

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: P480636

Luminaire Tested: **IFLD-M-SA4D-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480636
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

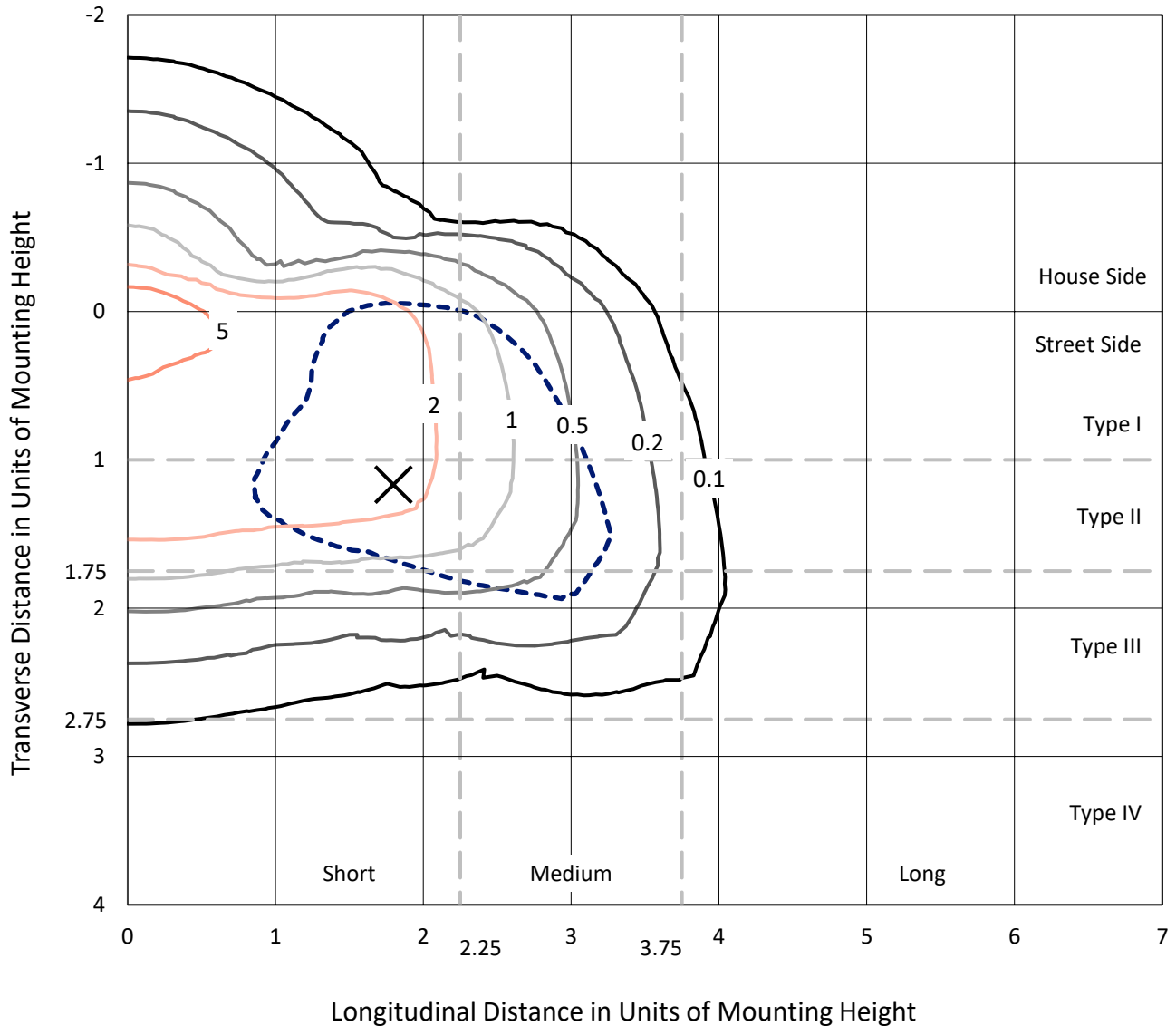
Lumens per Lamp: N/A
Luminaire Lumens: 22691.5 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

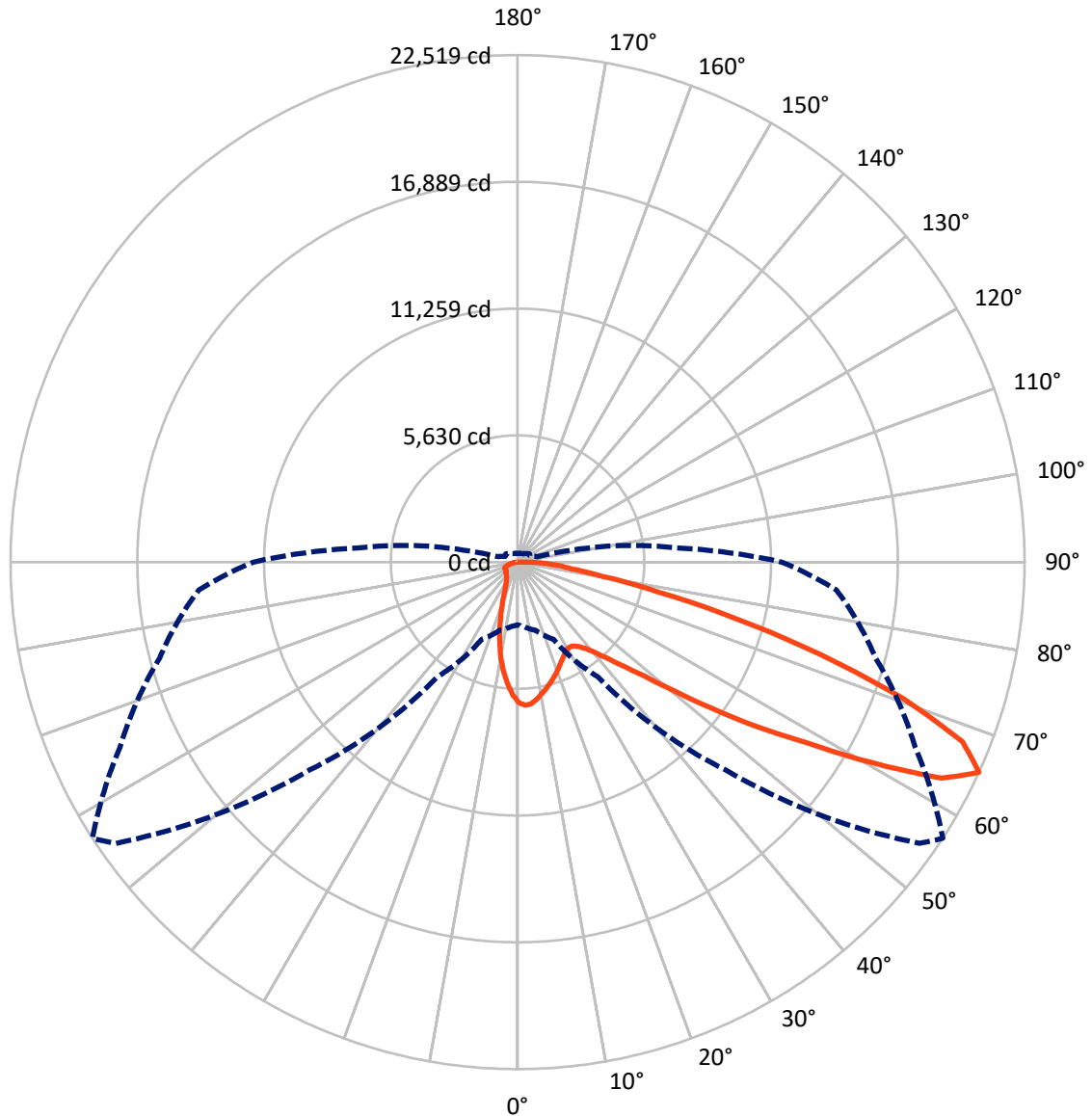
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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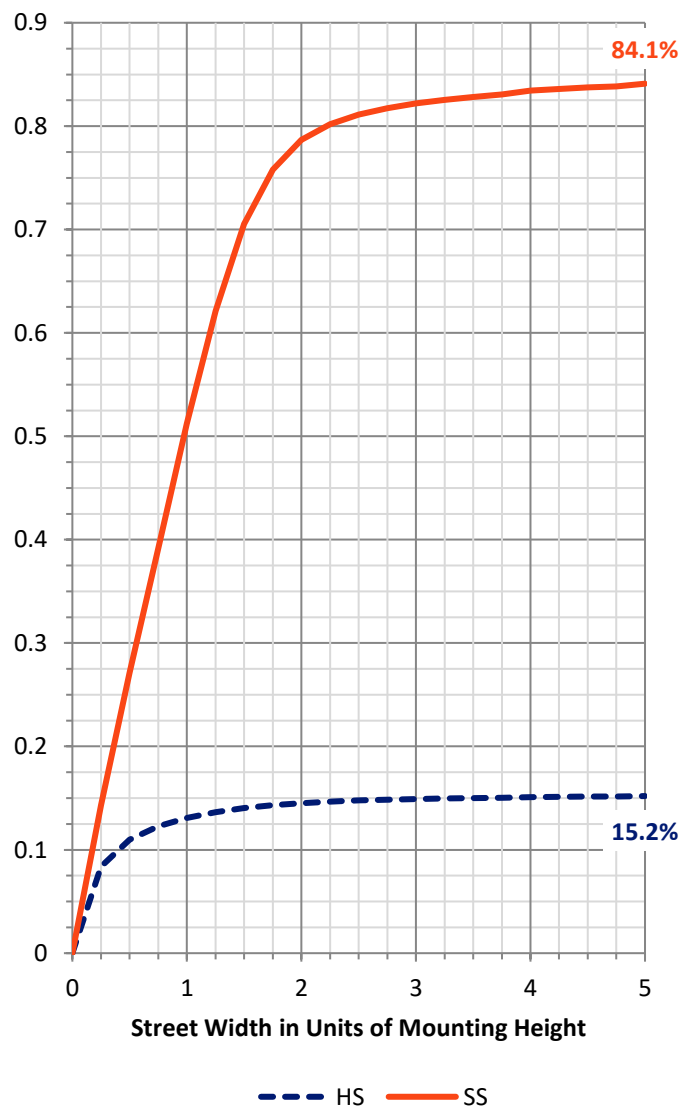
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3480.0	0.0	3480.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	19211.6	0.0	19211.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	22691.5	0.0	22691.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.5	2.3
10°-20°	1124.6	5.0
20°-30°	1454.0	6.4
30°-40°	1956.6	8.6
40°-50°	3119.9	13.7
50°-60°	5510.5	24.3
60°-70°	6062.2	26.7
70°-80°	2535.9	11.2
80°-90°	405.3	1.8
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°	22691.5	100.0
0°-180°	22691.5	100.0

Coefficient of Utilization



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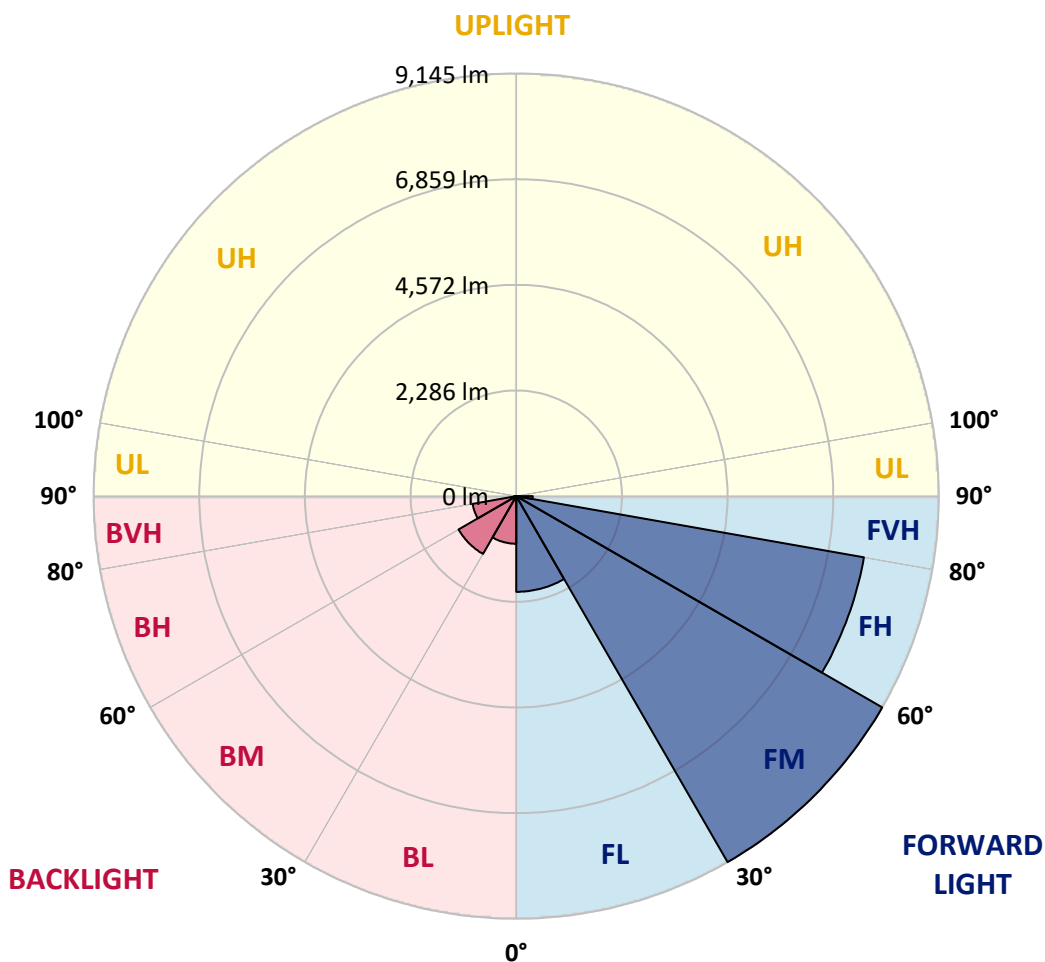
