

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: P480449

Luminaire Tested: **IFLD-L-SA8B-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480449
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

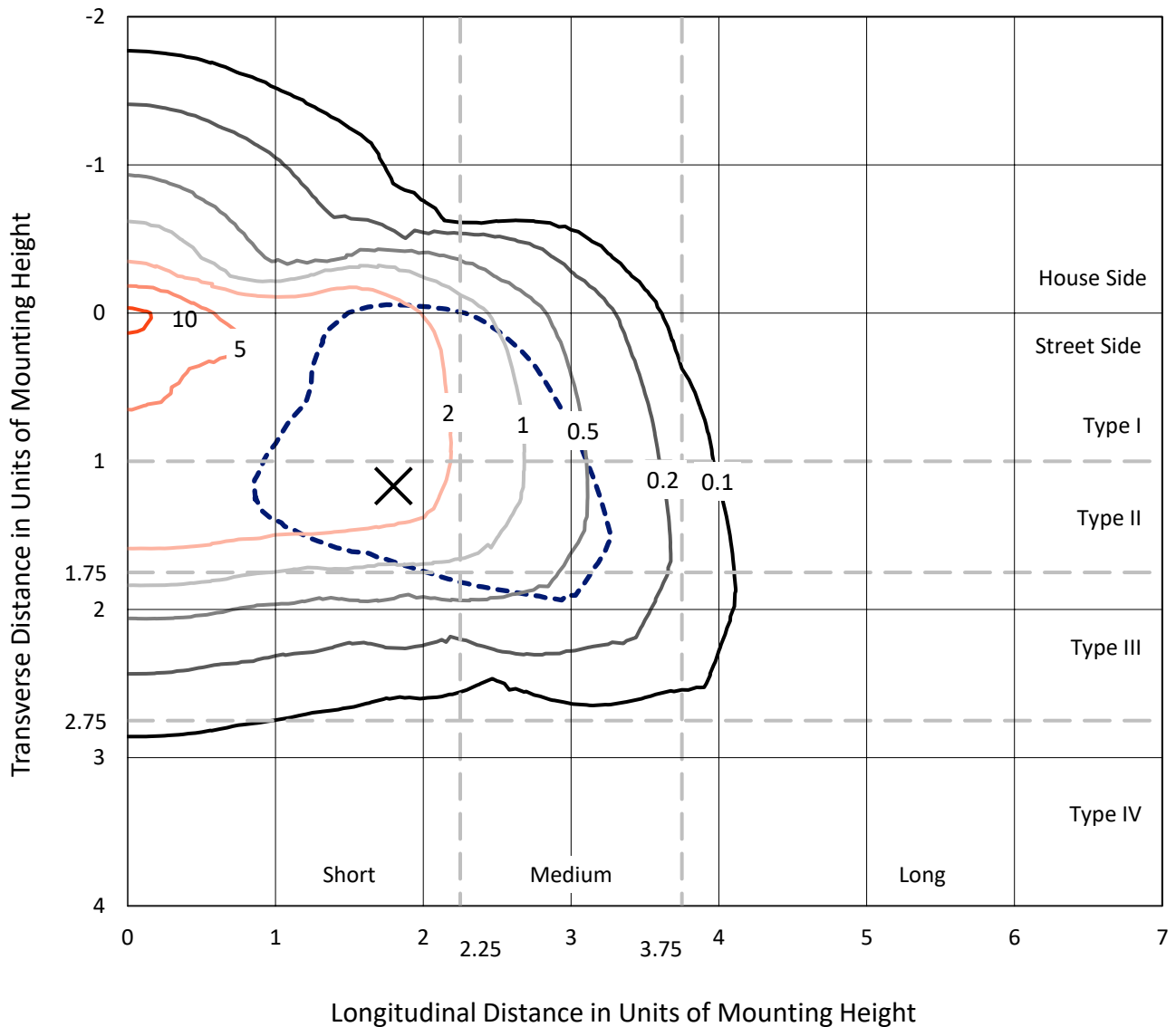
Lumens per Lamp: N/A
Luminaire Lumens: 36568.3 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 320
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

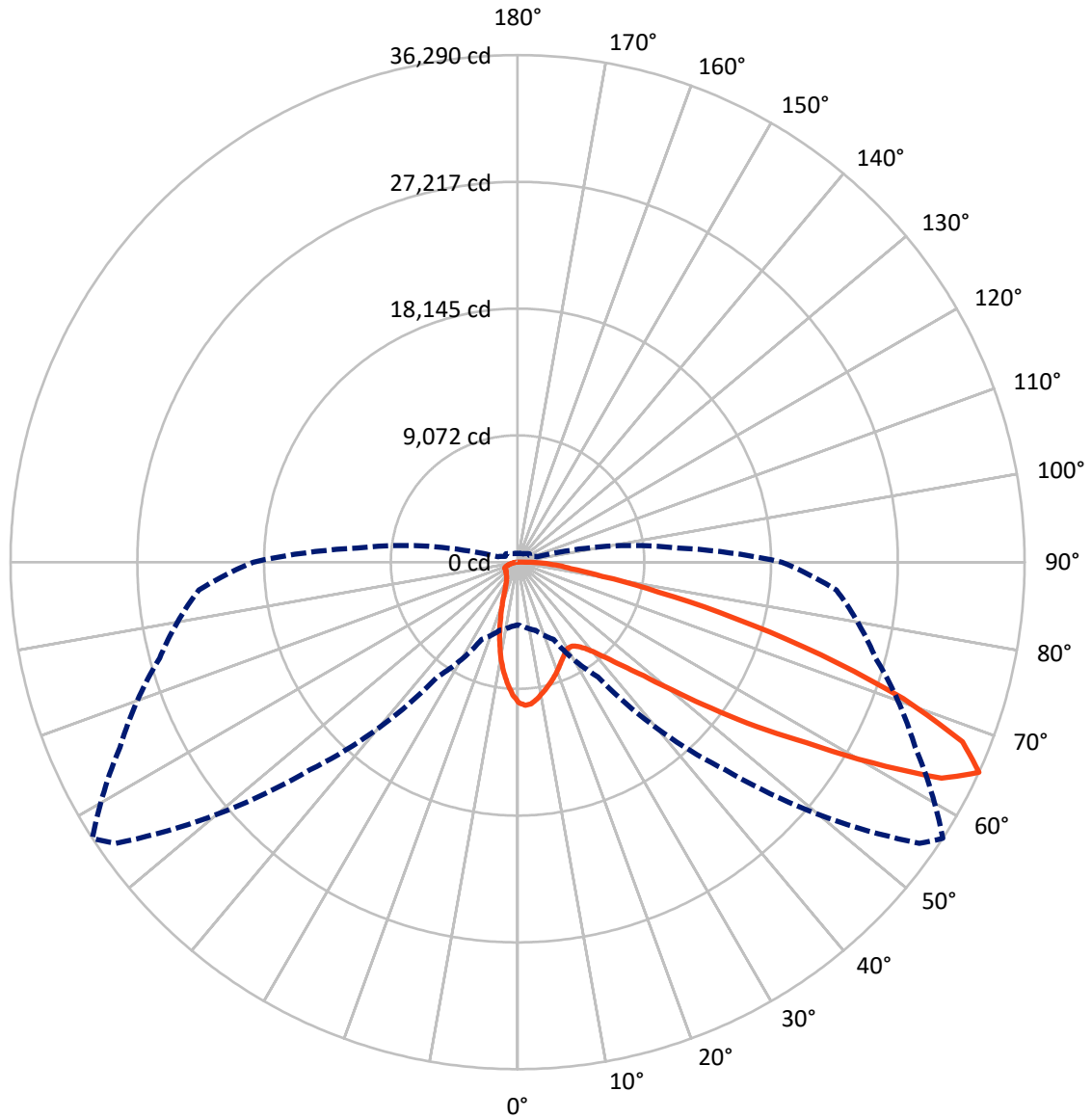
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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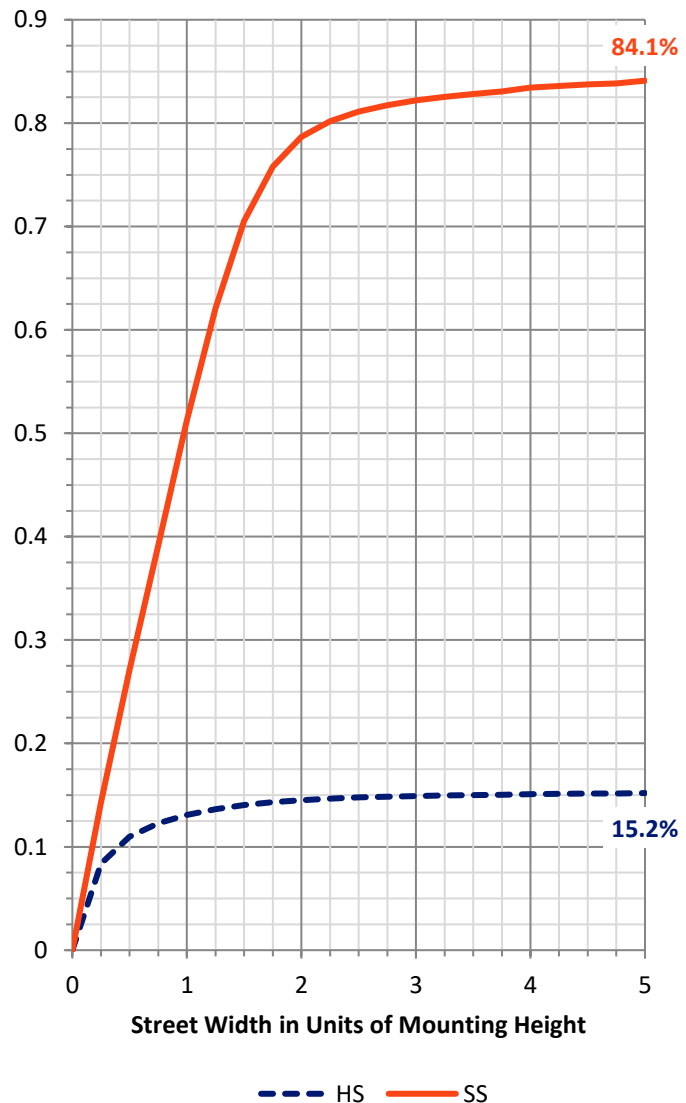
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5608.1	0.0	5608.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	30960.2	0.0	30960.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	36568.3	0.0	36568.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.1	2.3
10°-20°	1812.3	5.0
20°-30°	2343.2	6.4
30°-40°	3153.1	8.6
40°-50°	5027.8	13.7
50°-60°	8880.3	24.3
60°-70°	9769.5	26.7
70°-80°	4086.8	11.2
80°-90°	653.1	1.8
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°	36568.3	100.0
0°-180°	36568.3	100.0

Coefficient of Utilization



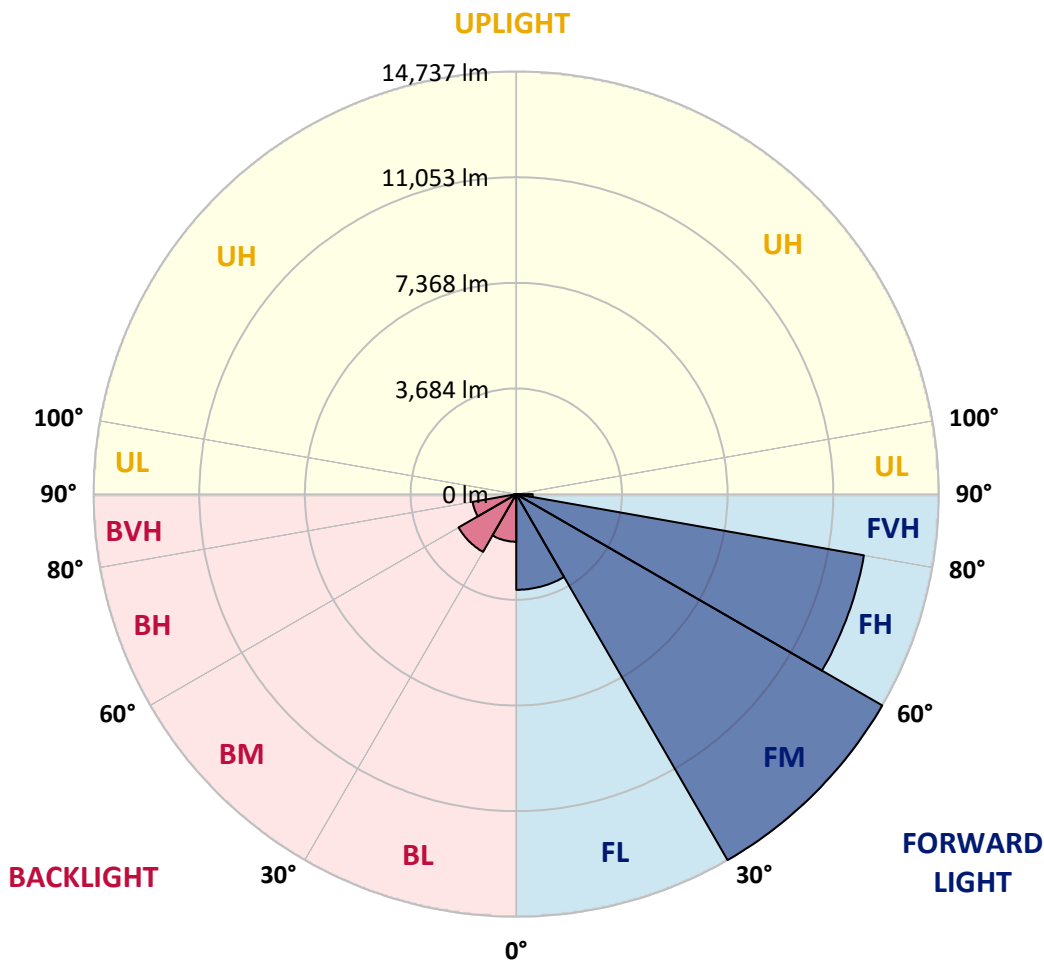
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3336.7	9.1			
