

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: P480138

Luminaire Tested: **IFLD-L-SA8C-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480138
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

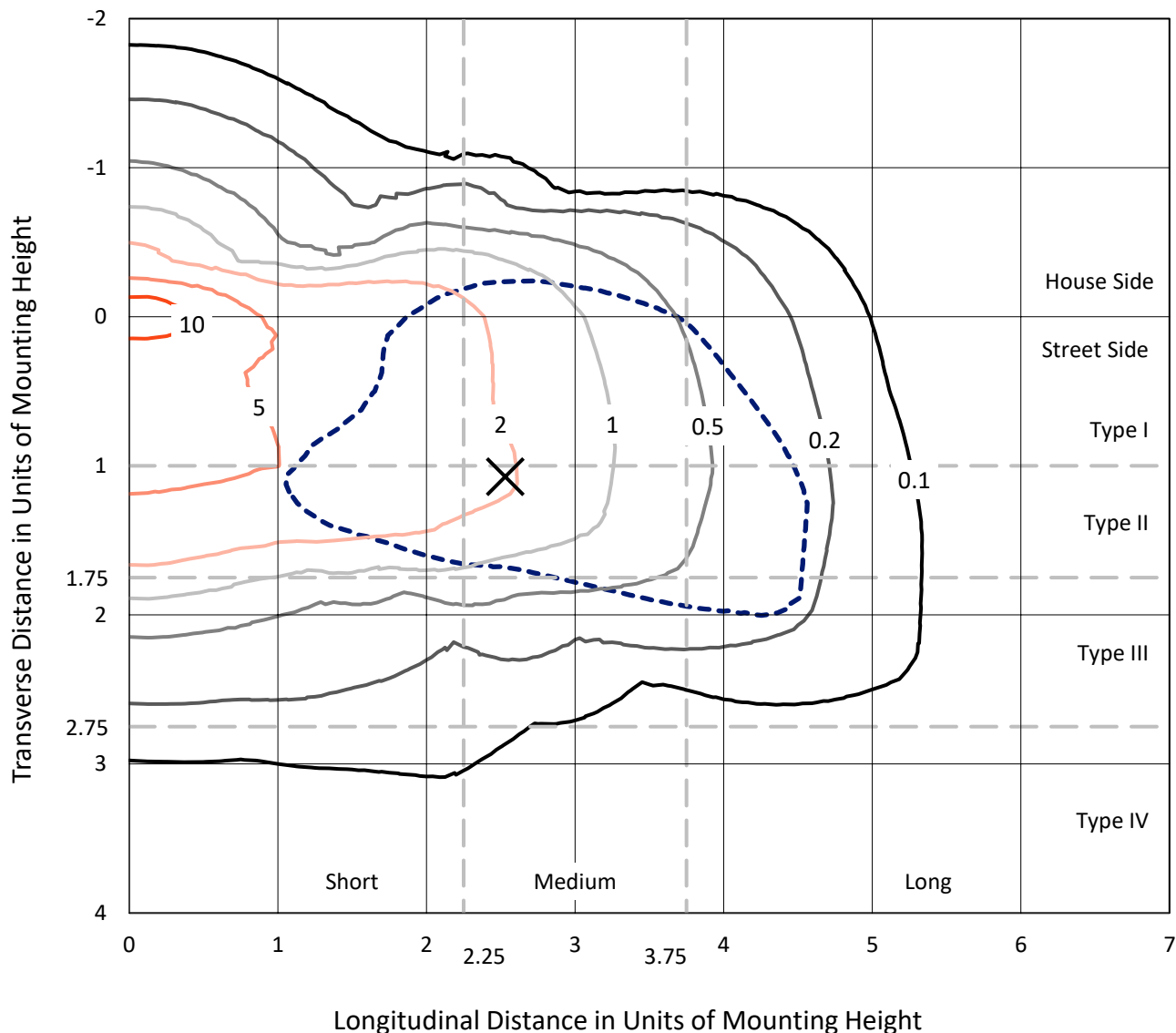
Lumens per Lamp: N/A
Luminaire Lumens: 50514.9 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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

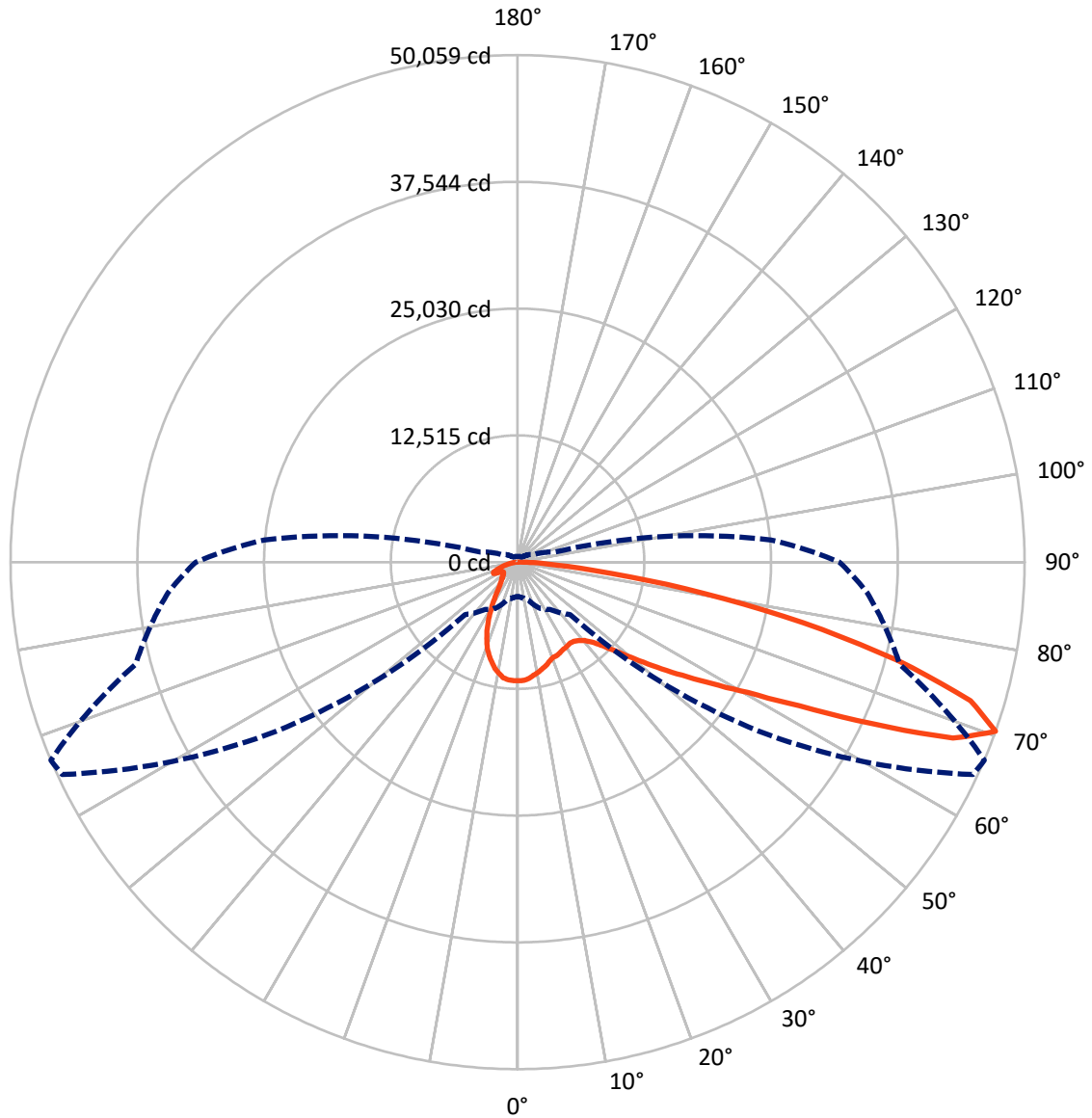
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.1 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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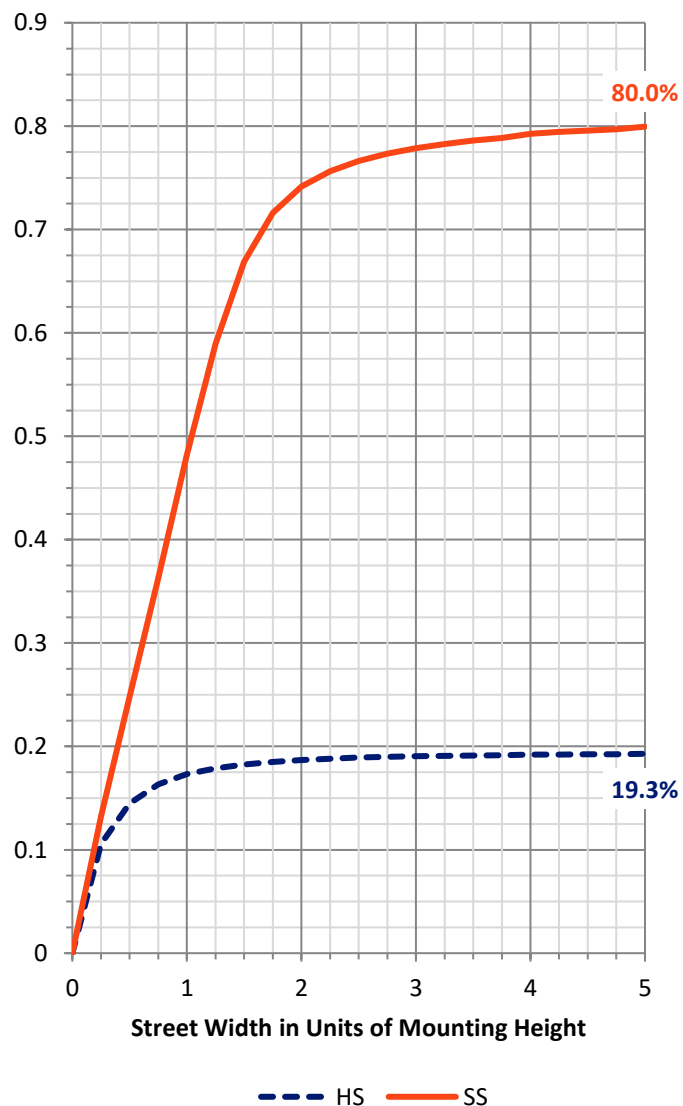
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9838.3	0.0	9838.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	40676.7	0.0	40676.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	50514.9	0.0	50514.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1020.3	2.0
10°-20°	2443.7	4.8
20°-30°	3300.0	6.5
30°-40°	4415.7	8.7
40°-50°	6493.1	12.9
50°-60°	10121.2	20.0
60°-70°	12467.6	24.7
70°-80°	8809.5	17.4
80°-90°	1443.9	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°	50514.9	100.0
0°-180°	50514.9	100.0

Coefficient of Utilization

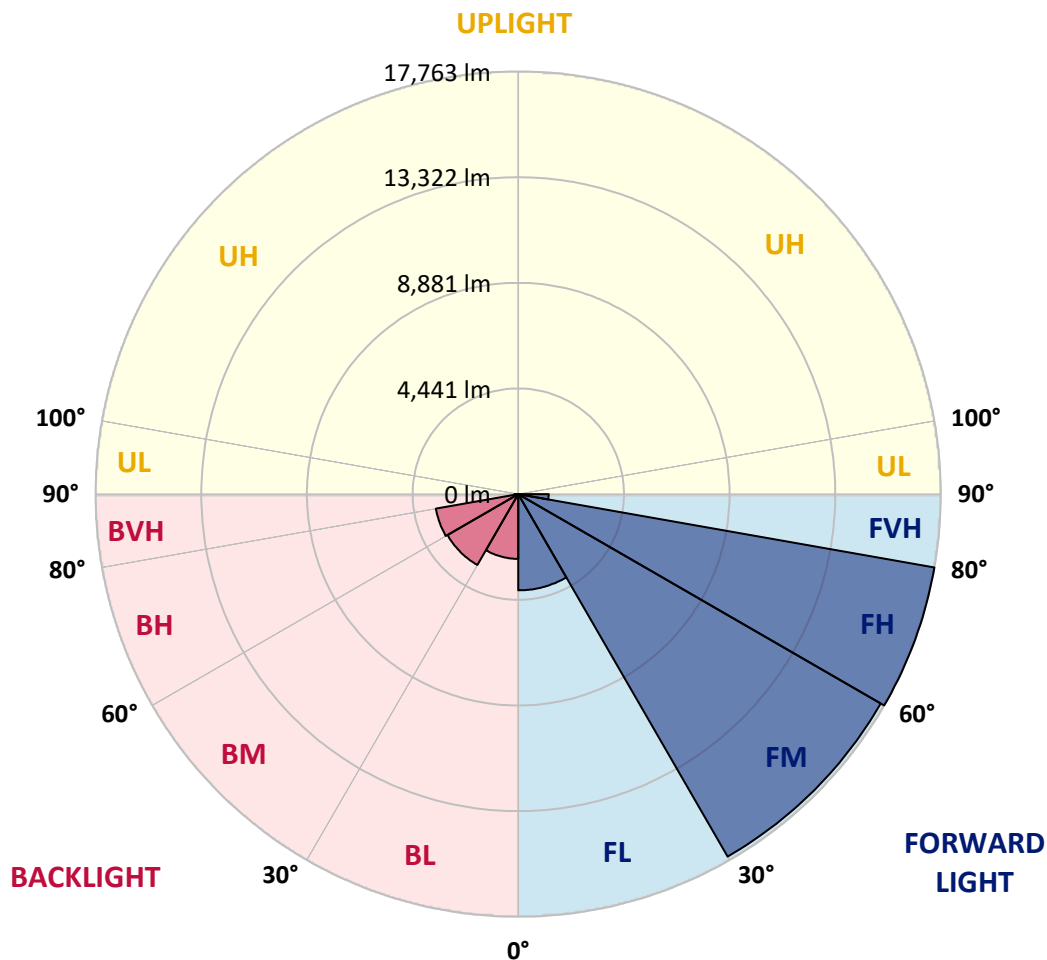


