

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: P480290

Luminaire Tested: **IFLD-L-SA7D-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480290
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

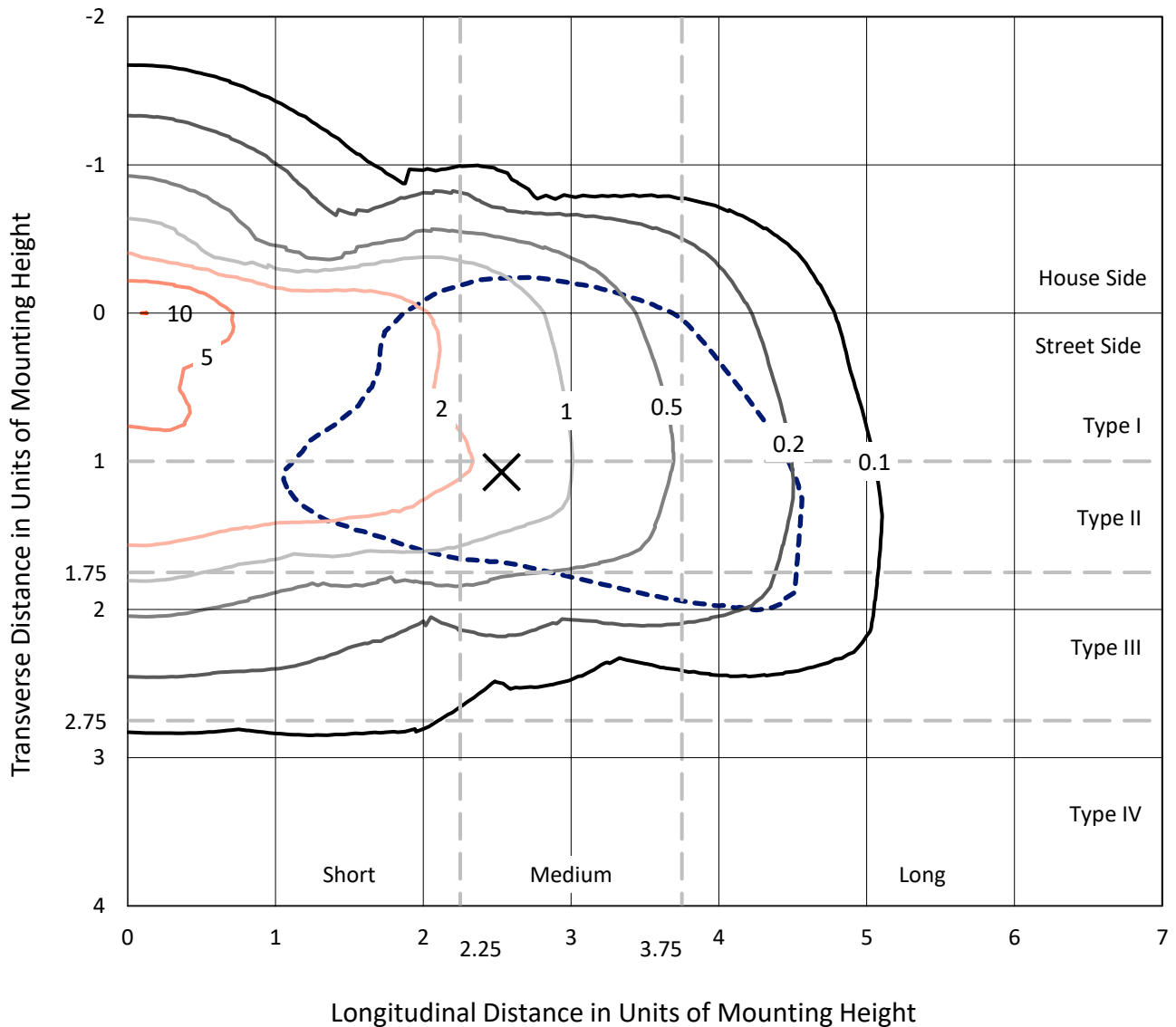
Lumens per Lamp: N/A
Luminaire Lumens: 38645.8 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 422.6
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

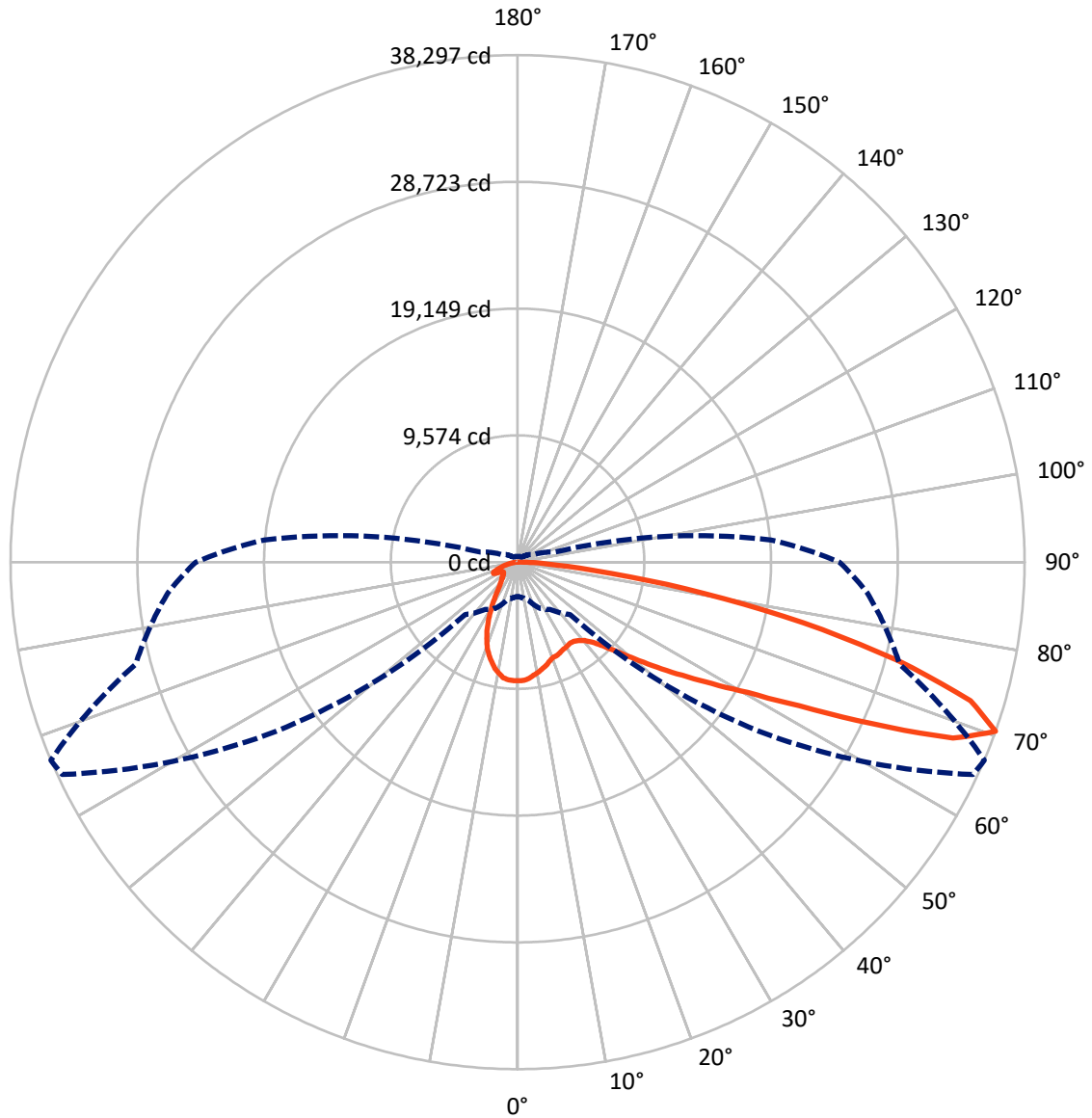
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10 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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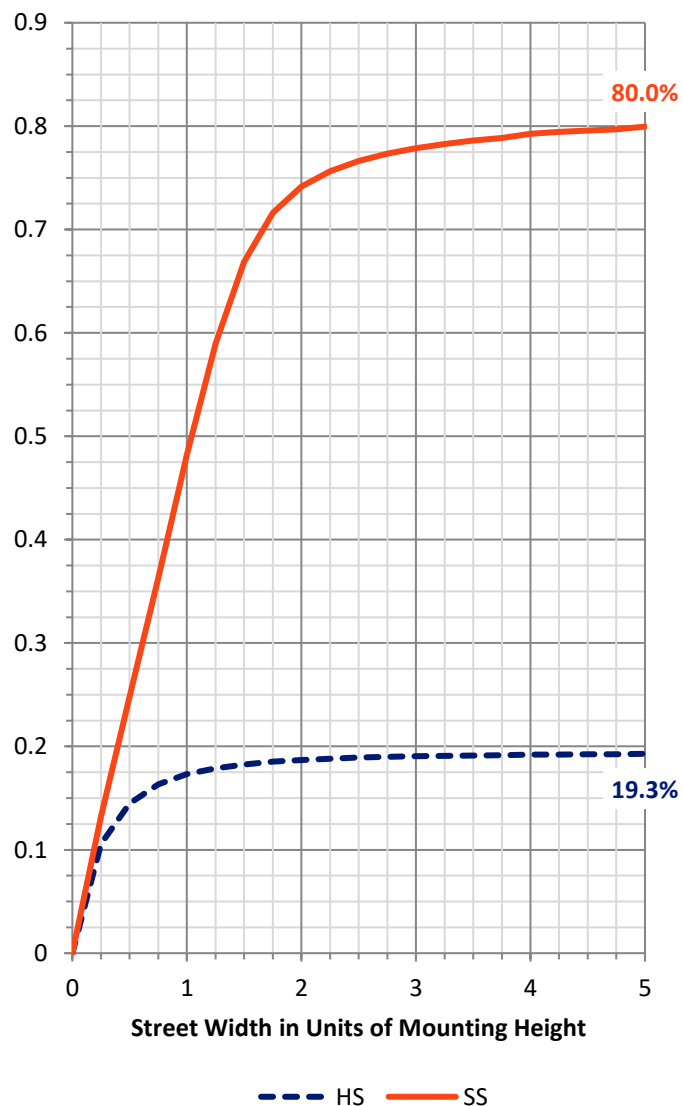
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7526.7	0.0	7526.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	31119.2	0.0	31119.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	38645.8	0.0	38645.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	780.6	2.0
10°-20°	1869.5	4.8
20°-30°	2524.6	6.5
30°-40°	3378.2	8.7
40°-50°	4967.5	12.9
50°-60°	7743.1	20.0
60°-70°	9538.2	24.7
70°-80°	6739.6	17.4
80°-90°	1104.7	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°	38645.8	100.0
0°-180°	38645.8	100.0

Coefficient of Utilization

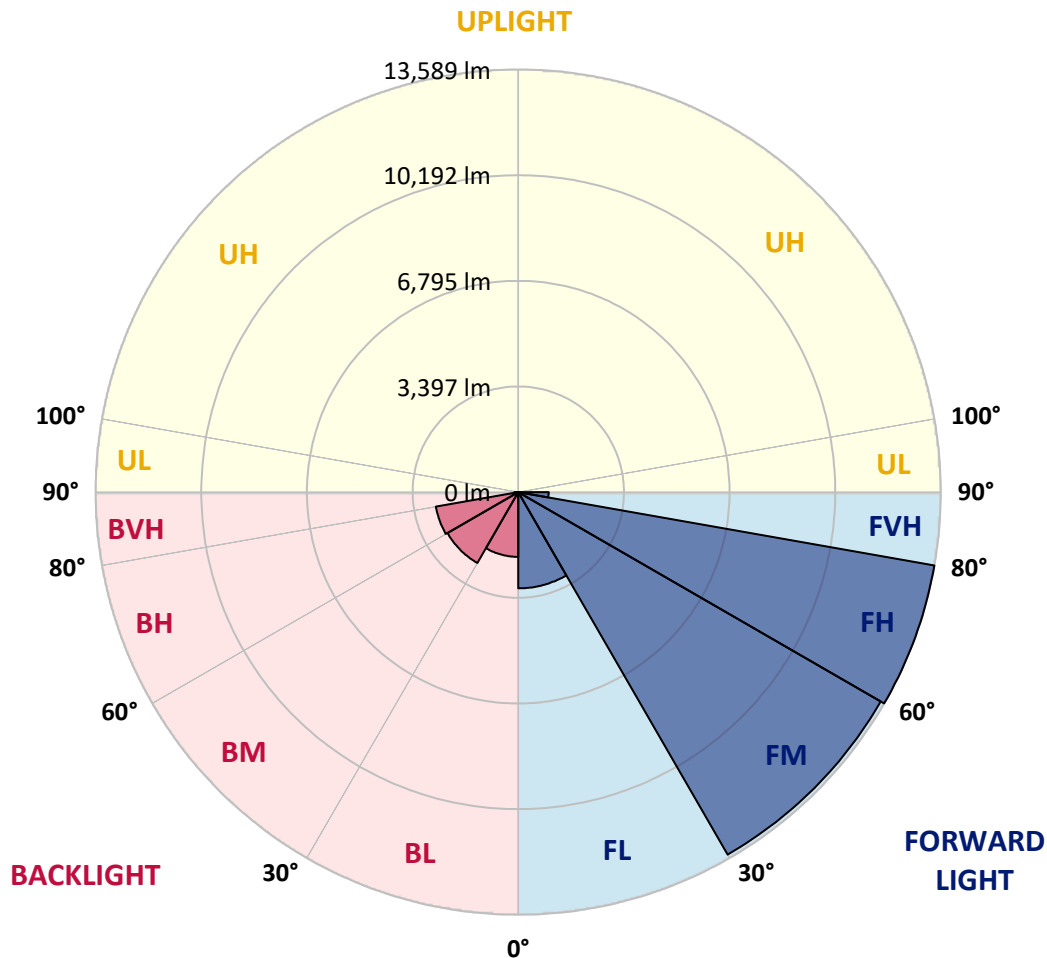