FM (30°-60°)	14737.0	40.3			
FH (60°-80°)	12310.0	33.7			G5
FVH (80°-90°)	576.5	1.6			G4/750
BL (0°-30°)	1660.8	4.5	B3/2500		
BM (30°-60°)	2324.3	6.4	B2/2500		
BH (60°-80°)	1546.3	4.2	B3/2500		G3/2500
BVH (80°-90°)	76.6	0.2			G1/100
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8
2.5°	10327.3	10343.8	10343.8	10376.7	10265.6	10319.1	10310.9	10261.5	10277.9	10191.5	10105.1
5°	10035.2	10022.8	10088.7	10096.9	10183.3	10208.0	10228.6	10195.7	10203.9	10014.6	9932.3
7.5°	9286.4	9282.2	9393.3	9488.0	9669.0	9837.7	9948.8	9915.9	9961.1	9841.8	9648.4
10°	8397.6	8492.3	8607.5	8702.1	9035.4	9249.3	9537.3	9566.1	9738.9	9710.1	9360.4
12.5°	7731.1	7772.2	7858.6	8130.2	8434.7	8788.5	9199.9	9237.0	9405.7	9488.0	9183.5
15°	7183.9	7220.9	7332.0	7533.6	7875.1	8294.8	8817.3	8911.9	9249.3	9278.1	8953.1
17.5°	6784.8	6813.6	6887.6	7089.2	7369.0	7908.0	8401.7	8570.4	9014.8	9154.7	8714.4
20°	6628.4	6566.7	6607.8	6735.4	7015.2	7430.7	8068.5	8216.6	8784.4	9060.1	8488.1
22.5°	6558.5	6505.0	6529.7	6521.4	6743.6	7039.9	7710.5	7866.9	8566.3	8949.0	8286.5
25°	6611.9	6611.9	6587.3	6566.7	6591.4	6784.8	7323.8	7566.5	8274.2	8854.3	8080.8
27.5°	6900.0	6788.9	6801.2	6714.8	6690.1	6690.1	7150.9	7295.0	8179.6	8800.8	7912.1
