

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: P480050

Luminaire Tested: **IFLD-M-SA4C-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480050
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

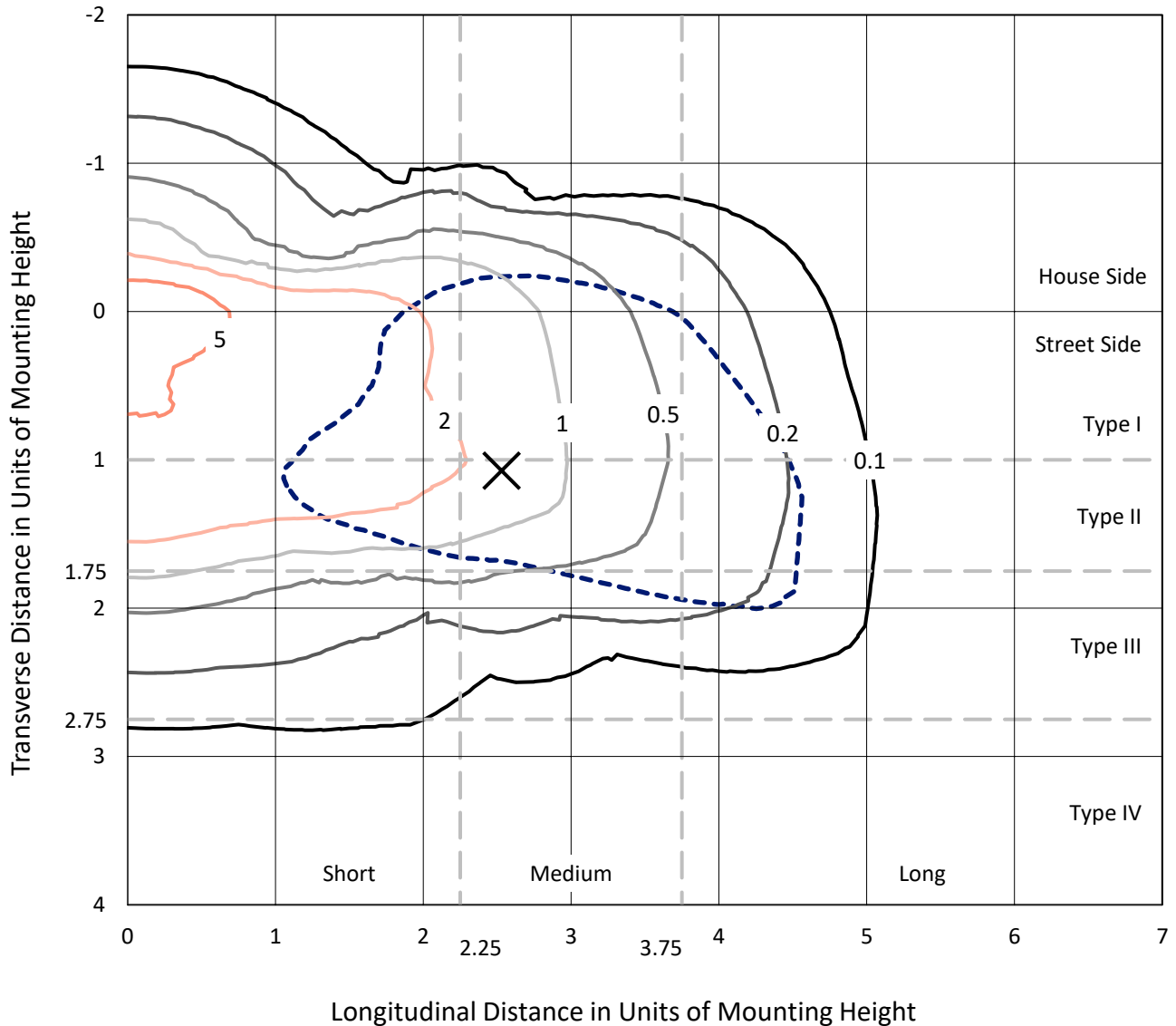
Lumens per Lamp: N/A
Luminaire Lumens: 25813.7 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

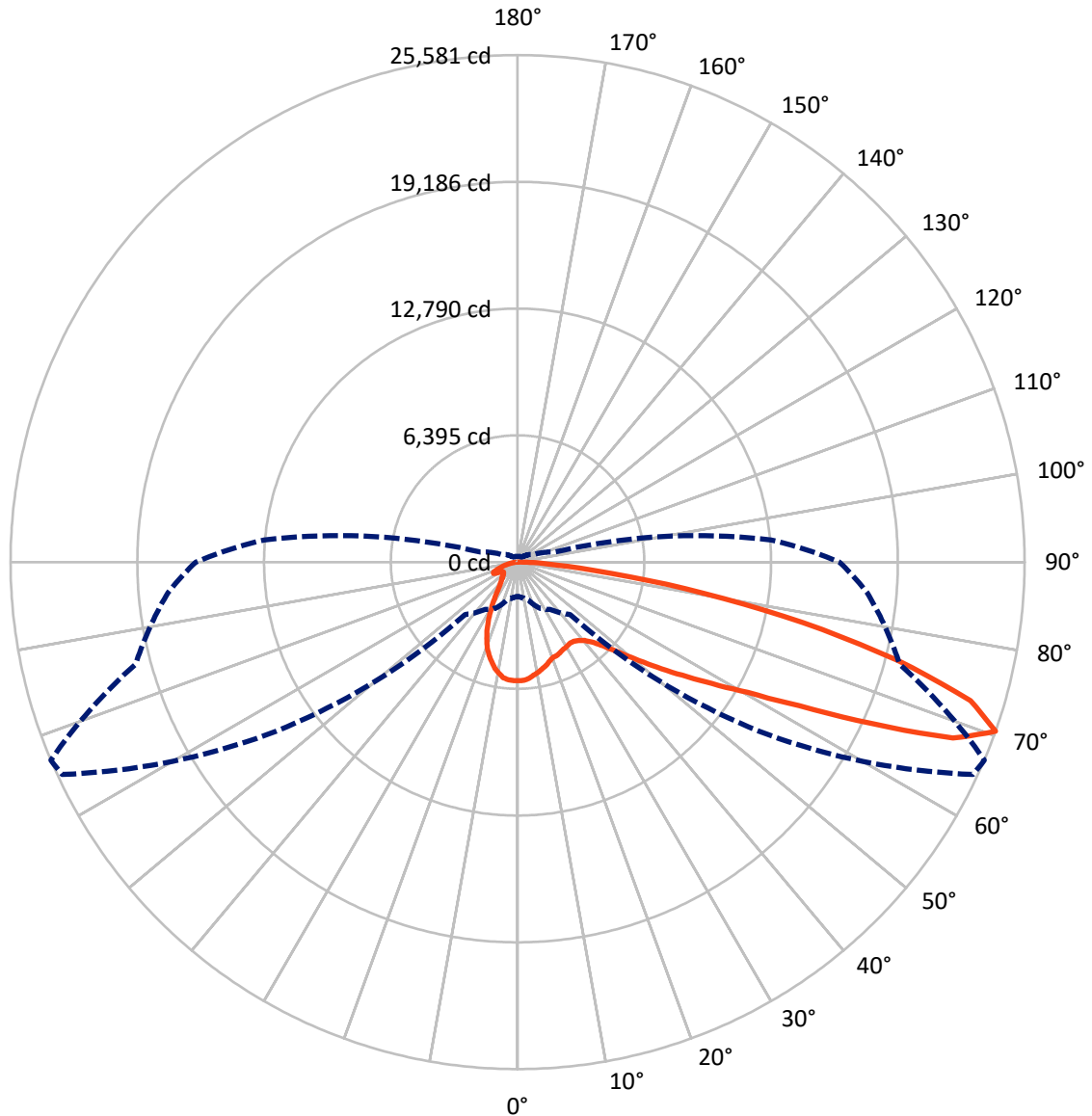
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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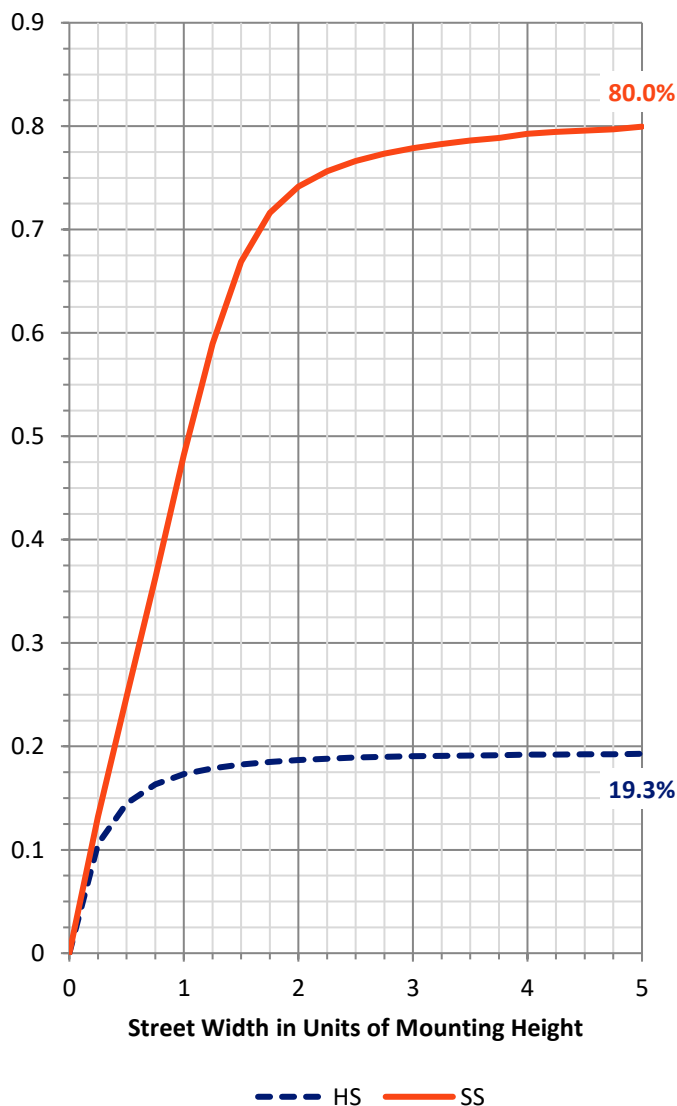
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5027.5	0.0	5027.5
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	20786.3	0.0	20786.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	25813.7	0.0	25813.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.4	2.0
10°-20°	1248.7	4.8
20°-30°	1686.3	6.5
30°-40°	2256.5	8.7
40°-50°	3318.1	12.9
50°-60°	5172.0	20.0
60°-70°	6371.1	24.7
70°-80°	4501.8	17.4
80°-90°	737.9	2.9
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°	25813.7	100.0
0°-180°	25813.7	100.0

Coefficient of Utilization



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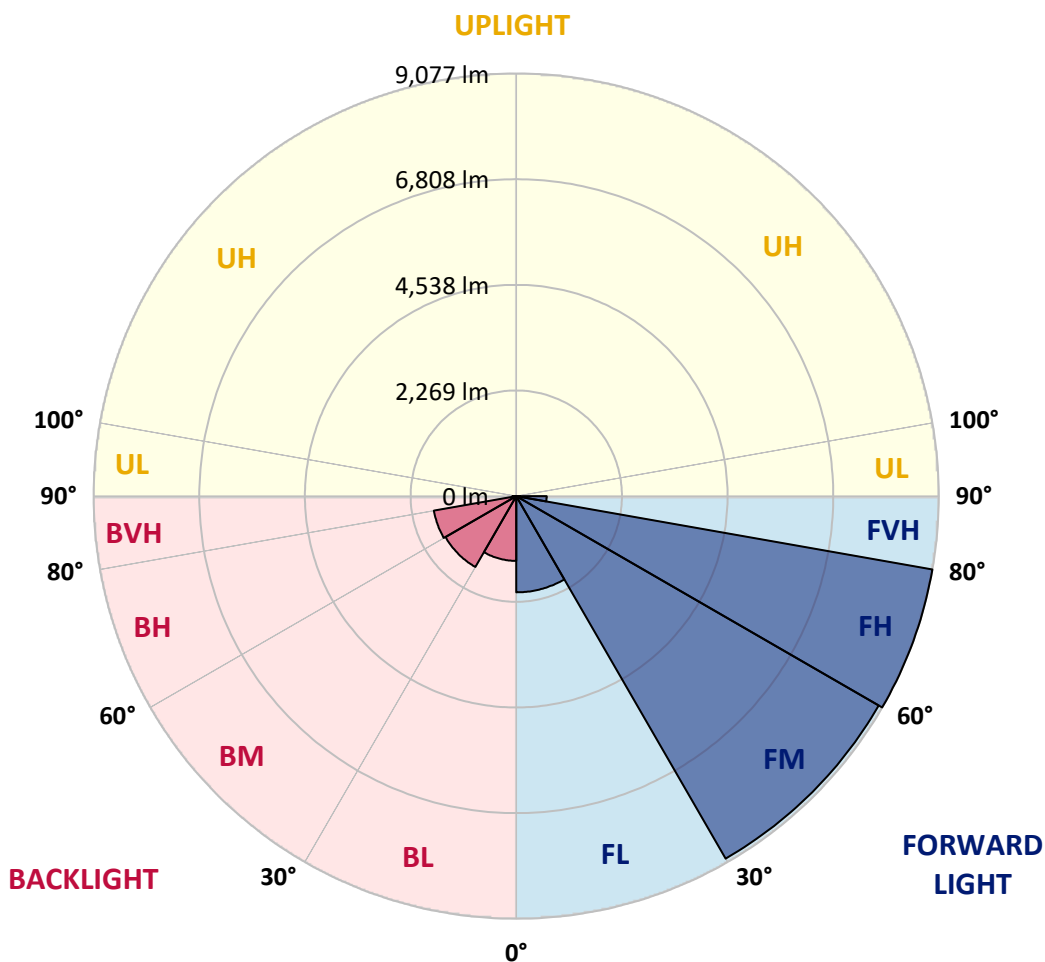