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.5	9.1			
FM (30°-60°)	9144.7	40.3			
FH (60°-80°)	7638.7	33.7			G4/12000
FVH (80°-90°)	357.7	1.6			G3/500
BL (0°-30°)	1030.6	4.5	B3/2500		
BM (30°-60°)	1442.3	6.4	B2/2500		
BH (60°-80°)	959.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	47.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9
2.5°	6408.4	6418.6	6418.6	6439.0	6370.1	6403.3	6398.1	6367.5	6377.7	6324.1	6270.5
5°	6227.1	6219.4	6260.3	6265.4	6319.0	6334.3	6347.1	6326.7	6331.8	6214.3	6163.3
7.5°	5762.4	5759.9	5828.8	5887.5	5999.9	6104.5	6173.5	6153.0	6181.1	6107.1	5987.1
10°	5210.9	5269.7	5341.2	5399.9	5606.7	5739.4	5918.2	5936.0	6043.3	6025.4	5808.4
12.5°	4797.3	4822.9	4876.5	5045.0	5233.9	5453.5	5708.8	5731.8	5836.5	5887.5	5698.6
15°	4457.8	4480.7	4549.7	4674.8	4886.7	5147.1	5471.4	5530.1	5739.4	5757.3	5555.6
17.5°	4210.1	4228.0	4273.9	4399.0	4572.7	4907.1	5213.5	5318.2	5593.9	5680.7	5407.5
20°	4113.1	4074.8	4100.3	4179.5	4353.1	4611.0	5006.7	5098.6	5450.9	5622.0	5267.1
22.5°	4069.7	4036.5	4051.8	4046.7	4184.6	4368.4	4784.6	4881.6	5315.6	5553.1	5142.0
25°	4102.9	4102.9	4087.6	4074.8	4090.1	4210.1	4544.6	4695.2	5134.3	5494.3	5014.4
27.5°	4281.6	4212.7	4220.3	4166.7	4151.4	4151.4	4437.3	4526.7	5075.6	5461.2	4909.7