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3093.3	8.0			
FM (30°-60°)	13459.5	34.8			
FH (60°-80°)	13589.2	35.2			G5
FVH (80°-90°)	977.2	2.5			G5
BL (0°-30°)	2081.4	5.4	B3/2500		
BM (30°-60°)	2629.2	6.8	B3/5000		
BH (60°-80°)	2688.6	7.0	B4/5000		G4/5000
BVH (80°-90°)	127.4	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°	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4
2.5°	8330.3	8424.4	8458.6	8510.0	8642.6	8741.0	8800.9	8869.4	8950.7	9019.1	9061.9
5°	7748.4	7799.7	7881.0	7936.7	8103.5	8368.8	8548.5	8839.4	8830.9	8937.8	9100.4
7.5°	7183.6	7235.0	7273.5	7384.7	7624.3	7863.9	8193.4	8664.0	8629.8	8877.9	9130.4
10°	6832.8	6794.3	6807.1	6995.4	7183.6	7453.2	7868.2	8347.4	8471.5	8856.5	9215.9
12.5°	6503.3	6460.6	6563.2	6683.0	6914.1	7158.0	7654.3	8086.4	8274.7	8779.5	9254.4
15°	6298.0	6268.0	6396.4	6447.7	6721.6	7012.5	7363.3	7889.6	8095.0	8685.4	9194.5
17.5°	6182.5	6208.1	6255.2	6366.4	6541.9	6790.0	7175.1	7757.0	7846.8	8569.9	9181.7
20°	6203.9	6233.8	6238.1	6285.1	6404.9	6597.5	6991.1	7615.8	7675.7	8548.5	9215.9
22.5°	6375.0	6332.2	6349.3	6319.4	6353.6	6503.3	6849.9	7427.5	7658.5	8368.8	9143.2
25°	6631.7	6571.8	6563.2	6460.6	6396.4	6439.2	6824.2	7380.4	7530.2	8313.2	9138.9