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2066.2	8.0			
FM (30°-60°)	8990.4	34.8			
FH (60°-80°)	9077.0	35.2			G4/12000
FVH (80°-90°)	652.7	2.5			G4/750
BL (0°-30°)	1390.3	5.4	B3/2500		
BM (30°-60°)	1756.2	6.8	B2/2500		
BH (60°-80°)	1795.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	85.1	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8
2.5°	5564.3	5627.1	5650.0	5684.3	5772.9	5838.6	5878.6	5924.4	5978.7	6024.4	6053.0
5°	5175.6	5209.9	5264.2	5301.3	5412.8	5590.0	5710.0	5904.3	5898.6	5970.1	6078.7
7.5°	4798.4	4832.6	4858.4	4932.7	5092.7	5252.8	5472.8	5787.2	5764.3	5930.1	6098.7
10°	4564.0	4538.3	4546.9	4672.6	4798.4	4978.4	5255.6	5575.7	5658.6	5915.8	6155.8
12.5°	4344.0	4315.4	4384.0	4464.0	4618.3	4781.2	5112.7	5401.4	5527.1	5864.3	6181.6
15°	4206.8	4186.8	4272.5	4306.8	4489.7	4684.0	4918.4	5269.9	5407.1	5801.5	6141.5
17.5°	4129.6	4146.8	4178.2	4252.5	4369.7	4535.4	4792.6	5181.3	5241.3	5724.3	6133.0
20°	4143.9	4163.9	4166.8	4198.2	4278.2	4406.8	4669.7	5087.0	5127.0	5710.0	6155.8
22.5°	4258.2	4229.6	4241.1	4221.1	4243.9	4344.0	4575.4	4961.3	5115.6	5590.0	6107.3
25°	4429.7	4389.7	4384.0	4315.4	4272.5	4301.1	4558.3	4929.8	5029.8	5552.8	6104.4
27.5°	4732.6	4672.6	4672.6	4569.7	4395.4	4349.7	4509.7	4878.4	4967.0	5518.5	6038.7