30°	4396.5	4429.7	4432.2	4353.1	4273.9	4131.0	4337.8	4424.6	5027.1	5502.0	4848.4
32.5°	4690.1	4674.8	4631.4	4616.1	4498.6	4337.8	4386.3	4445.0	4999.0	5593.9	4866.3
35°	4983.7	4976.1	4978.6	4970.9	4848.4	4611.0	4516.5	4595.6	5050.1	5754.8	4927.5
37.5°	5287.5	5308.0	5394.8	5394.8	5264.6	5006.7	4881.6	4858.6	5236.5	6017.7	5073.1
40°	5591.4	5642.4	5752.2	5925.8	5742.0	5502.0	5300.3	5264.6	5461.2	6370.1	5422.9
42.5°	5882.4	5966.7	6183.7	6441.6	6380.3	6140.3	5872.2	5831.4	5923.3	6893.5	5910.5
45°	6255.2	6326.7	6668.8	7064.5	7148.8	6936.9	6622.8	6589.6	6584.5	7659.4	6582.0
47.5°	6822.0	6898.6	7240.7	7639.0	7899.4	7932.6	7580.3	7544.5	7422.0	8693.4	7564.9
50°	7531.7	7656.8	7945.3	8410.0	8787.9	9142.8	9043.2	8938.5	8698.5	9895.9	8810.9
52.5°	8050.0	8203.2	8593.8	9188.7	9855.1	10419.3	10776.8	10776.8	10225.3	11215.9	10309.5
55°	8187.9	8279.8	8772.6	9633.0	10774.2	12201.4	12949.5	12893.3	12043.1	12604.8	12053.3
57.5°	7639.0	7759.0	8356.4	9257.7	11256.8	13868.6	15106.9	15119.6	14029.5	14218.4	13774.1
60°	6127.5	6165.8	6870.5	8075.6	10792.1	15211.6	18053.2	18101.7	16289.0	15655.8	14649.9
62.5°	4235.6	4358.2	4889.2	5946.2	8941.1	15060.9	20894.8	21134.8	18099.2	16414.1	14787.7