27.5°	7085.2	6995.4	6995.4	6841.4	6580.4	6511.9	6751.5	7303.4	7436.1	8261.8	9040.5
30°	7521.6	7521.6	7525.9	7307.7	7016.8	6678.8	6781.5	7273.5	7359.1	8107.8	8907.9
32.5°	8052.2	8039.3	8017.9	7911.0	7461.7	6956.9	6926.9	7235.0	7277.8	8056.5	8869.4
35°	8569.9	8535.6	8702.5	8608.4	8150.6	7500.2	7076.7	7252.1	7346.2	7979.4	8749.6
37.5°	8959.2	8980.6	9327.2	9387.1	8993.4	8116.4	7500.2	7423.2	7513.1	8090.7	8749.6
40°	9464.1	9549.7	9874.8	10075.9	9836.3	8929.3	8172.0	7709.9	7774.1	8338.8	8937.8
42.5°	10127.3	10200.0	10615.0	10876.0	10807.5	9964.7	8835.1	8308.9	8257.5	8753.8	9220.2
45°	11004.4	11017.2	11436.5	11795.9	11937.1	11047.1	9887.7	9066.2	9023.4	9468.4	9737.9
47.5°	12048.3	12035.5	12296.5	12681.5	13062.3	12339.2	11098.5	10217.1	10063.1	10490.9	10597.9
50°	13058.0	13002.4	13062.3	13554.3	14286.0	13956.5	12570.3	11624.7	11470.7	11706.0	11890.0
52.5°	13614.2	13682.7	13520.1	14170.5	15586.6	15869.0	14521.3	13306.2	13173.6	13289.1	13610.0
55°	13224.9	13366.1	13259.1	13875.2	16155.7	18200.8	17045.6	15252.9	15081.8	15039.0	15565.3
57.5°	11569.1	11825.8	11847.2	12822.7	15958.9	20006.4	20596.8	17550.5	17293.8	16857.4	17400.7
60°	8882.2	9138.9	9335.7	10490.9	14273.1	21084.5	24712.7	20819.3	19972.1	18842.6	19167.8
62.5°	6225.2	6400.7	6597.5	7307.7	11004.4	20451.3	28272.5	25423.0	23861.3	20934.8	21341.3
