

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: P480092

Luminaire Tested: **IFLD-L-SA7A-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480092
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

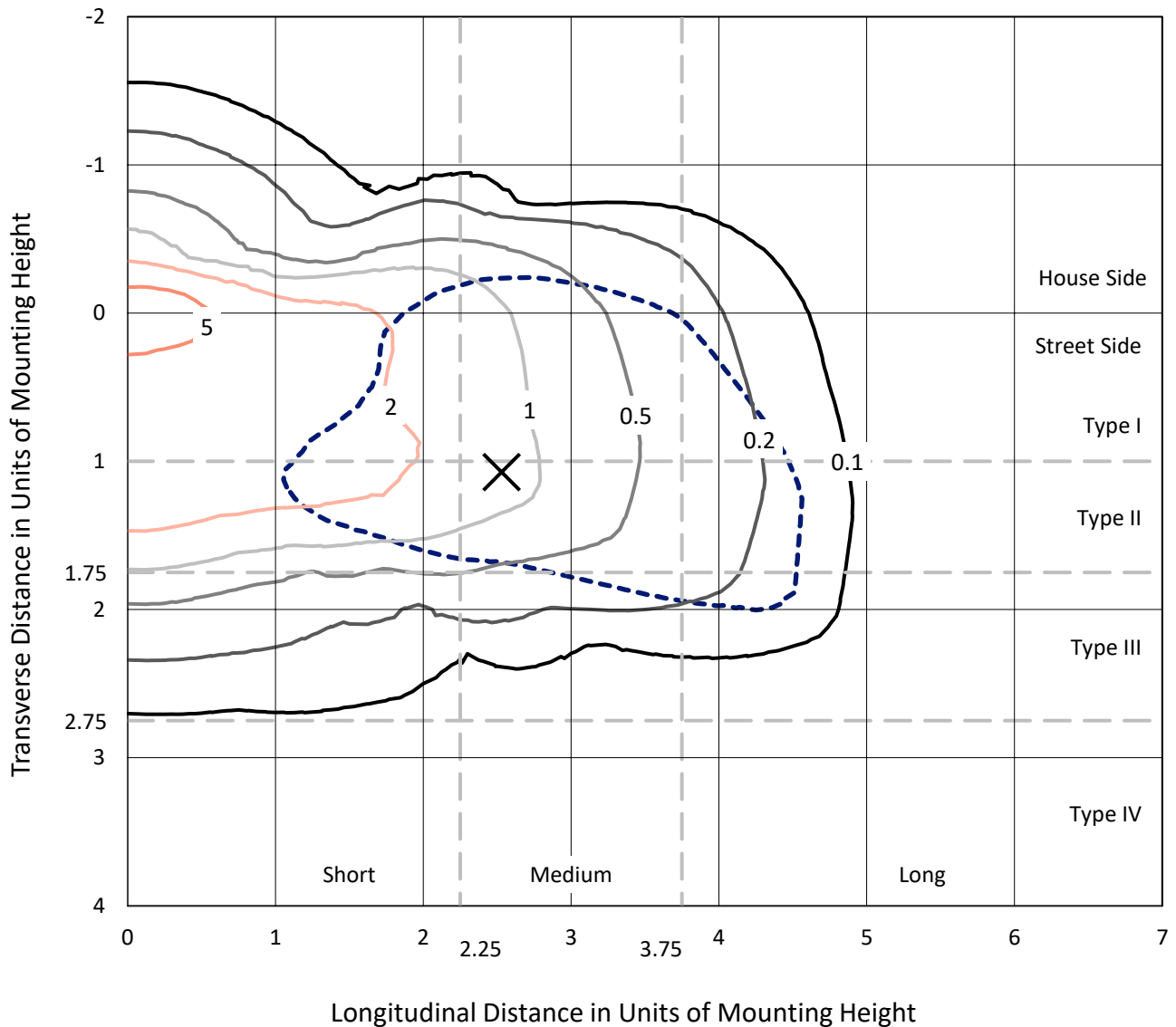
Lumens per Lamp: N/A
Luminaire Lumens: 30780.9 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6
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

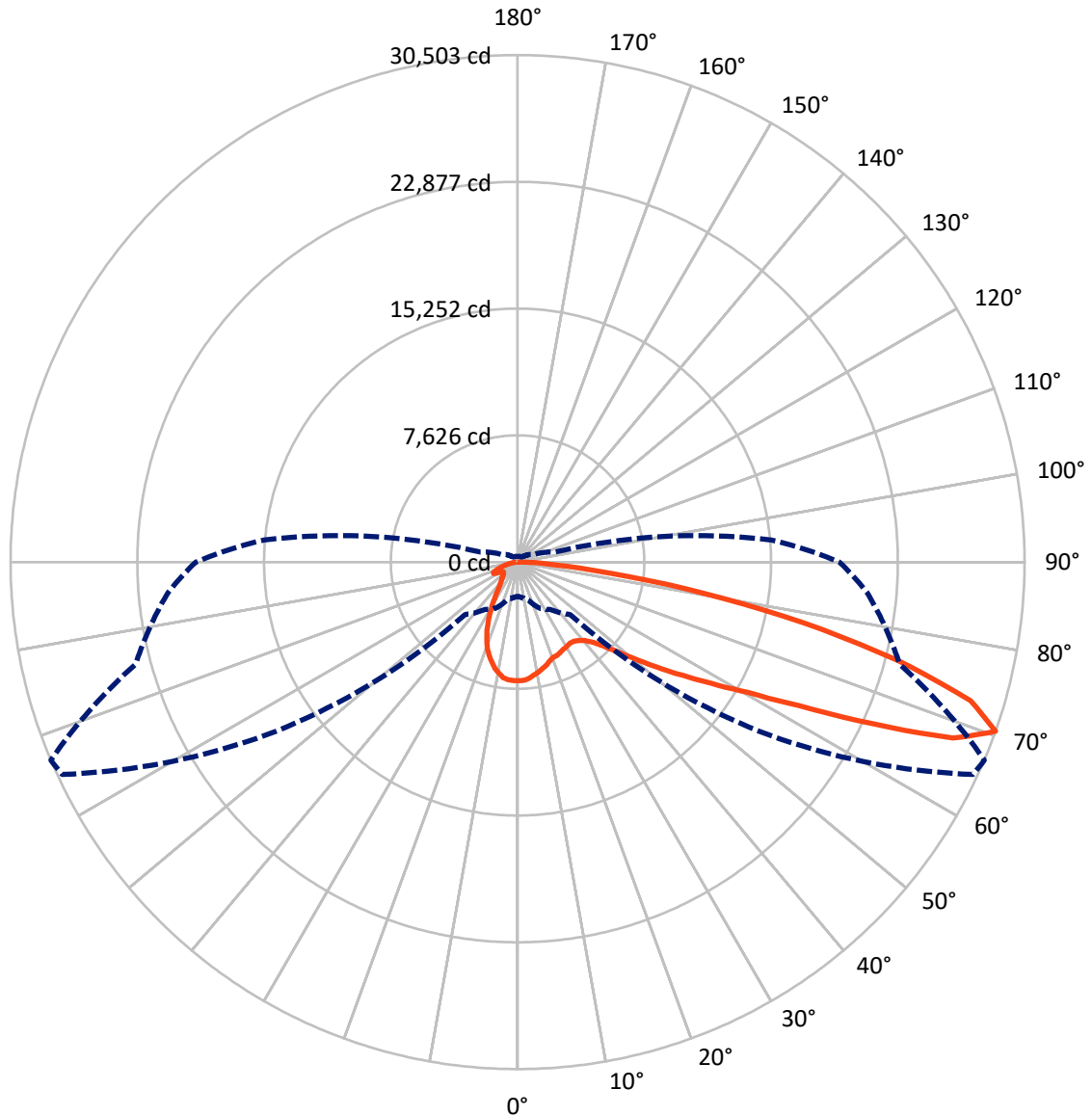
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 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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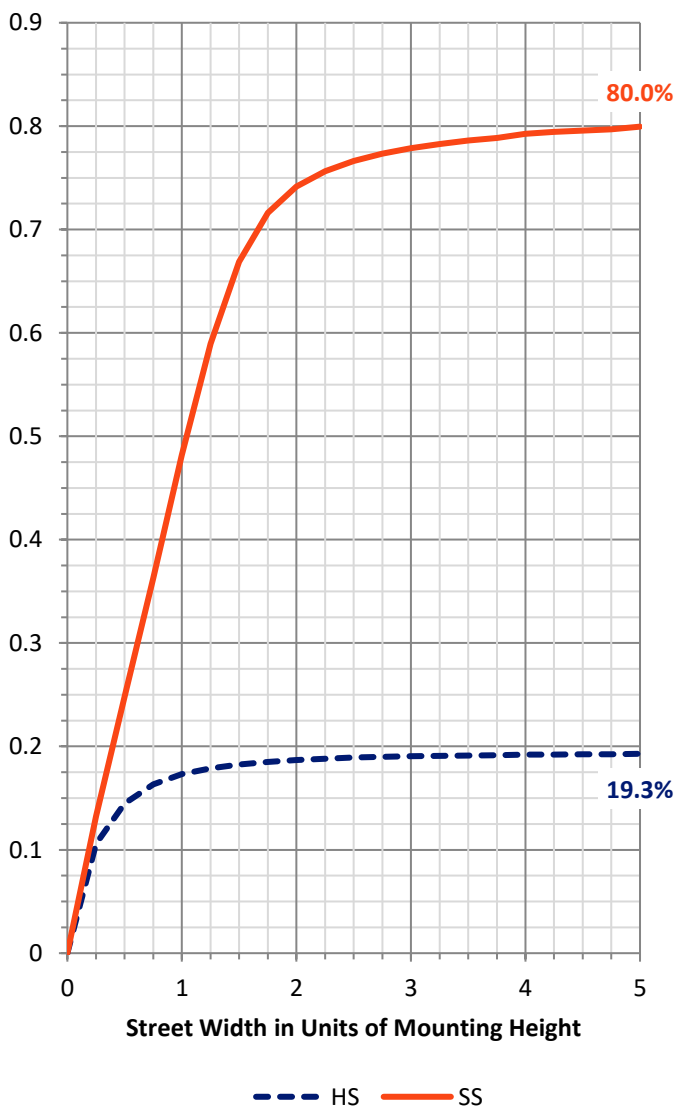
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5994.9	0.0	5994.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	24786.0	0.0	24786.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	30780.9	0.0	30780.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.7	2.0
10°-20°	1489.0	4.8
20°-30°	2010.8	6.5
30°-40°	2690.7	8.7
40°-50°	3956.5	12.9
50°-60°	6167.3	20.0
60°-70°	7597.0	24.7
70°-80°	5368.0	17.4
80°-90°	879.8	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°	30780.9	100.0
0°-180°	30780.9	100.0

Coefficient of Utilization



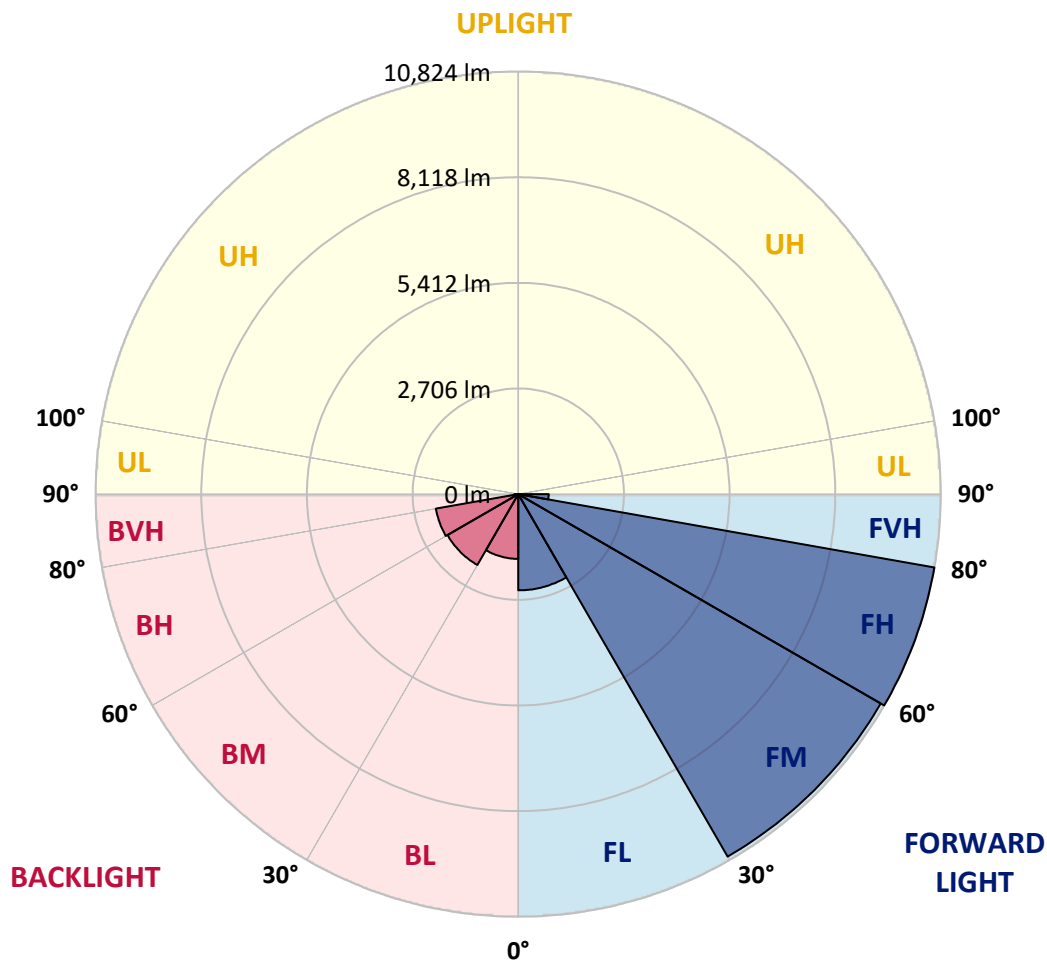