30°	7085.1	7138.6	7142.7	7015.2	6887.6	6657.2	6990.5	7130.4	8101.4	8866.7	7813.4
32.5°	7558.3	7533.6	7463.6	7439.0	7249.7	6990.5	7068.7	7163.3	8056.1	9014.8	7842.2
35°	8031.4	8019.1	8023.2	8010.9	7813.4	7430.7	7278.5	7406.0	8138.4	9274.0	7940.9
37.5°	8521.1	8554.0	8693.9	8693.9	8484.0	8068.5	7866.9	7829.8	8438.8	9697.8	8175.4
40°	9010.7	9093.0	9269.9	9549.7	9253.4	8866.7	8541.6	8484.0	8800.8	10265.6	8739.1
42.5°	9479.7	9615.5	9965.2	10380.8	10282.1	9895.3	9463.3	9397.4	9545.6	11109.1	9525.0
45°	10080.4	10195.7	10747.0	11384.7	11520.5	11179.0	10672.9	10619.4	10611.2	12343.4	10607.1
47.5°	10993.9	11117.3	11668.6	12310.5	12730.2	12783.7	12215.9	12158.3	11960.8	14009.8	12191.2
50°	12137.7	12339.3	12804.2	13553.1	14162.0	14733.9	14573.4	14404.8	14018.0	15947.7	14199.0
52.5°	12972.9	13219.8	13849.3	14808.0	15881.8	16791.1	17367.2	17367.2	16478.4	18074.9	16614.2
55°	13195.1	13343.2	14137.3	15523.9	17363.1	19663.0	20868.6	20778.1	19407.9	20313.1	19424.4
57.5°	12310.5	12503.9	13466.7	14919.1	18140.7	22349.8	24345.3	24365.9	22609.0	22913.5	22197.6
60°	9874.7	9936.4	11072.0	13014.1	17391.9	24514.0	29093.4	29171.6	26250.3	25229.9	23608.8
62.5°	6825.9	7023.4	7879.2	9582.6	14408.9	24271.2	33672.8	34059.6	29167.5	26451.9	23831.0