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4043.3	8.0			
FM	(30°-60°)	17593.2	34.8			
FH	(60°-80°)	17762.7	35.2			G5
FVH	(80°-90°)	1277.4	2.5			G5
BL	(0°-30°)	2720.6	5.4	B4/5000		
BM	(30°-60°)	3436.7	6.8	B3/5000		
BH	(60°-80°)	3514.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	166.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0
2.5°	10888.7	11011.8	11056.5	11123.6	11297.0	11425.6	11503.9	11593.4	11699.6	11789.1	11845.0
5°	10128.1	10195.2	10301.5	10374.2	10592.3	10939.0	11173.9	11554.2	11543.0	11682.9	11895.4
7.5°	9389.9	9457.0	9507.4	9652.8	9965.9	10279.1	10709.8	11324.9	11280.2	11604.6	11934.5
10°	8931.3	8881.0	8897.8	9143.8	9389.9	9742.2	10284.7	10911.1	11073.3	11576.6	12046.4
12.5°	8500.7	8444.8	8579.0	8735.6	9037.6	9356.4	10005.1	10569.9	10816.0	11475.9	12096.7
15°	8232.2	8193.1	8360.9	8428.0	8785.9	9166.2	9624.8	10312.7	10581.1	11352.9	12018.4
17.5°	8081.2	8114.8	8176.3	8321.7	8551.0	8875.4	9378.7	10139.3	10256.8	11201.9	12001.6
20°	8109.2	8148.4	8154.0	8215.5	8372.1	8623.7	9138.2	9954.8	10033.1	11173.9	12046.4
22.5°	8332.9	8277.0	8299.4	8260.2	8305.0	8500.7	8953.7	9708.7	10010.7	10939.0	11951.3
25°	8668.5	8590.2	8579.0	8444.8	8360.9	8416.8	8920.1	9647.2	9842.9	10866.3	11945.7
27.5°	9261.3	9143.8	9143.8	8942.5	8601.4	8511.9	8825.1	9546.5	9719.9	10799.2	11817.1
