

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: P480059

Luminaire Tested: **IFLD-L-SA8B-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480059
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-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

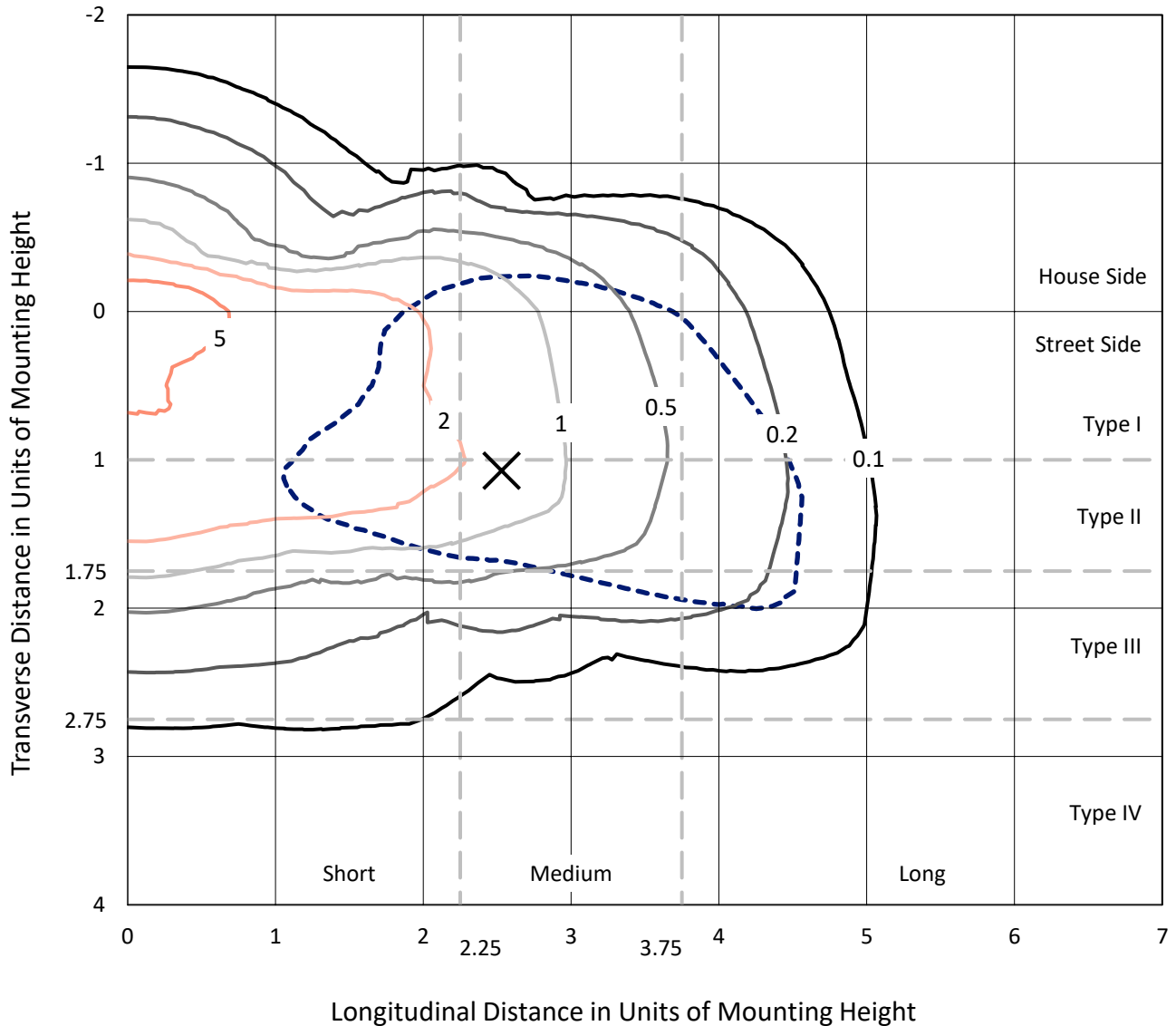
Lumens per Lamp: N/A
Luminaire Lumens: 36951.2 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 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

REPORT NUMBER: P480059
 CATALOG NUMBER: IFLD-L-SA8B-730-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