65°	4493.0	4612.3	5069.0	6105.9	10031.1	21037.3	35096.4	36289.6	31397.5	26521.9	22901.1
67.5°	3258.7	3279.2	3415.0	3949.9	6027.7	15128.9	32664.8	34347.6	32232.7	25937.6	20720.5
70°	2633.3	2649.7	2699.1	3040.6	3892.3	9467.4	26641.2	29278.6	29727.0	23168.6	16688.3
72.5°	2139.5	2160.1	2221.8	2542.7	3209.3	5266.5	19482.0	22695.4	24180.7	17140.9	11092.6
75°	1682.8	1699.3	1847.4	2164.2	3015.9	3616.6	12923.5	16071.1	16272.7	10018.7	5192.5
77.5°	1152.1	1180.9	1361.9	1835.1	2839.0	3164.0	8056.1	10294.4	9237.0	3921.1	1785.7
80°	732.4	773.5	880.5	1390.7	2509.8	3020.0	5011.4	6147.0	4044.5	1341.3	859.9
82.5°	432.0	473.2	580.1	901.1	1970.8	2802.0	3530.2	3847.0	1896.8	687.1	518.4
85°	238.6	267.4	349.7	543.1	1156.2	2489.3	2826.6	2760.8	1086.2	366.2	325.0
87.5°	78.2	90.5	127.5	218.1	477.3	1172.6	1695.2	1592.3	563.7	168.7	127.5
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°	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8	10055.8
2.5°	10047.5	10035.2	9850.0	9710.1	9471.5	9274.0	9195.8	9088.9	9084.7	9006.6	8986.0
5°	9804.8	9677.2	9393.3	9121.8	8698.0	8414.1	8154.9	7973.8	7899.8	7739.3	7702.3
7.5°	9492.1	9323.4	8887.2	8377.1	7879.2	7434.8	7031.6	6628.4	6402.1	6323.9	6237.5
10°	9167.0	8870.8	8224.8	7652.9	6957.6	6274.6	5640.9	5073.1	4764.6	4546.5	4451.9