65°	2788.0	2862.1	3145.5	3788.8	6224.5	13054.2	21778.2	22518.6	19483.0	16457.5	14210.7
67.5°	2022.1	2034.8	2119.1	2451.0	3740.3	9387.9	20269.3	21313.5	20001.2	16094.9	12857.6
70°	1634.0	1644.2	1674.9	1886.8	2415.3	5874.8	16531.5	18168.1	18446.4	14376.7	10355.5
72.5°	1327.6	1340.4	1378.7	1577.8	1991.4	3268.0	12089.1	14083.1	15004.8	10636.3	6883.2
75°	1044.2	1054.4	1146.4	1342.9	1871.4	2244.2	8019.4	9972.5	10097.6	6216.9	3222.1
77.5°	714.9	732.7	845.1	1138.7	1761.7	1963.4	4999.0	6387.9	5731.8	2433.1	1108.1
80°	454.5	480.0	546.4	863.0	1557.4	1874.0	3109.7	3814.4	2509.7	832.3	533.6
82.5°	268.1	293.6	360.0	559.1	1223.0	1738.7	2190.6	2387.2	1177.0	426.4	321.7
85°	148.1	166.0	217.0	337.0	717.4	1544.6	1754.0	1713.2	674.0	227.2	201.7
87.5°	48.5	56.2	79.1	135.3	296.2	727.6	1051.9	988.1	349.8	104.7	79.1
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°	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9	6239.9
2.5°	6234.7	6227.1	6112.2	6025.4	5877.3	5754.8	5706.3	5639.9	5637.3	5588.8	5576.0
5°	6084.1	6005.0	5828.8	5660.3	5397.3	5221.2	5060.3	4948.0	4902.0	4802.4	4779.5
7.5°	5890.1	5785.4	5514.8	5198.2	4889.2	4613.5	4363.3	4113.1	3972.7	3924.2	3870.5