30°	9831.7	9831.7	9837.3	9552.1	9171.8	8730.0	8864.2	9507.4	9619.2	10597.9	11643.7
32.5°	10525.2	10508.4	10480.5	10340.6	9753.4	9093.5	9054.4	9457.0	9512.9	10530.8	11593.4
35°	11201.9	11157.2	11375.3	11252.2	10653.8	9803.8	9250.1	9479.4	9602.4	10430.1	11436.8
37.5°	11710.8	11738.8	12191.8	12270.1	11755.6	10609.1	9803.8	9703.1	9820.5	10575.5	11436.8
40°	12370.7	12482.6	12907.6	13170.5	12857.3	11671.7	10681.8	10077.8	10161.7	10899.9	11682.9
42.5°	13237.6	13332.7	13875.1	14216.3	14126.8	13025.1	11548.6	10860.8	10793.6	11442.4	12052.0
45°	14384.1	14400.8	14948.9	15418.7	15603.2	14440.0	12924.4	11850.6	11794.7	12376.3	12728.7
47.5°	15748.6	15731.9	16073.0	16576.3	17074.1	16128.9	14507.1	13355.0	13153.7	13713.0	13852.8
50°	17068.5	16995.8	17074.1	17717.2	18673.6	18242.9	16430.9	15195.0	14993.7	15301.2	15541.7
52.5°	17795.5	17885.0	17672.5	18522.6	20373.7	20742.8	18981.1	17392.9	17219.5	17370.5	17789.9
55°	17286.6	17471.2	17331.3	18136.7	21117.5	23790.7	22280.8	19937.5	19713.8	19657.8	20345.7
57.5°	15122.3	15457.8	15485.8	16760.9	20860.2	26150.8	26922.6	22940.7	22605.1	22034.7	22744.9
60°	11610.2	11945.7	12203.0	13713.0	18656.8	27560.1	32302.6	27213.4	26106.1	24629.6	25054.7
62.5°	8137.2	8366.5	8623.7	9552.1	14384.1	26732.4	36955.6	33231.0	31189.7	27364.4	27895.7