30°	5024.1	5024.1	5027.0	4881.2	4686.9	4461.1	4529.7	4858.4	4915.5	5415.7	5950.1
32.5°	5378.5	5369.9	5355.6	5284.2	4984.1	4646.9	4626.9	4832.6	4861.2	5381.4	5924.4
35°	5724.3	5701.4	5812.9	5750.0	5444.2	5009.8	4726.9	4844.1	4907.0	5329.9	5844.3
37.5°	5984.4	5998.7	6230.1	6270.2	6007.2	5421.4	5009.8	4958.4	5018.4	5404.2	5844.3
40°	6321.6	6378.8	6596.0	6730.3	6570.2	5964.4	5458.5	5149.9	5192.7	5570.0	5970.1
42.5°	6764.6	6813.1	7090.4	7264.7	7219.0	6656.0	5901.5	5550.0	5515.7	5847.2	6158.7
45°	7350.4	7359.0	7639.1	7879.1	7973.4	7379.0	6604.5	6055.8	6027.2	6324.5	6504.5
47.5°	8047.7	8039.2	8213.5	8470.7	8725.1	8242.1	7413.3	6824.6	6721.7	7007.5	7078.9
50°	8722.2	8685.0	8725.1	9053.7	9542.4	9322.4	8396.4	7764.8	7661.9	7819.1	7942.0
52.5°	9093.7	9139.4	9030.9	9465.2	10411.2	10599.8	9699.6	8888.0	8799.4	8876.5	9090.9
55°	8833.7	8928.0	8856.5	9268.1	10791.3	12157.4	11385.7	10188.3	10074.0	10045.4	10396.9
57.5°	7727.7	7899.1	7913.4	8565.0	10659.8	13363.4	13757.8	11723.0	11551.5	11260.0	11622.9
60°	5932.9	6104.4	6235.9	7007.5	9533.8	14083.6	16507.0	13906.4	13340.5	12586.0	12803.2
62.5°	4158.2	4275.4	4406.8	4881.2	7350.4	13660.6	18884.8	16981.4	15938.3	13983.5	14255.0