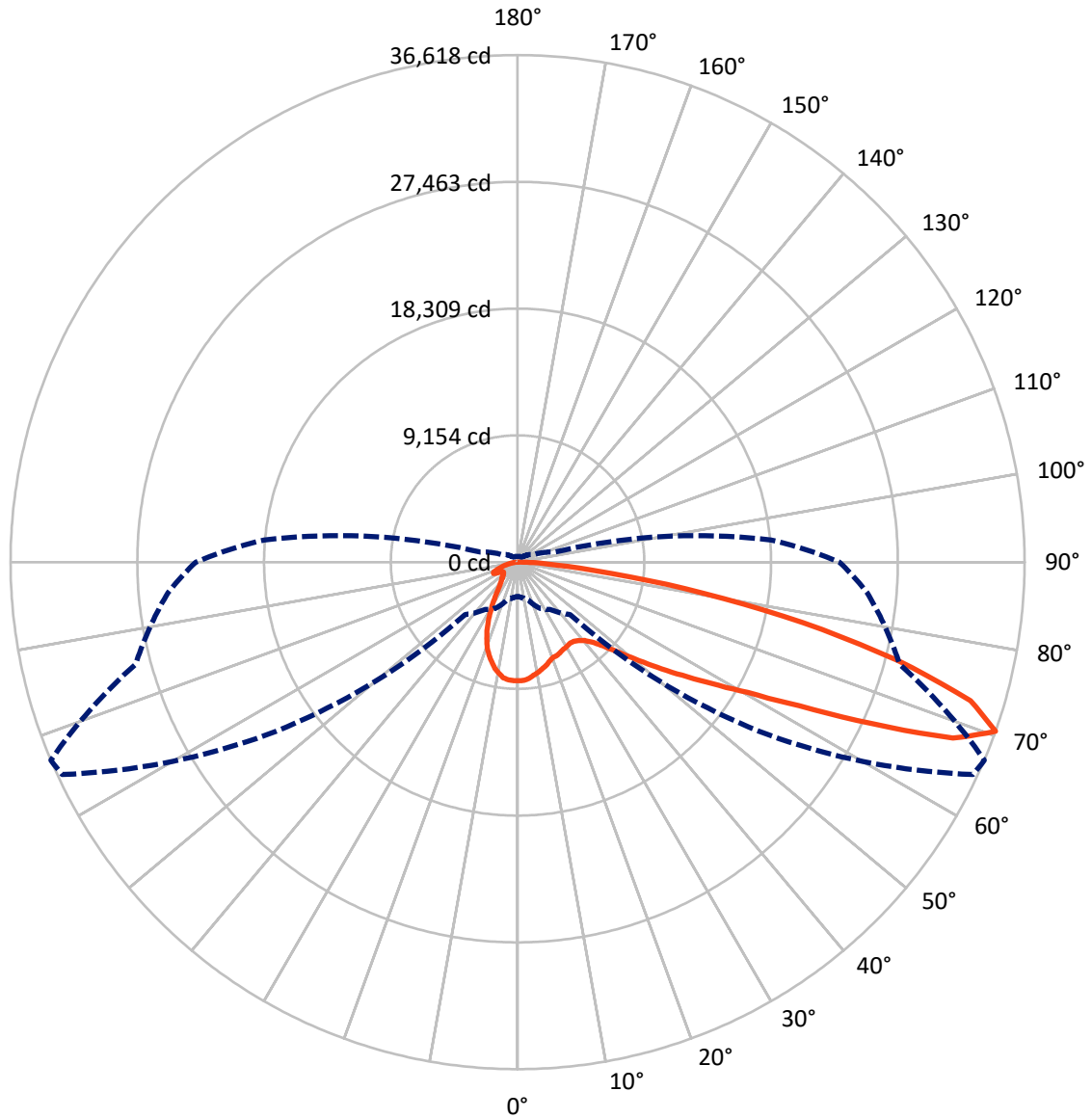
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P480059
CATALOG NUMBER: IFLD-L-SA8B-730-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P480059