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2463.8	8.0			
FM (30°-60°)	10720.3	34.8			
FH (60°-80°)	10823.6	35.2			G4/12000
FVH (80°-90°)	778.3	2.5			G5
BL (0°-30°)	1657.8	5.4	B3/2500		
BM (30°-60°)	2094.1	6.8	B2/2500		
BH (60°-80°)	2141.4	7.0	B3/2500		G3/2500
BVH (80°-90°)	101.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7
2.5°	6635.0	6709.9	6737.2	6778.1	6883.7	6962.1	7009.8	7064.3	7129.1	7183.6	7217.7
5°	6171.5	6212.4	6277.1	6321.4	6454.3	6665.6	6808.8	7040.5	7033.7	7118.9	7248.4
7.5°	5721.7	5762.6	5793.2	5881.8	6072.7	6263.5	6525.9	6900.8	6873.5	7071.2	7272.2
10°	5442.2	5411.6	5421.8	5571.7	5721.7	5936.4	6266.9	6648.6	6747.4	7054.1	7340.4
12.5°	5179.8	5145.8	5227.5	5323.0	5507.0	5701.2	6096.5	6440.7	6590.7	6992.8	7371.0
15°	5016.3	4992.4	5094.6	5135.5	5353.6	5585.4	5864.8	6284.0	6447.5	6917.8	7323.3
17.5°	4924.2	4944.7	4982.2	5070.8	5210.5	5408.2	5714.9	6178.3	6249.9	6825.8	7313.1
20°	4941.3	4965.1	4968.5	5006.0	5101.5	5254.8	5568.3	6065.9	6113.6	6808.8	7340.4
22.5°	5077.6	5043.5	5057.2	5033.3	5060.6	5179.8	5455.9	5915.9	6099.9	6665.6	7282.4
25°	5282.1	5234.4	5227.5	5145.8	5094.6	5128.7	5435.4	5878.4	5997.7	6621.3	7279.0
27.5°	5643.3	5571.7	5571.7	5449.0	5241.2	5186.6	5377.5	5817.1	5922.7	6580.4	7200.6