65°	3029.3	3120.8	3255.1	3535.2	4515.4	11302.9	19987.9	20633.8	19645.0	15761.1	15726.8
67.5°	2280.6	2337.7	2514.9	2963.6	3129.4	6981.8	18844.8	24491.9	23691.7	17735.9	16910.0
70°	1726.1	1774.7	1940.5	2554.9	2923.6	3743.8	14866.6	25352.1	25580.7	19950.7	17704.5
72.5°	1188.9	1243.2	1428.9	2129.1	2783.6	2969.3	9330.9	23031.5	23897.5	20862.4	16852.8
75°	728.8	765.9	874.5	1614.7	2763.6	2903.6	5135.6	18873.3	19790.7	19276.3	14743.7
77.5°	514.4	511.6	531.6	946.0	2394.9	2920.7	3166.5	13829.2	14720.9	14206.4	10005.4
80°	374.4	377.2	397.2	565.9	1626.1	2969.3	2494.9	9262.3	9528.1	7407.6	3946.7
82.5°	225.8	237.2	285.8	383.0	977.4	2680.7	2306.3	5147.0	4815.5	2377.7	1086.0
85°	120.0	120.0	168.6	242.9	520.1	2000.5	2220.6	2449.2	2051.9	737.3	403.0
87.5°	28.6	28.6	48.6	97.2	208.6	957.4	1514.7	974.5	780.2	248.6	165.8
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°	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8	5975.8
2.5°	6041.5	6007.2	6050.1	5964.4	5895.8	5898.6	5792.9	5787.2	5772.9	5698.6	5724.3
5°	6110.1	6081.5	6033.0	5938.6	5787.2	5635.7	5544.3	5427.1	5378.5	5352.8	5364.2
7.5°	6175.8	6124.4	5984.4	5852.9	5618.6	5332.8	5167.0	5009.8	4809.8	4786.9	4746.9
10°	6193.0	6084.4	5904.3	5624.3	5312.8	4995.5	4618.3	4326.8	4172.5	4052.5	4006.7