CATALOG NUMBER: IFLD-L-SA8B-730-U-SL2

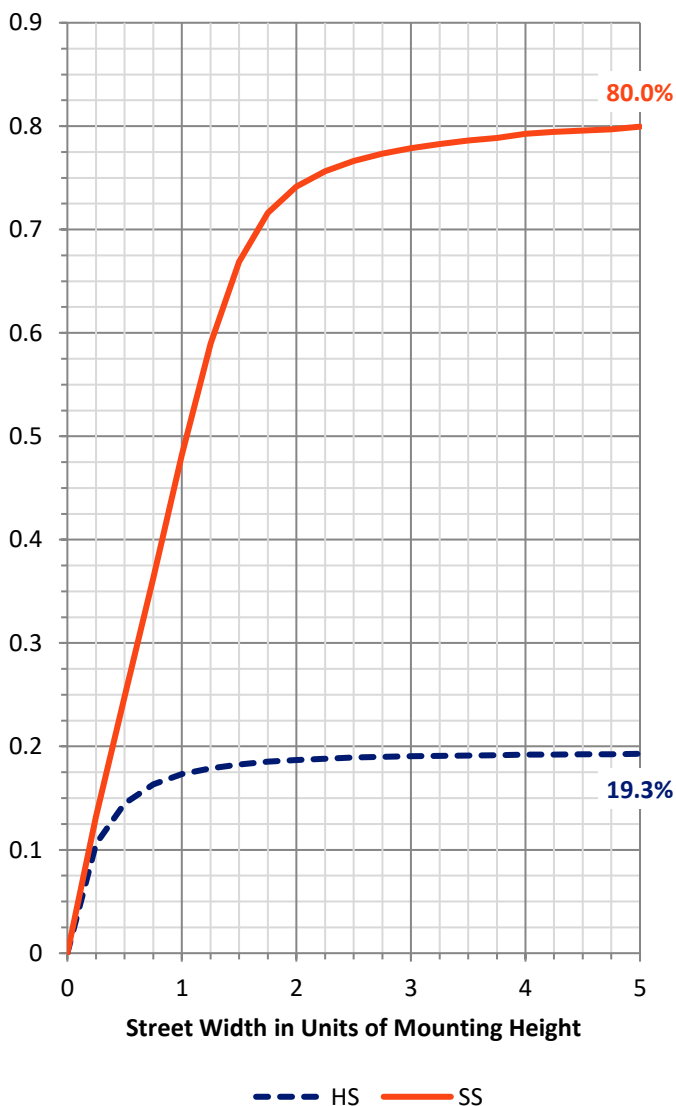
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7196.6	0.0	7196.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	29754.6	0.0	29754.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	36951.2	0.0	36951.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.4	2.0
10°-20°	1787.5	4.8
20°-30°	2413.9	6.5
30°-40°	3230.0	8.7
40°-50°	4749.7	12.9
50°-60°	7403.5	20.0
60°-70°	9119.9	24.7
70°-80°	6444.1	17.4
80°-90°	1056.2	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°	36951.2	100.0
0°-180°	36951.2	100.0