12.5°	8907.8	8512.8	7689.9	6834.1	5916.6	5003.2	4266.7	3670.1	3320.4	3155.8	3081.7
15°	8615.7	8093.2	7105.7	6023.6	4879.8	3842.9	3122.9	2653.8	2513.9	2435.8	2423.4
17.5°	8307.1	7702.3	6472.1	5225.4	3867.6	2892.5	2427.5	2238.3	2176.6	2143.6	2127.2
20°	8019.1	7352.6	5822.0	4336.6	3028.2	2320.6	2102.5	2003.7	1999.6	2016.1	2012.0
22.5°	7611.8	6895.8	5180.1	3513.8	2419.3	2020.2	1880.3	1855.6	1880.3	1900.9	1909.1
25°	7381.4	6521.4	4464.2	2789.6	1999.6	1793.9	1748.6	1740.4	1777.4	1802.1	1798.0
27.5°	7142.7	6134.7	3797.7	2234.2	1752.8	1633.4	1625.2	1633.4	1670.5	1707.5	1703.4
30°	6957.6	5826.1	3172.3	1868.0	1563.5	1518.2	1510.0	1518.2	1538.8	1542.9	1542.9
32.5°	6805.3	5459.9	2641.5	1621.1	1448.3	1411.3	1419.5	1415.4	1419.5	1423.6	1427.7
35°	6714.8	5241.8	2205.4	1468.9	1353.7	1324.9	1320.7	1308.4	1312.5	1316.6	1312.5
37.5°	6908.2	5134.9	1859.7	1361.9	1287.8	1263.1	1254.9	1246.7	1234.3	1234.3	1234.3
40°	7200.3	5077.3	1649.9	1291.9	1238.5	1209.7	1185.0	1176.7	1176.7	1180.9	1185.0
42.5°	7780.5	5171.9	1505.9	1238.5	1176.7	1143.8	1119.1	1123.2	1135.6	1147.9	1139.7
45°	8619.8	5459.9	1440.1	1197.3	1139.7	1094.4	1078.0	1073.9	1086.2	1106.8	1123.2
47.5°	9718.4	5908.4	1415.4	1160.3	1115.0	1053.3	1032.7	1045.1	1061.5	1090.3	1078.0
