

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: P478734

Luminaire Tested: **IFLD-L-SA8C-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478734
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

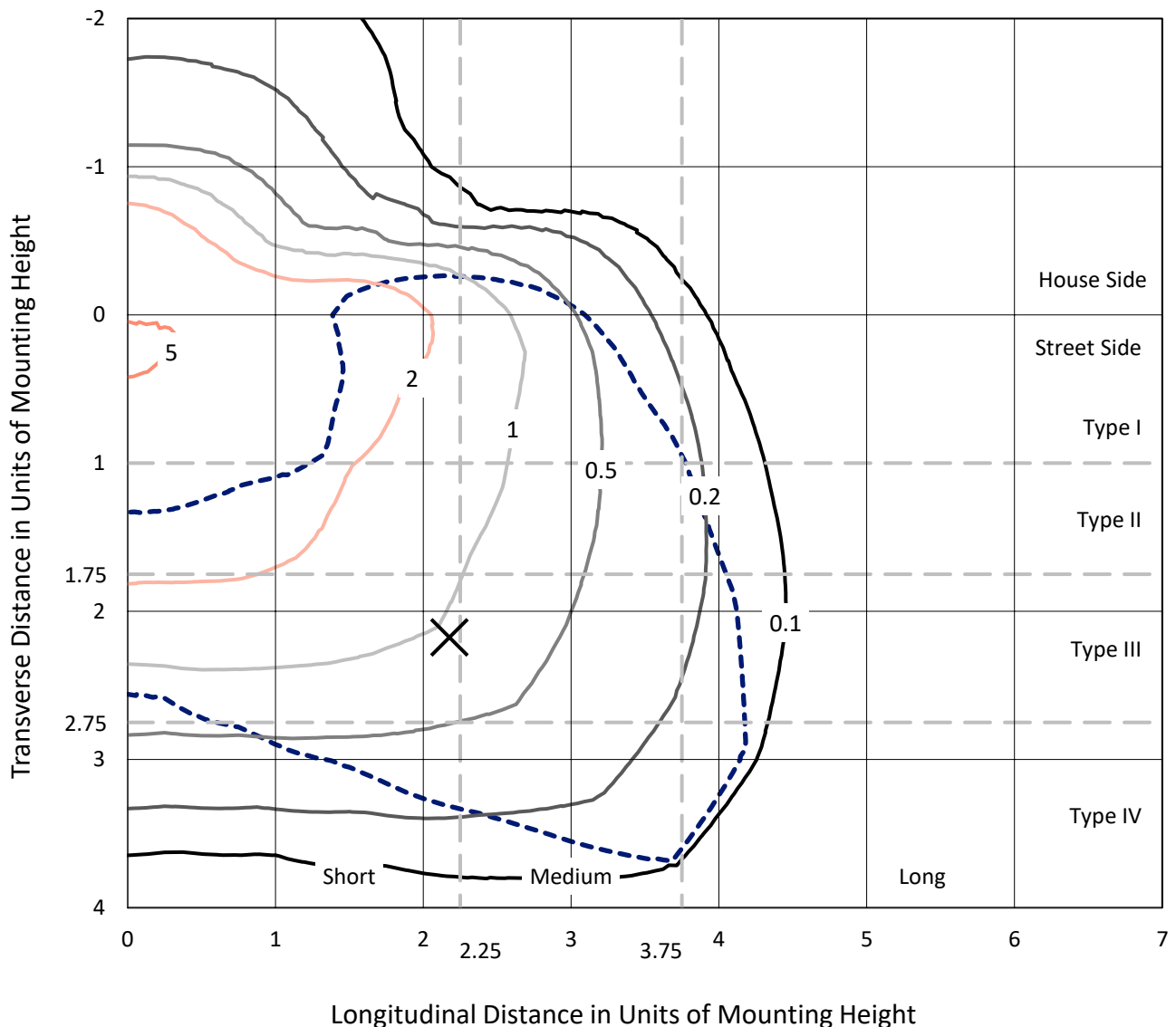
Lumens per Lamp: N/A
Luminaire Lumens: 40691.6 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 420.3
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

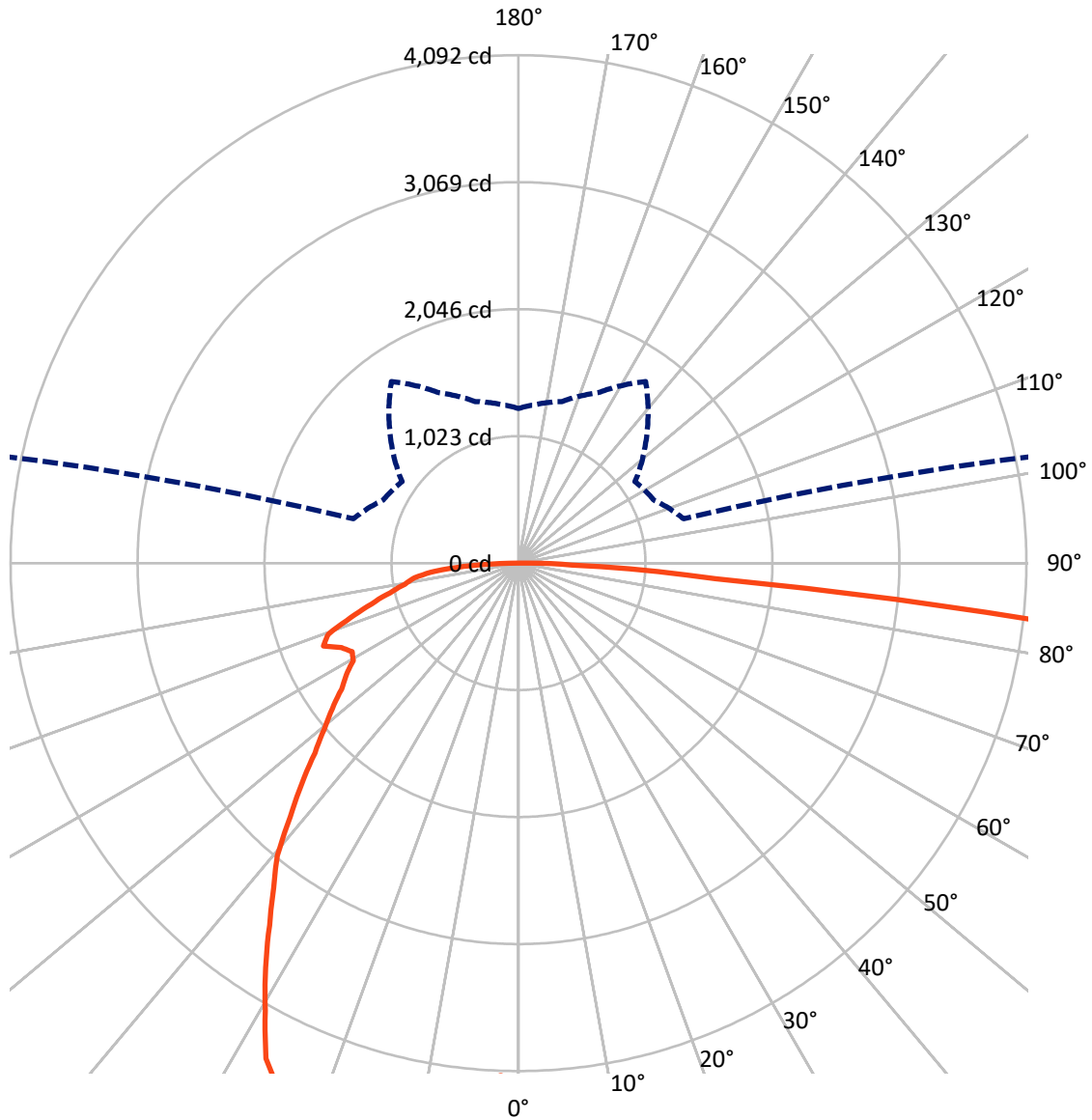
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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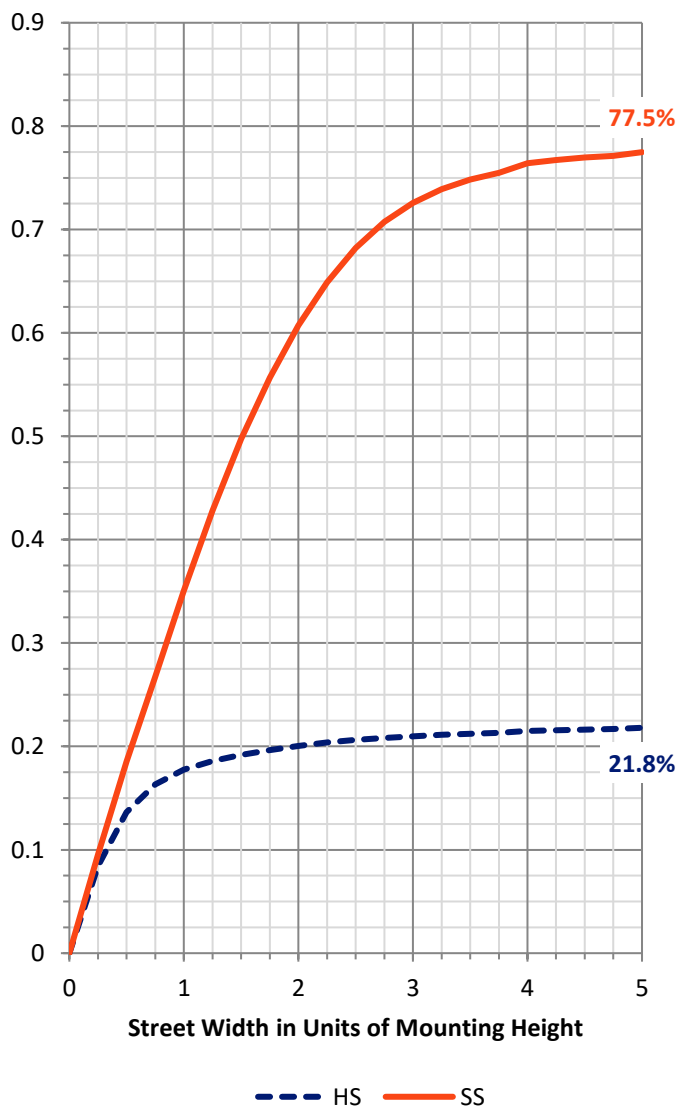
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9058.2	0.0	9058.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	31633.4	0.0	31633.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	40691.6	0.0	40691.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.8	1.1
10°-20°	1426.7	3.5
20°-30°	2409.2	5.9
30°-40°	3334.0	8.2
40°-50°	4768.9	11.7
50°-60°	7691.8	18.9
60°-70°	11344.2	27.9
70°-80°	8237.9	20.2
80°-90°	1050.1	2.6
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°	40691.6	100.0
0°-180°	40691.6	100.0

Coefficient of Utilization



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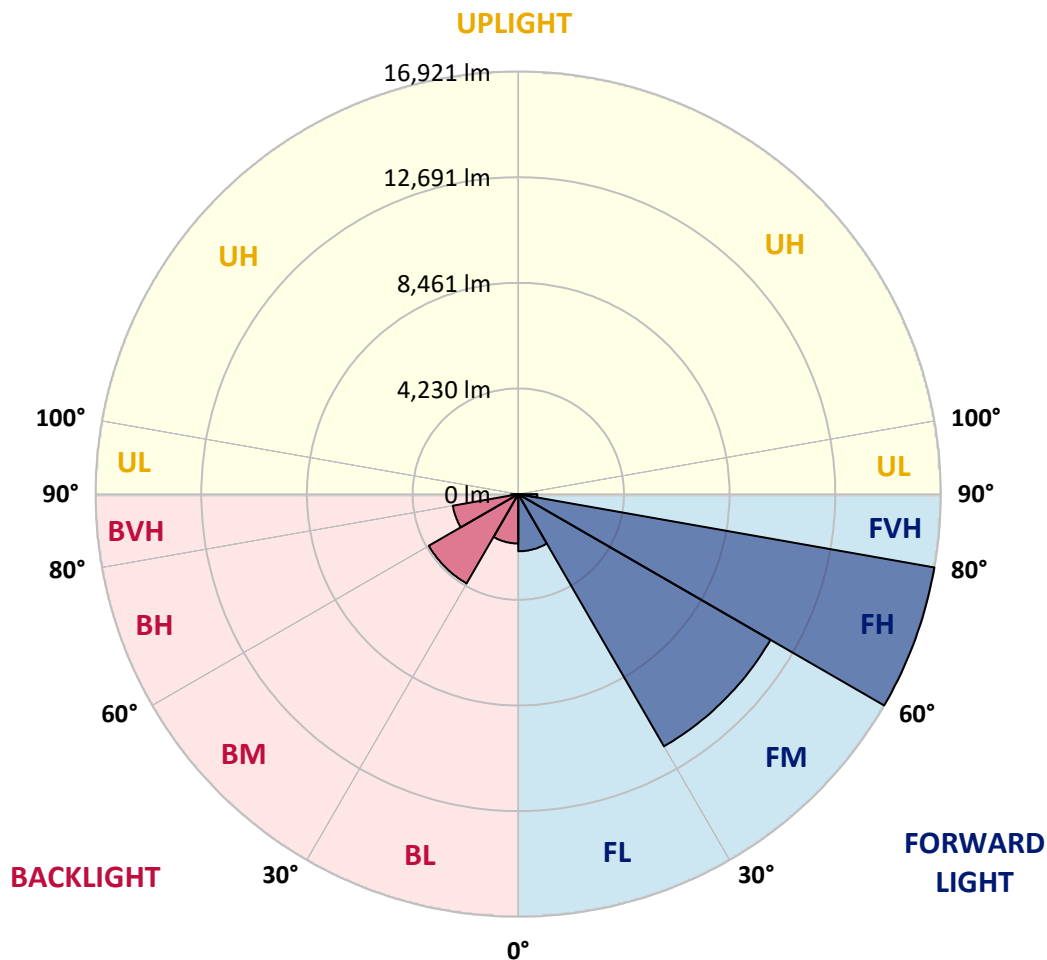
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2286.9	5.6			