65°	5928.1	6107.1	6369.9	6918.0	8836.2	22118.6	39114.4	40378.3	38443.3	30843.0	30775.9
67.5°	4462.9	4574.7	4921.5	5799.5	6123.9	13662.6	36877.3	47928.2	46362.3	34707.4	33091.2
70°	3377.9	3473.0	3797.3	4999.7	5721.2	7326.3	29092.5	49611.6	50059.0	39041.7	34645.9
72.5°	2326.5	2432.8	2796.3	4166.5	5447.2	5810.7	18259.7	45070.4	46765.0	40825.7	32979.3
75°	1426.1	1498.8	1711.3	3159.8	5408.0	5682.0	10049.8	36933.3	38728.5	37721.8	28852.0
77.5°	1006.7	1001.1	1040.2	1851.1	4686.6	5715.6	6196.6	27062.4	28807.3	27800.6	19579.6
80°	732.6	738.2	777.4	1107.3	3182.2	5810.7	4882.3	18125.5	18645.6	14495.9	7723.3
82.5°	441.8	464.2	559.3	749.4	1912.7	5245.8	4513.2	10072.2	9423.5	4653.0	2125.2
85°	234.9	234.9	330.0	475.4	1017.8	3914.8	4345.4	4792.8	4015.5	1442.9	788.6
87.5°	55.9	55.9	95.1	190.1	408.3	1873.5	2964.1	1907.1	1526.8	486.6	324.4
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°	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0	11694.0
2.5°	11822.7	11755.6	11839.4	11671.7	11537.5	11543.0	11336.1	11324.9	11297.0	11151.6	11201.9
5°	11956.9	11901.0	11805.9	11621.3	11324.9	11028.5	10849.6	10620.3	10525.2	10474.9	10497.2
7.5°	12085.5	11984.9	11710.8	11453.6	10995.0	10435.7	10111.3	9803.8	9412.3	9367.5	9289.2
10°	12119.1	11906.6	11554.2	11006.2	10396.6	9775.8	9037.6	8467.1	8165.1	7930.2	7840.8