65°	4535.2	4672.1	4873.2	5292.5	6760.1	16921.5	29924.0	30890.9	29410.5	23596.0	23544.7
67.5°	3414.3	3499.8	3765.1	4436.8	4685.0	10452.4	28212.6	36666.9	35468.9	26552.5	25316.0
70°	2584.2	2657.0	2905.1	3825.0	4376.9	5604.9	22256.9	37954.7	38297.0	29868.3	26505.4
72.5°	1779.9	1861.2	2139.3	3187.5	4167.3	4445.4	13969.4	34480.6	35777.0	31233.2	25230.4
75°	1091.0	1146.6	1309.2	2417.4	4137.3	4347.0	7688.5	28255.3	29628.7	28858.6	22072.9
77.5°	770.1	765.9	795.8	1416.2	3585.4	4372.6	4740.6	20703.8	22038.7	21268.5	14979.1
80°	560.5	564.8	594.7	847.1	2434.5	4445.4	3735.1	13866.7	14264.6	11089.9	5908.6
82.5°	338.0	355.1	427.9	573.3	1463.3	4013.3	3452.8	7705.6	7209.3	3559.7	1625.8
85°	179.7	179.7	252.4	363.7	778.7	2995.0	3324.4	3666.7	3072.0	1103.9	603.3
87.5°	42.8	42.8	72.7	145.5	312.3	1433.3	2267.6	1459.0	1168.0	372.2	248.2
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°	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4	8946.4
2.5°	9044.8	8993.4	9057.6	8929.3	8826.6	8830.9	8672.6	8664.0	8642.6	8531.4	8569.9
5°	9147.5	9104.7	9032.0	8890.8	8664.0	8437.2	8300.3	8124.9	8052.2	8013.7	8030.8
7.5°	9245.9	9168.9	8959.2	8762.4	8411.6	7983.7	7735.6	7500.2	7200.7	7166.5	7106.6
10°	9271.6	9109.0	8839.4	8420.1	7953.8	7478.9	6914.1	6477.7	6246.6	6066.9	5998.5
