253.4	803.7	1261.4	1138.8	1100.6	168.9	193.4
87.5°	0.0	0.0	5.4	35.4	76.3	234.3	487.7	313.3	348.7	46.3	95.4
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°	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8	5091.8
2.5°	5170.8	5113.6	5026.4	4941.9	4852.0	4743.1	4623.2	4579.6	4503.3	4497.9	4541.5
5°	5165.3	5072.7	4920.1	4740.3	4484.2	4290.8	4081.0	3928.5	3811.3	3735.1	3754.1
7.5°	5192.6	5080.9	4816.6	4429.8	4100.1	3716.0	3391.8	3168.4	2964.1	2863.3	2852.4
10°	5149.0	4999.1	4612.3	4070.1	3585.2	3048.5	2574.5	2274.8	1969.7	1858.0	1863.4
12.5°	5173.5	4963.7	4391.6	3699.6	3032.2	2334.7	1768.1	1359.4	1073.4	980.8	969.9
15°	5189.8	4887.4	4179.1	3255.6	2419.2	1591.0	1024.3	771.0	681.1	664.7	662.0
17.5°	5127.2	4794.8	3879.4	2817.0	1792.6	967.1	681.1	629.3	613.0	602.1	596.6
20°	5124.5	4740.3	3620.6	2367.4	1196.0	659.3	588.5	569.4	544.9	536.7	536.7
22.5°	5078.1	4625.9	3310.1	1874.3	762.8	566.7	528.5	498.6	471.3	460.4	457.7
25°	5064.5	4492.4	3018.6	1408.5	580.3	506.7	468.6	425.0	392.3	376.0	367.8
27.5°	5026.4	4378.0	2724.3	991.7	506.7	452.2	403.2	356.9	318.7	294.2	291.5
30°	4890.2	4258.1	2397.4	686.5	460.4	400.5	346.0	291.5	253.4	237.0	231.6
32.5°	4833.0	4146.4	2040.5	528.5	419.5	354.2	291.5	242.5	212.5	196.2	193.4
35°	4764.9	3983.0	1694.5	460.4	381.4	307.8	245.2	204.3	179.8	166.2	166.2
37.5°	4773.0	3852.2	1370.3	416.8	340.5	264.3	209.8	174.4	152.6	138.9	138.9
40°	4748.5	3748.7	1065.2	378.7	302.4	226.1	177.1	147.1	128.0	114.4	111.7
42.5°	4860.2	3721.4	803.7	346.0	264.3	193.4	152.6	125.3	106.2	89.9	89.9
45°	5048.2	3765.0	626.6	316.0	226.1	166.2	130.8	103.5	84.5	73.6	70.8
47.5°	5549.5	3936.7	490.4	291.5	193.4	144.4	109.0	84.5	68.1	57.2	54.5
50°	6276.9	4320.8	416.8	256.1	163.5	122.6	89.9	65.4	54.5	43.6	40.9
52.5°	7312.1	4966.5	378.7	226.1	136.2	100.8	70.8	51.8	40.9	32.7	30.0
55°	8440.0	5772.9	343.3	190.7	114.4	81.7	57.2	40.9	30.0	21.8	19.1
57.5°	9319.9	6470.3	313.3	158.0	92.6	65.4	43.6	30.0	21.8	13.6	10.9
60°	10281.6	6960.7	275.2	125.3	76.3	49.0	32.7	21.8	16.3	8.2	8.2
62.5°	11273.3	7535.5	226.1	98.1	59.9	38.1	24.5	16.3	10.9	2.7	2.7
65°	12651.8	7985.0	174.4	76.3	46.3	27.2	19.1	13.6	5.4	0.0	0.0
67.5°	13041.4	7764.3	128.0	59.9	32.7	19.1	13.6	8.2	2.7	0.0	0.0
69°	12651.8	6993.4	111.7	51.8	27.2	16.3	10.9	5.4	2.7	0.0	0.0
70°	11940.7	6394.0	98.1	43.6	24.5	16.3	8.2	5.4	2.7	0.0	0.0
72.5°	9987.4	4903.8	76.3	32.7	19.1	13.6	8.2	5.4	0.0	0.0	0.0
75°	7325.7	3029.5	57.2	24.5	16.3	10.9	8.2	5.4	0.0	0.0	0.0
77.5°	3925.8	1106.1	40.9	16.3	10.9	8.2	8.2	5.4	0.0	0.0	0.0
80°	1076.1	326.9	30.0	10.9	8.2	5.4	5.4	2.7	0.0	0.0	0.0
82.5°	294.2	84.5	19.1	10.9	8.2	5.4	2.7	0.0	0.0	0.0	0.0
85°	158.0	32.7	10.9	8.2	5.4	2.7	0.0	0.0	0.0	0.0	0.0
87.5°	81.7	10.9	8.2	5.4	5.4	2.7	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)