12.5°	6167.3	6121.5	5775.7	5415.7	4944.1	4446.8	4006.7	3595.2	3309.4	3160.8	3120.8
15°	6164.4	6084.4	5632.9	5098.4	4495.4	3846.7	3220.8	2726.4	2426.3	2303.4	2303.4
17.5°	6167.3	5975.8	5464.2	4778.3	3966.7	3089.4	2400.6	1994.8	1829.0	1811.9	1826.2
20°	6110.1	5895.8	5287.0	4401.1	3303.7	2320.6	1743.3	1577.5	1577.5	1600.4	1609.0
22.5°	6058.7	5775.7	5007.0	3935.3	2629.2	1680.4	1417.5	1368.9	1423.2	1463.2	1480.4
25°	5987.2	5675.7	4721.2	3452.3	2000.5	1354.6	1231.7	1243.2	1294.6	1366.1	1360.3
27.5°	5884.3	5501.4	4381.1	2892.2	1488.9	1168.9	1137.4	1143.1	1197.4	1228.9	1223.2
30°	5767.2	5324.2	4066.7	2334.9	1180.3	1071.7	1068.8	1083.1	1091.7	1108.9	1106.0
32.5°	5618.6	5089.9	3732.4	1814.7	1063.1	1017.4	1006.0	997.4	1006.0	1003.1	994.5
35°	5512.8	4964.1	3392.3	1383.2	997.4	968.8	960.2	946.0	934.5	917.4	914.5
37.5°	5484.2	4838.4	3035.1	1128.9	946.0	931.7	903.1	877.4	863.1	854.5	848.8
40°	5467.1	4755.5	2686.4	991.7	903.1	888.8	854.5	820.2	805.9	797.3	800.2
42.5°	5527.1	4709.8	2332.0	923.1	865.9	840.2	803.1	763.0	760.2	754.5	763.0
45°	5738.6	4766.9	2003.4	874.5	828.8	785.9	737.3	717.3	714.5	708.8	714.5
47.5°	6218.7	4909.8	1723.3	843.1	788.8	751.6	700.2	671.6	668.7	665.9	665.9