12.5°	9233.0	9164.6	8646.9	8107.8	7401.8	6657.4	5998.5	5382.4	4954.5	4732.0	4672.1
15°	9228.8	9109.0	8433.0	7632.9	6730.1	5758.9	4821.9	4081.7	3632.5	3448.5	3448.5
17.5°	9233.0	8946.4	8180.5	7153.7	5938.6	4625.1	3594.0	2986.4	2738.3	2712.6	2734.0
20°	9147.5	8826.6	7915.3	6588.9	4946.0	3474.2	2609.9	2361.7	2361.7	2396.0	2408.8
22.5°	9070.5	8646.9	7496.0	5891.5	3936.2	2515.8	2122.1	2049.4	2130.7	2190.6	2216.3
25°	8963.5	8497.1	7068.1	5168.5	2995.0	2028.0	1844.0	1861.2	1938.2	2045.1	2036.6
27.5°	8809.5	8236.1	6559.0	4329.9	2229.1	1749.9	1702.9	1711.4	1792.7	1839.8	1831.2
30°	8634.1	7970.9	6088.3	3495.6	1767.0	1604.4	1600.2	1621.6	1634.4	1660.1	1655.8
32.5°	8411.6	7620.0	5587.7	2716.9	1591.6	1523.2	1506.0	1493.2	1506.0	1501.8	1488.9
35°	8253.3	7431.8	5078.6	2070.8	1493.2	1450.4	1437.6	1416.2	1399.1	1373.4	1369.1
37.5°	8210.5	7243.5	4543.8	1690.0	1416.2	1394.8	1352.0	1313.5	1292.1	1279.3	1270.7
40°	8184.8	7119.5	4021.8	1484.6	1352.0	1330.6	1279.3	1227.9	1206.5	1193.7	1198.0
42.5°	8274.7	7051.0	3491.3	1382.0	1296.4	1257.9	1202.3	1142.4	1138.1	1129.5	1142.4
45°	8591.3	7136.6	2999.2	1309.2	1240.8	1176.6	1103.9	1073.9	1069.6	1061.1	1069.6
47.5°	9310.1	7350.5	2579.9	1262.2	1180.9	1125.3	1048.2	1005.5	1001.2	996.9	996.9