12.5°	12068.7	11979.3	11302.6	10597.9	9675.1	8702.0	7840.8	7035.4	6476.2	6185.4	6107.1
15°	12063.2	11906.6	11022.9	9977.1	8797.1	7527.6	6302.8	5335.3	4748.1	4507.6	4507.6
17.5°	12068.7	11694.0	10693.0	9350.8	7762.5	6045.6	4697.8	3903.6	3579.2	3545.7	3573.6
20°	11956.9	11537.5	10346.2	8612.5	6465.0	4541.2	3411.5	3087.1	3087.1	3131.8	3148.6
22.5°	11856.2	11302.6	9798.2	7701.0	5145.2	3288.4	2773.9	2678.8	2785.1	2863.4	2896.9
25°	11716.4	11106.8	9238.9	6755.8	3914.8	2650.9	2410.4	2432.8	2533.4	2673.2	2662.1
27.5°	11515.1	10765.7	8573.4	5659.7	2913.7	2287.4	2225.8	2237.0	2343.3	2404.8	2393.6
30°	11285.8	10418.9	7958.2	4569.1	2309.7	2097.2	2091.6	2119.6	2136.4	2169.9	2164.3
32.5°	10995.0	9960.3	7303.9	3551.3	2080.4	1991.0	1968.6	1951.8	1968.6	1963.0	1946.2
35°	10788.0	9714.3	6638.4	2706.8	1951.8	1895.9	1879.1	1851.1	1828.8	1795.2	1789.6
37.5°	10732.1	9468.2	5939.3	2209.1	1851.1	1823.2	1767.2	1716.9	1689.0	1672.2	1661.0
40°	10698.6	9306.0	5257.0	1940.6	1767.2	1739.3	1672.2	1605.1	1577.1	1560.3	1565.9
42.5°	10816.0	9216.5	4563.5	1806.4	1694.5	1644.2	1571.5	1493.2	1487.6	1476.4	1493.2
45°	11229.9	9328.4	3920.4	1711.3	1621.8	1538.0	1442.9	1403.7	1398.1	1387.0	1398.1
47.5°	12169.4	9608.0	3372.3	1649.8	1543.5	1470.8	1370.2	1314.3	1308.7	1303.1	1303.1