10°	5688.4	5504.6	5103.7	4748.8	4317.3	3893.5	3500.3	3148.0	2956.5	2821.2	2762.5
12.5°	5527.5	5282.4	4771.8	4240.8	3671.4	3104.6	2647.6	2277.4	2060.4	1958.3	1912.3
15°	5346.3	5022.0	4409.3	3737.8	3028.0	2384.6	1937.8	1646.8	1560.0	1511.5	1503.8
17.5°	5154.8	4779.5	4016.1	3242.5	2399.9	1794.9	1506.3	1388.9	1350.6	1330.2	1320.0
20°	4976.1	4562.4	3612.7	2691.0	1879.1	1440.0	1304.7	1243.4	1240.8	1251.0	1248.5
22.5°	4723.3	4279.0	3214.4	2180.4	1501.2	1253.6	1166.8	1151.5	1166.8	1179.5	1184.7
25°	4580.3	4046.7	2770.1	1731.0	1240.8	1113.2	1085.1	1080.0	1103.0	1118.3	1115.7
27.5°	4432.2	3806.7	2356.5	1386.4	1087.6	1013.6	1008.5	1013.6	1036.6	1059.5	1057.0
30°	4317.3	3615.2	1968.5	1159.1	970.2	942.1	937.0	942.1	954.9	957.4	957.4
32.5°	4222.9	3388.0	1639.1	1005.9	898.7	875.7	880.8	878.3	880.8	883.4	885.9
35°	4166.7	3252.7	1368.5	911.5	840.0	822.1	819.6	811.9	814.4	817.0	814.4
37.5°	4286.7	3186.3	1154.0	845.1	799.1	783.8	778.7	773.6	765.9	765.9	765.9
40°	4468.0	3150.6	1023.8	801.7	768.5	750.6	735.3	730.2	730.2	732.7	735.3
42.5°	4828.0	3209.3	934.4	768.5	730.2	709.8	694.5	697.0	704.7	712.3	707.2
45°	5348.8	3388.0	893.6	743.0	707.2	679.1	668.9	666.4	674.0	686.8	697.0
47.5°	6030.5	3666.3	878.3	720.0	691.9	653.6	640.8	648.5	658.7	676.6	668.9