FM (30°-60°)	11660.8	28.7			
FH (60°-80°)	16921.4	41.6			G5
FVH (80°-90°)	764.3	1.9			G5
BL (0°-30°)	1977.8	4.9	B3/2500		
BM (30°-60°)	4133.9	10.2	B3/5000		
BH (60°-80°)	2660.7	6.5	B4/5000		G4/5000
BVH (80°-90°)	285.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5
2.5°	4414.3	4440.6	4414.3	4409.9	4366.0	4335.3	4361.6	4322.1	4278.3	4260.7	4221.2
5°	4818.0	4822.4	4774.1	4778.5	4686.3	4589.8	4607.3	4488.9	4361.6	4313.4	4234.4
7.5°	5230.4	5182.2	5112.0	5090.0	4945.2	4839.9	4826.7	4721.4	4524.0	4414.3	4304.6
10°	5498.1	5515.7	5401.6	5305.0	5182.2	5054.9	5050.5	4853.1	4739.0	4576.6	4436.2
12.5°	5735.1	5739.4	5642.9	5489.3	5335.7	5177.8	5199.7	5112.0	4918.9	4765.3	4624.9
15°	5919.3	5893.0	5787.7	5647.3	5484.9	5362.1	5348.9	5274.3	5112.0	4984.7	4752.2
17.5°	5972.0	5958.8	5853.5	5704.3	5546.4	5454.2	5489.3	5366.5	5300.6	5186.6	4962.8
20°	5871.1	5840.4	5822.8	5656.1	5542.0	5533.2	5502.5	5528.8	5419.1	5313.8	5151.5
22.5°	5686.8	5673.6	5664.8	5533.2	5480.6	5520.0	5572.7	5612.2	5594.6	5493.7	5309.4
25°	5498.1	5559.5	5502.5	5441.1	5515.7	5616.6	5603.4	5730.7	5730.7	5699.9	5546.4
27.5°	5629.7	5590.3	5546.4	5515.7	5542.0	5699.9	5691.2	5844.8	5901.8	5844.8	5669.2
30°	5958.8	5919.3	5792.1	5656.1	5621.0	5792.1	5836.0	5972.0	5998.3	5857.9	5708.7