50°	11516.4	6916.4	1435.9	1127.4	1078.0	1032.7	1008.0	995.7	1008.0	1028.6	1036.8
52.5°	13865.8	8747.4	1514.1	1110.9	1053.3	1016.3	975.1	954.6	966.9	983.4	983.4
55°	16675.9	11249.0	1732.2	1090.3	1012.2	991.6	946.3	905.2	913.4	913.4	909.3
57.5°	19152.8	13137.5	1991.4	1061.5	987.5	958.7	901.1	851.7	843.5	847.6	851.7
60°	20263.8	13639.5	2114.8	1053.3	987.5	917.5	839.4	790.0	777.6	769.4	769.4
62.5°	20070.4	12771.3	1863.9	1016.3	1012.2	884.6	781.7	728.3	711.8	695.3	699.5
65°	18901.9	11532.9	1468.9	966.9	1016.3	864.0	724.1	670.7	641.9	621.3	617.2
67.5°	16766.5	9845.9	1164.4	929.9	975.1	827.0	674.8	613.1	588.4	567.8	559.6
70°	13116.9	7718.7	1012.2	880.5	876.4	736.5	617.2	563.7	526.7	502.0	502.0
72.5°	8504.6	4879.8	868.2	781.7	757.1	617.2	534.9	502.0	473.2	452.6	452.6
75°	3851.1	2267.1	699.5	654.2	617.2	493.7	452.6	436.1	411.4	390.9	390.9
77.5°	1382.5	966.9	522.5	514.3	460.8	382.6	366.2	353.8	337.4	316.8	316.8
80°	773.5	613.1	390.9	374.4	320.9	283.9	263.3	263.3	255.1	242.8	238.6
82.5°	489.6	399.1	288.0	251.0	209.8	189.3	181.0	176.9	172.8	156.3	152.2
85°	308.6	271.6	189.3	148.1	123.4	94.6	90.5	86.4	78.2	69.9	69.9
87.5°	139.9	156.3	74.1	45.3	32.9	20.6	12.3	4.1	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)