50°	7146.2	4291.8	891.0	699.6	668.9	640.8	625.5	617.9	625.5	638.3	643.4
52.5°	8604.1	5428.0	939.6	689.3	653.6	630.6	605.1	592.3	600.0	610.2	610.2
55°	10347.8	6980.3	1074.9	676.6	628.1	615.3	587.2	561.7	566.8	566.8	564.2
57.5°	11884.8	8152.2	1235.7	658.7	612.8	594.9	559.1	528.5	523.4	525.9	528.5
60°	12574.2	8463.6	1312.3	653.6	612.8	569.3	520.8	490.2	482.5	477.4	477.4
62.5°	12454.2	7924.9	1156.6	630.6	628.1	548.9	485.1	451.9	441.7	431.5	434.0
65°	11729.1	7156.4	911.5	600.0	630.6	536.2	449.4	416.2	398.3	385.5	383.0
67.5°	10404.0	6109.6	722.5	577.0	605.1	513.2	418.7	380.4	365.1	352.3	347.2
70°	8139.4	4789.7	628.1	546.4	543.8	457.0	383.0	349.8	326.8	311.5	311.5
72.5°	5277.3	3028.0	538.7	485.1	469.8	383.0	331.9	311.5	293.6	280.8	280.8
75°	2389.7	1406.8	434.0	405.9	383.0	306.4	280.8	270.6	255.3	242.5	242.5
77.5°	857.9	600.0	324.2	319.1	286.0	237.4	227.2	219.6	209.4	196.6	196.6
80°	480.0	380.4	242.5	232.3	199.1	176.2	163.4	163.4	158.3	150.6	148.1
82.5°	303.8	247.7	178.7	155.7	130.2	117.4	112.3	109.8	107.2	97.0	94.5
85°	191.5	168.5	117.4	91.9	76.6	58.7	56.2	53.6	48.5	43.4	43.4
87.5°	86.8	97.0	46.0	28.1	20.4	12.8	7.7	2.6	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)