32.5°	6577.5	6555.6	6353.8	5954.5	5739.4	5836.0	5857.9	6011.5	5989.6	5901.8	5840.4
35°	7494.6	7420.0	7139.2	6463.5	5989.6	5893.0	5836.0	5958.8	6042.2	5998.3	5941.3
37.5°	8499.5	8416.1	8069.4	7213.8	6441.5	6046.6	6002.7	6103.6	6200.2	6178.2	6059.8
40°	9460.4	9460.4	9148.9	8152.8	7112.9	6419.6	6428.3	6314.3	6402.0	6362.5	6384.5
42.5°	10408.2	10373.1	10245.9	9254.2	7832.5	7042.7	6902.2	6617.0	6775.0	6761.8	6792.5
45°	11369.2	11342.9	11307.8	10281.0	8863.7	7885.1	7810.6	7297.2	7442.0	7380.5	7512.2
47.5°	12137.1	12167.8	12167.8	11426.2	9965.0	9008.5	8898.8	8087.0	8363.4	8394.2	8424.9
50°	12790.9	12804.0	12790.9	12518.8	11193.7	10294.1	10070.3	9245.4	9521.9	9763.2	10044.0
52.5°	13694.8	13712.4	13650.9	13545.6	12861.1	11645.6	11395.5	10478.4	11044.5	11299.0	11803.6
55°	14809.3	14677.7	14563.6	14642.6	14462.7	13133.1	12874.3	11750.9	12602.2	12940.1	13949.3
57.5°	15015.6	15129.7	15419.3	16046.7	16305.6	14581.2	14432.0	13313.0	14361.8	14655.8	16340.7
60°	15744.0	15555.3	16266.1	17626.4	17916.0	16468.0	16314.4	15024.3	16112.6	16419.7	18547.9
62.5°	16222.3	16213.5	17266.6	18881.4	19539.6	18425.0	18113.5	17249.0	18003.8	18302.1	20952.5
65°	16081.8	16209.1	18078.4	19618.5	20895.4	20649.7	20469.8	19162.2	20158.3	20131.9	22519.0
67.5°	14800.6	15160.4	17565.0	20149.5	22913.9	23361.5	23304.4	21852.0	21909.0	21351.8	23216.7