50°	10302.7	8009.4	2229.1	1206.5	1142.4	1065.4	992.6	945.6	937.0	919.9	919.9
52.5°	11860.1	9117.5	2019.5	1176.6	1073.9	1009.7	932.7	881.4	860.0	842.9	842.9
55°	13614.2	10490.9	1981.0	1125.3	1001.2	941.3	872.8	821.5	800.1	778.7	770.1
57.5°	15612.3	12309.3	2254.8	1091.0	949.8	872.8	795.8	748.7	731.6	710.2	701.7
60°	17473.5	14123.4	3106.2	1039.7	902.8	808.6	731.6	684.6	663.2	641.8	641.8
62.5°	19625.6	16369.6	4548.1	1039.7	860.0	740.2	663.2	628.9	616.1	594.7	590.4
65°	22171.3	18692.8	5600.6	1103.9	847.1	680.3	599.0	564.8	551.9	539.1	534.8
67.5°	24109.5	20027.7	4817.6	1275.0	902.8	628.9	534.8	513.4	504.9	492.0	483.5
70°	24314.8	19214.8	2905.1	1377.7	958.4	577.6	479.2	457.8	457.8	445.0	436.4
72.5°	22470.8	17049.9	1955.3	1227.9	868.5	517.7	423.6	406.5	397.9	389.3	385.1
75°	18804.1	14461.4	1544.5	979.8	667.4	427.9	368.0	350.8	338.0	333.7	325.2
77.5°	12630.2	9399.9	1142.4	765.9	492.0	346.6	308.1	290.9	278.1	273.8	261.0
80°	4851.8	3581.1	735.9	556.2	346.6	273.8	243.9	226.8	218.2	205.4	196.8
82.5°	1429.0	1159.5	410.7	342.3	222.5	188.3	175.4	162.6	149.7	136.9	132.6
85°	590.4	530.5	252.4	179.7	136.9	111.2	102.7	89.8	77.0	68.5	59.9
87.5°	273.8	226.8	115.5	68.5	47.1	25.7	12.8	4.3	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)