30°	5990.9	5990.9	5994.3	5820.5	5588.8	5319.6	5401.3	5793.2	5861.4	6457.7	7095.0
32.5°	6413.4	6403.2	6386.2	6301.0	5943.2	5541.1	5517.2	5762.6	5796.6	6416.9	7064.3
35°	6825.8	6798.5	6931.4	6856.5	6491.8	5973.8	5636.5	5776.2	5851.2	6355.5	6968.9
37.5°	7135.9	7152.9	7429.0	7476.7	7163.2	6464.6	5973.8	5912.5	5984.1	6444.1	6968.9
40°	7538.0	7606.2	7865.2	8025.3	7834.5	7112.0	6508.9	6140.8	6191.9	6641.8	7118.9
42.5°	8066.2	8124.2	8454.7	8662.6	8608.1	7936.7	7037.1	6617.9	6577.0	6972.3	7343.8
45°	8764.8	8775.0	9109.0	9395.3	9507.7	8798.9	7875.4	7221.1	7187.0	7541.4	7756.1
47.5°	9596.3	9586.1	9794.0	10100.7	10404.0	9828.0	8839.8	8137.8	8015.1	8355.9	8441.1
50°	10400.6	10356.3	10404.0	10795.9	11378.6	11116.2	10012.1	9258.9	9136.3	9323.7	9470.2
52.5°	10843.6	10898.1	10768.6	11286.6	12414.6	12639.5	11566.0	10598.2	10492.6	10584.6	10840.2
55°	10533.5	10645.9	10560.7	11051.4	12867.8	14496.7	13576.6	12148.7	12012.4	11978.4	12397.5
57.5°	9214.6	9419.1	9436.2	10213.1	12711.0	15934.8	16405.1	13978.7	13774.3	13426.7	13859.5
60°	7074.6	7279.0	7435.8	8355.9	11368.4	16793.6	19683.4	16582.3	15907.5	15007.9	15266.9
62.5°	4958.3	5098.0	5254.8	5820.5	8764.8	16289.2	22518.6	20249.0	19005.2	16674.3	16998.0