70°	13023.4	12900.6	15392.9	19596.6	23923.1	26577.8	26564.7	23852.9	23484.3	21619.4	21215.7
72°	10004.5	9868.5	11917.7	16827.8	23392.2	27863.5	28258.4	25239.5	23466.8	20509.3	17525.5
72.5°	9083.1	8964.6	11005.0	15840.5	22804.2	28197.0	28012.7	25292.2	23282.5	19987.1	16371.4
75°	4181.7	4045.7	5498.1	9697.4	17788.8	24985.0	25612.5	23668.6	20333.8	15910.7	9807.1
77.5°	1246.2	1206.7	1768.3	3914.1	10338.0	18407.5	18648.8	17859.0	14195.0	8714.5	3637.6
80°	693.3	697.7	912.7	1465.6	4545.9	10640.8	11509.6	11031.3	6963.7	2878.5	1211.1
82.5°	386.1	408.1	570.4	868.8	2088.7	4883.8	5256.8	5068.1	2518.7	1351.5	662.6
85°	201.8	210.6	298.4	465.1	1184.7	1544.6	1588.4	1702.5	1307.6	921.5	355.4
87.5°	79.0	79.0	109.7	193.1	438.8	478.3	430.0	522.2	750.3	596.8	175.5
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°	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5	4190.5
2.5°	4256.3	4221.2	4216.8	4159.8	4177.3	4129.1	4133.5	4124.7	4129.1	4120.3	4098.3
5°	4234.4	4208.0	4133.5	4181.7	4137.8	4199.3	4247.5	4230.0	4243.1	4238.8	4243.1
7.5°	4265.1	4230.0	4221.2	4194.9	4234.4	4260.7	4300.2	4409.9	4401.1	4414.3	4440.6
10°	4357.2	4317.7	4291.4	4330.9	4309.0	4392.3	4436.2	4493.3	4594.2	4598.6	4545.9
12.5°	4537.1	4510.8	4458.2	4466.9	4541.5	4567.9	4594.2	4629.3	4695.1	4681.9	4730.2