Coefficient of Utilization



REPORT NUMBER: P480059

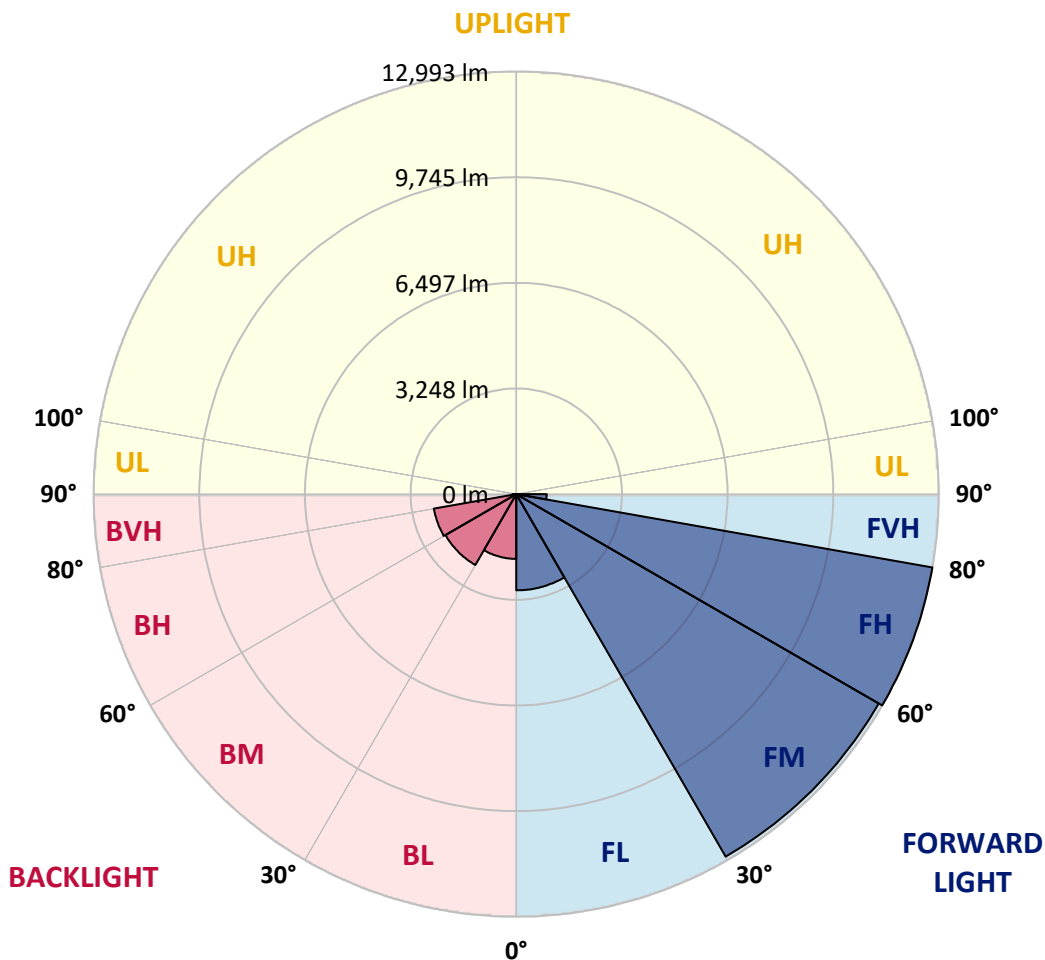
CATALOG NUMBER: IFLD-L-SA8B-730-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2957.7	8.0			
FM	(30°-60°)	12869.3	34.8			
FH	(60°-80°)	12993.3	35.2			G5
FVH	(80°-90°)	934.4	2.5			G5
BL	(0°-30°)	1990.1	5.4	B3/2500		
BM	(30°-60°)	2513.9	6.8	B3/5000		
BH	(60°-80°)	2570.7	7.0	B4/5000		G4/5000
BVH	(80°-90°)	121.8	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