65°	3612.3	3721.3	3881.5	4215.4	5384.3	13477.8	23834.0	24604.2	23425.1	18793.9	18753.0
67.5°	2719.4	2787.6	2998.8	3533.9	3731.5	8325.2	22470.9	29204.7	28250.5	21148.7	20163.9
70°	2058.3	2116.2	2313.9	3046.6	3486.2	4464.2	17727.3	30230.4	30503.1	23789.7	21111.2
72.5°	1417.6	1482.4	1703.9	2538.8	3319.2	3540.7	11126.4	27463.3	28495.9	24876.8	20095.7
75°	869.0	913.3	1042.8	1925.4	3295.3	3462.3	6123.8	22505.0	23598.9	22985.5	17580.8
77.5°	613.4	610.0	633.8	1128.0	2855.7	3482.8	3775.8	16490.3	17553.5	16940.1	11930.6
80°	446.4	449.8	473.7	674.7	1939.0	3540.7	2975.0	11044.6	11361.6	8833.0	4706.1
82.5°	269.2	282.8	340.8	456.6	1165.5	3196.5	2750.1	6137.4	5742.1	2835.3	1295.0
85°	143.1	143.1	201.1	289.7	620.2	2385.4	2647.8	2920.5	2446.8	879.2	480.5
87.5°	34.1	34.1	57.9	115.9	248.8	1141.6	1806.1	1162.1	930.3	296.5	197.7
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°	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7	7125.7
2.5°	7204.1	7163.2	7214.3	7112.0	7030.3	7033.7	6907.6	6900.8	6883.7	6795.1	6825.8
5°	7285.8	7251.8	7193.8	7081.4	6900.8	6720.1	6611.1	6471.4	6413.4	6382.8	6396.4
7.5°	7364.2	7302.9	7135.9	6979.1	6699.7	6358.9	6161.3	5973.8	5735.3	5708.0	5660.3
10°	7384.7	7255.2	7040.5	6706.5	6335.1	5956.8	5507.0	5159.4	4975.4	4832.2	4777.7