15°	4743.4	4686.3	4655.6	4646.8	4664.4	4695.1	4690.7	4725.8	4760.9	4791.6	4778.5
17.5°	4892.6	4818.0	4826.7	4870.6	4866.2	4857.5	4800.4	4782.9	4800.4	4818.0	4809.2
20°	5046.1	5054.9	4989.1	4949.6	4932.1	4844.3	4800.4	4747.8	4695.1	4721.4	4760.9
22.5°	5239.2	5199.7	5103.2	4984.7	4897.0	4844.3	4708.3	4616.1	4616.1	4642.5	4629.3
25°	5458.6	5375.2	5208.5	4993.5	4883.8	4660.0	4563.5	4550.3	4515.2	4554.7	4572.2
27.5°	5629.7	5555.1	5327.0	4962.8	4660.0	4480.1	4423.1	4405.5	4462.5	4466.9	4537.1
30°	5699.9	5678.0	5344.5	4883.8	4431.8	4142.2	4107.1	4186.1	4247.5	4339.7	4344.1
32.5°	5792.1	5800.9	5370.9	4699.5	4133.5	3843.8	3791.2	3887.7	4063.2	4137.8	4194.9
35°	5945.7	5989.6	5348.9	4471.3	3817.5	3541.1	3532.3	3558.6	3729.8	3861.4	3936.0
37.5°	6213.3	6204.6	5344.5	4199.3	3567.4	3277.8	3207.6	3216.4	3330.5	3440.2	3427.0
40°	6573.2	6538.0	5331.4	3843.8	3242.7	3054.0	2935.5	2891.7	2882.9	2852.2	2860.9
42.5°	7064.6	6994.4	5327.0	3484.0	2948.7	2746.9	2663.5	2549.4	2466.0	2308.1	2316.8
45°	7749.1	7626.3	5212.9	3146.2	2659.1	2492.4	2365.1	2281.7	2101.8	1904.4	1904.4
47.5°	8806.6	8407.3	5217.3	2773.2	2378.3	2242.2	2154.5	2009.7	1816.6	1658.6	1641.1
50°	10364.3	9451.6	5068.1	2479.2	2150.1	2057.9	1965.8	1799.1	1614.8	1505.1	1518.2
52.5°	12374.0	11009.4	5063.7	2215.9	1970.2	1904.4	1803.4	1654.3	1518.2	1448.0	1421.7