REPORT NUMBER: P480059
 CATALOG NUMBER: IFLD-L-SA8B-730-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1
2.5°	7965.0	8055.0	8087.7	8136.8	8263.6	8357.7	8415.0	8480.4	8558.2	8623.6	8664.5
5°	7408.6	7457.7	7535.4	7588.6	7748.2	8001.8	8173.6	8451.8	8443.6	8545.9	8701.4
7.5°	6868.6	6917.7	6954.5	7060.9	7290.0	7519.1	7834.1	8284.1	8251.4	8488.6	8730.0
10°	6533.2	6496.4	6508.6	6688.6	6868.6	7126.4	7523.2	7981.4	8100.0	8468.2	8811.8
12.5°	6218.2	6177.3	6275.4	6390.0	6610.9	6844.1	7318.6	7731.8	7911.8	8394.5	8848.6
15°	6021.8	5993.2	6115.9	6165.0	6426.8	6705.0	7040.4	7543.6	7740.0	8304.5	8791.4
17.5°	5911.4	5935.9	5980.9	6087.3	6255.0	6492.3	6860.4	7416.8	7502.7	8194.1	8779.1
20°	5931.8	5960.4	5964.5	6009.5	6124.1	6308.2	6684.5	7281.8	7339.1	8173.6	8811.8
22.5°	6095.4	6054.5	6070.9	6042.3	6075.0	6218.2	6549.5	7101.8	7322.7	8001.8	8742.3
25°	6340.9	6283.6	6275.4	6177.3	6115.9	6156.8	6525.0	7056.8	7200.0	7948.6	8738.2
27.5°	6774.5	6688.6	6688.6	6541.4	6291.8	6226.4	6455.4	6983.2	7110.0	7899.5	8644.1
30°	7191.8	7191.8	7195.9	6987.3	6709.1	6385.9	6484.1	6954.5	7036.4	7752.3	8517.3
32.5°	7699.1	7686.8	7666.4	7564.1	7134.5	6651.8	6623.2	6917.7	6958.6	7703.2	8480.4
35°	8194.1	8161.4	8320.9	8230.9	7793.2	7171.4	6766.4	6934.1	7024.1	7629.5	8365.9
37.5°	8566.4	8586.8	8918.2	8975.4	8599.1	7760.4	7171.4	7097.7	7183.6	7735.9	8365.9
40°	9049.1	9130.9	9441.8	9634.1	9405.0	8537.7	7813.6	7371.8	7433.2	7973.2	8545.9
42.5°	9683.2	9752.7	10149.5	10399.1	10333.6	9527.7	8447.7	7944.5	7895.4	8370.0	8815.9
45°	10521.8	10534.1	10935.0	11278.6	11413.6	10562.7	9454.1	8668.6	8627.7	9053.2	9310.9
47.5°	11520.0	11507.7	11757.3	12125.4	12489.5	11798.2	10611.8	9769.1	9621.8	10030.9	10133.2
50°	12485.4	12432.3	12489.5	12960.0	13659.5	13344.5	12019.1	11115.0	10967.7	11192.7	11368.6
52.5°	13017.3	13082.7	12927.3	13549.1	14903.2	15173.2	13884.5	12722.7	12595.9	12706.4	13013.2
55°	12645.0	12780.0	12677.7	13266.8	15447.3	17402.7	16298.2	14584.1	14420.4	14379.5	14882.7
57.5°	11061.8	11307.3	11327.7	12260.4	15259.1	19129.1	19693.6	16780.9	16535.4	16118.2	16637.7
60°	8492.7	8738.2	8926.4	10030.9	13647.3	20160.0	23629.1	19906.3	19096.3	18016.3	18327.3
62.5°	5952.3	6120.0	6308.2	6987.3	10521.8	19554.5	27032.7	24308.2	22815.0	20016.8	20405.4
65°	4336.4	4467.3	4659.5	5060.4	6463.6	16179.5	28611.8	29536.3	28120.9	22561.3	22512.2
67.5°	3264.5	3346.4	3600.0	4242.3	4479.5	9994.1	26975.4	35059.1	33913.6	25388.2	24205.9
70°	2470.9	2540.5	2777.7	3657.3	4185.0	5359.1	21280.9	36290.4	36617.7	28558.6	25343.2
72.5°	1701.8	1779.5	2045.5	3047.7	3984.5	4250.5	13356.8	32968.6	34208.1	29863.6	24124.1
75°	1043.2	1096.4	1251.8	2311.4	3955.9	4156.4	7351.4	27016.3	28329.5	27593.2	21105.0
77.5°	736.4	732.3	760.9	1354.1	3428.2	4180.9	4532.7	19795.9	21072.3	20335.9	14322.3
80°	535.9	540.0	568.6	810.0	2327.7	4250.5	3571.4	13258.6	13639.1	10603.6	5649.5
82.5°	323.2	339.5	409.1	548.2	1399.1	3837.3	3301.4	7367.7	6893.2	3403.6	1554.5
85°	171.8	171.8	241.4	347.7	744.5	2863.6	3178.6	3505.9	2937.3	1055.5	576.8