12.5°	7354.0	7299.5	6887.1	6457.7	5895.5	5302.5	4777.7	4287.0	3946.2	3769.0	3721.3
15°	7350.6	7255.2	6716.7	6079.5	5360.4	4586.9	3840.6	3251.0	2893.2	2746.7	2746.7
17.5°	7354.0	7125.7	6515.7	5697.8	4730.0	3683.8	2862.5	2378.6	2181.0	2160.5	2177.6
20°	7285.8	7030.3	6304.4	5248.0	3939.4	2767.1	2078.7	1881.1	1881.1	1908.4	1918.6
22.5°	7224.5	6887.1	5970.4	4692.5	3135.2	2003.8	1690.3	1632.3	1697.1	1744.8	1765.2
25°	7139.3	6767.9	5629.7	4116.6	2385.4	1615.3	1468.8	1482.4	1543.7	1628.9	1622.1
27.5°	7016.6	6560.0	5224.1	3448.7	1775.5	1393.8	1356.3	1363.1	1427.9	1465.3	1458.5
30°	6876.9	6348.7	4849.3	2784.2	1407.4	1277.9	1274.5	1291.5	1301.8	1322.2	1318.8
32.5°	6699.7	6069.3	4450.6	2163.9	1267.7	1213.2	1199.5	1189.3	1199.5	1196.1	1185.9
35°	6573.6	5919.3	4045.0	1649.4	1189.3	1155.2	1145.0	1128.0	1114.3	1093.9	1090.5
37.5°	6539.5	5769.4	3619.1	1346.1	1128.0	1110.9	1076.9	1046.2	1029.2	1018.9	1012.1
40°	6519.1	5670.6	3203.3	1182.5	1076.9	1059.8	1018.9	978.0	961.0	950.8	954.2
42.5°	6590.7	5616.0	2780.8	1100.7	1032.6	1001.9	957.6	909.9	906.5	899.7	909.9
45°	6842.8	5684.2	2388.9	1042.8	988.3	937.1	879.2	855.4	851.9	845.1	851.9
47.5°	7415.3	5854.6	2054.9	1005.3	940.5	896.2	834.9	800.8	797.4	794.0	794.0