55°	14769.8	13071.7	5221.7	2000.9	1785.9	1750.8	1706.9	1584.1	1452.4	1391.0	1386.6
57.5°	17222.7	15085.8	5476.2	1847.3	1627.9	1654.3	1623.5	1527.0	1421.7	1351.5	1342.7
60°	19403.5	16683.0	4962.8	1663.0	1487.5	1544.6	1588.4	1505.1	1448.0	1443.6	1412.9
62.5°	21049.0	17367.5	3773.6	1522.6	1412.9	1518.2	1636.7	1689.4	1663.0	1698.1	1702.5
65°	21650.2	16955.0	2597.7	1448.0	1355.9	1579.7	1842.9	1825.4	1671.8	1606.0	1641.1
67.5°	20807.7	15283.2	1926.3	1360.3	1316.4	1706.9	1961.4	1742.0	1509.5	1500.7	1474.4
70°	17894.1	12953.2	1570.9	1268.1	1250.6	1636.7	1908.8	1614.8	1421.7	1364.7	1338.3
72°	14256.5	10087.9	1377.8	1202.3	1145.3	1461.2	1785.9	1513.8	1347.1	1276.9	1246.2
72.5°	13014.7	9350.7	1351.5	1171.6	1123.3	1421.7	1724.5	1483.1	1329.5	1268.1	1219.9
75°	7139.2	4787.3	1189.1	1075.0	947.8	1228.6	1597.2	1391.0	1255.0	1167.2	1158.4
77.5°	2654.7	1856.1	1026.8	952.2	820.5	1061.9	1452.4	1320.8	1140.9	1031.2	1009.2
80°	1018.0	978.5	838.1	803.0	688.9	930.2	1338.3	1184.7	969.7	860.0	824.9
82.5°	618.7	570.4	636.3	627.5	526.6	846.9	1259.3	1110.2	860.0	697.7	675.7
85°	337.9	337.9	443.2	425.6	368.6	675.7	952.2	737.2	544.1	447.6	456.3
87.5°	149.2	175.5	236.9	223.8	201.8	381.8	465.1	390.5	272.1	184.3	197.5
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)