87.5°	40.9	40.9	69.5	139.1	298.6	1370.5	2168.2	1395.0	1116.8	355.9	237.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480059
 CATALOG NUMBER: IFLD-L-SA8B-730-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1	8554.1
2.5°	8648.2	8599.1	8660.4	8537.7	8439.5	8443.6	8292.3	8284.1	8263.6	8157.3	8194.1
5°	8746.4	8705.4	8635.9	8500.9	8284.1	8067.3	7936.4	7768.6	7699.1	7662.3	7678.6
7.5°	8840.4	8766.8	8566.4	8378.2	8042.7	7633.6	7396.4	7171.4	6885.0	6852.3	6795.0
10°	8865.0	8709.5	8451.8	8050.9	7605.0	7150.9	6610.9	6193.6	5972.7	5800.9	5735.4
12.5°	8828.2	8762.7	8267.7	7752.3	7077.3	6365.4	5735.4	5146.4	4737.3	4524.5	4467.3
15°	8824.1	8709.5	8063.2	7298.2	6435.0	5506.4	4610.4	3902.7	3473.2	3297.3	3297.3
17.5°	8828.2	8554.1	7821.8	6840.0	5678.2	4422.3	3436.4	2855.5	2618.2	2593.6	2614.1
20°	8746.4	8439.5	7568.2	6300.0	4729.1	3321.8	2495.5	2258.2	2258.2	2290.9	2303.2
22.5°	8672.7	8267.7	7167.3	5633.2	3763.6	2405.5	2029.1	1959.5	2037.3	2094.5	2119.1
25°	8570.4	8124.5	6758.2	4941.8	2863.6	1939.1	1763.2	1779.5	1853.2	1955.5	1947.3
27.5°	8423.2	7875.0	6271.4	4140.0	2131.4	1673.2	1628.2	1636.4	1714.1	1759.1	1750.9
30°	8255.4	7621.4	5821.4	3342.3	1689.5	1534.1	1530.0	1550.5	1562.7	1587.3	1583.2
32.5°	8042.7	7285.9	5342.7	2597.7	1521.8	1456.4	1440.0	1427.7	1440.0	1435.9	1423.6
35°	7891.4	7105.9	4855.9	1980.0	1427.7	1386.8	1374.5	1354.1	1337.7	1313.2	1309.1
37.5°	7850.4	6925.9	4344.5	1615.9	1354.1	1333.6	1292.7	1255.9	1235.5	1223.2	1215.0
40°	7825.9	6807.3	3845.5	1419.5	1292.7	1272.3	1223.2	1174.1	1153.6	1141.4	1145.5
42.5°	7911.8	6741.8	3338.2	1321.4	1239.5	1202.7	1149.5	1092.3	1088.2	1080.0	1092.3
45°	8214.5	6823.6	2867.7	1251.8	1186.4	1125.0	1055.5	1026.8	1022.7	1014.5	1022.7
47.5°	8901.8	7028.2	2466.8	1206.8	1129.1	1075.9	1002.3	961.4	957.3	953.2	953.2
50°	9850.9	7658.2	2131.4	1153.6	1092.3	1018.6	949.1	904.1	895.9	879.5	879.5
52.5°	11340.0	8717.7	1930.9	1125.0	1026.8	965.5	891.8	842.7	822.3	805.9	805.9
55°	13017.3	10030.9	1894.1	1075.9	957.3	900.0	834.5	785.5	765.0	744.5	736.4
57.5°	14927.7	11769.5	2155.9	1043.2	908.2	834.5	760.9	715.9	699.5	679.1	670.9
60°	16707.3	13504.1	2970.0	994.1	863.2	773.2	699.5	654.5	634.1	613.6	613.6
62.5°	18765.0	15651.8	4348.6	994.1	822.3	707.7	634.1	601.4	589.1	568.6	564.5
65°	21199.1	17873.2	5355.0	1055.5	810.0	650.5	572.7	540.0	527.7	515.5	511.4
67.5°	23052.2	19149.5	4606.4	1219.1	863.2	601.4	511.4	490.9	482.7	470.5	462.3
70°	23248.6	18372.3	2777.7	1317.3	916.4	552.3	458.2	437.7	437.7	425.5	417.3
72.5°	21485.4	16302.3	1869.5	1174.1	830.5	495.0	405.0	388.6	380.5	372.3	368.2
75°	17979.5	13827.3	1476.8	936.8	638.2	409.1	351.8	335.5	323.2	319.1	310.9
77.5°	12076.4	8987.7	1092.3	732.3	470.5	331.4	294.5	278.2	265.9	261.8	249.5
80°	4639.1	3424.1	703.6	531.8	331.4	261.8	233.2	216.8	208.6	196.4	188.2
82.5°	1366.4	1108.6	392.7	327.3	212.7	180.0	167.7	155.5	143.2	130.9	126.8
85°	564.5	507.3	241.4	171.8	130.9	106.4	98.2	85.9	73.6	65.5	57.3
87.5°	261.8	216.8	110.5	65.5	45.0	24.5	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)