50°	8205.9	6379.4	1775.5	961.0	909.9	848.5	790.6	753.1	746.3	732.7	732.7
52.5°	9446.4	7262.0	1608.5	937.1	855.4	804.2	742.9	702.0	685.0	671.3	671.3
55°	10843.6	8355.9	1577.8	896.2	797.4	749.7	695.2	654.3	637.3	620.2	613.4
57.5°	12435.0	9804.2	1795.9	869.0	756.5	695.2	633.8	596.4	582.7	565.7	558.9
60°	13917.4	11249.1	2474.1	828.1	719.0	644.1	582.7	545.2	528.2	511.2	511.2
62.5°	15631.5	13038.2	3622.5	828.1	685.0	589.5	528.2	500.9	490.7	473.7	470.3
65°	17659.1	14888.6	4460.8	879.2	674.7	541.8	477.1	449.8	439.6	429.4	426.0
67.5°	19202.9	15951.8	3837.2	1015.5	719.0	500.9	426.0	408.9	402.1	391.9	385.1
70°	19366.4	15304.4	2313.9	1097.3	763.3	460.1	381.7	364.6	364.6	354.4	347.6
72.5°	17897.7	13580.0	1557.4	978.0	691.8	412.3	337.4	323.7	316.9	310.1	306.7
75°	14977.2	11518.3	1230.2	780.4	531.6	340.8	293.1	279.4	269.2	265.8	259.0
77.5°	10059.8	7486.9	909.9	610.0	391.9	276.0	245.4	231.7	221.5	218.1	207.9
80°	3864.4	2852.3	586.1	443.0	276.0	218.1	194.2	180.6	173.8	163.6	156.8
82.5°	1138.2	923.5	327.1	272.6	177.2	149.9	139.7	129.5	119.3	109.0	105.6
85°	470.3	422.6	201.1	143.1	109.0	88.6	81.8	71.6	61.3	54.5	47.7
87.5°	218.1	180.6	92.0	54.5	37.5	20.4	10.2	3.4	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)