50°	13466.9	10469.3	2913.7	1577.1	1493.2	1392.5	1297.5	1236.0	1224.8	1202.4	1202.4
52.5°	15502.6	11917.7	2639.7	1538.0	1403.7	1319.8	1219.2	1152.1	1124.1	1101.7	1101.7
55°	17795.5	13713.0	2589.4	1470.8	1308.7	1230.4	1140.9	1073.8	1045.8	1017.8	1006.7
57.5°	20407.3	16089.8	2947.3	1426.1	1241.5	1140.9	1040.2	978.7	956.3	928.4	917.2
60°	22840.0	18461.0	4060.2	1359.0	1180.0	1057.0	956.3	894.8	866.8	838.9	838.9
62.5°	25653.1	21397.1	5944.9	1359.0	1124.1	967.5	866.8	822.1	805.3	777.4	771.8
65°	28980.6	24433.9	7320.7	1442.9	1107.3	889.2	783.0	738.2	721.4	704.7	699.1
67.5°	31514.1	26178.8	6297.2	1666.6	1180.0	822.1	699.1	671.1	659.9	643.1	632.0
70°	31782.5	25116.2	3797.3	1800.8	1252.7	755.0	626.4	598.4	598.4	581.6	570.4
72.5°	29372.1	22286.4	2555.8	1605.1	1135.3	676.7	553.7	531.3	520.1	508.9	503.3
75°	24579.3	18902.9	2018.9	1280.7	872.4	559.3	481.0	458.6	441.8	436.2	425.0
77.5°	16509.2	12286.9	1493.2	1001.1	643.1	453.0	402.7	380.3	363.5	357.9	341.1
80°	6342.0	4681.0	961.9	727.0	453.0	357.9	318.8	296.4	285.2	268.4	257.3
82.5°	1867.9	1515.6	536.9	447.4	290.8	246.1	229.3	212.5	195.7	179.0	173.4
85°	771.8	693.5	330.0	234.9	179.0	145.4	134.2	117.4	100.7	89.5	78.3
87.5°	357.9	296.4	151.0	89.5	61.5	33.6	16.8	5.6	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)