50°	6881.7	5349.9	1488.9	805.9	763.0	711.6	663.0	631.6	625.9	614.4	614.4
52.5°	7922.0	6090.1	1348.9	785.9	717.3	674.5	623.0	588.7	574.4	563.0	563.0
55°	9093.7	7007.5	1323.2	751.6	668.7	628.7	583.0	548.7	534.4	520.1	514.4
57.5°	10428.3	8222.1	1506.1	728.8	634.4	583.0	531.6	500.1	488.7	474.4	468.7
60°	11671.5	9433.8	2074.8	694.5	603.0	540.1	488.7	457.3	443.0	428.7	428.7
62.5°	13109.0	10934.2	3037.9	694.5	574.4	494.4	443.0	420.1	411.5	397.2	394.4
65°	14809.5	12486.0	3740.9	737.3	565.9	454.4	400.1	377.2	368.7	360.1	357.2
67.5°	16104.1	13377.7	3218.0	851.6	603.0	420.1	357.2	342.9	337.2	328.7	322.9
70°	16241.2	12834.7	1940.5	920.2	640.2	385.8	320.1	305.8	305.8	297.2	291.5
72.5°	15009.5	11388.6	1306.0	820.2	580.1	345.8	282.9	271.5	265.8	260.1	257.2
75°	12560.3	9659.6	1031.7	654.5	445.8	285.8	245.8	234.3	225.8	222.9	217.2
77.5°	8436.4	6278.7	763.0	511.6	328.7	231.5	205.8	194.3	185.8	182.9	174.3
80°	3240.8	2392.0	491.6	371.5	231.5	182.9	162.9	151.5	145.8	137.2	131.5
82.5°	954.5	774.5	274.4	228.6	148.6	125.7	117.2	108.6	100.0	91.5	88.6
85°	394.4	354.4	168.6	120.0	91.5	74.3	68.6	60.0	51.4	45.7	40.0
87.5°	182.9	151.5	77.2	45.7	31.4	17.1	8.6	2.9	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)