

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: P480098

Luminaire Tested: **IFLD-L-SA8B-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480098
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

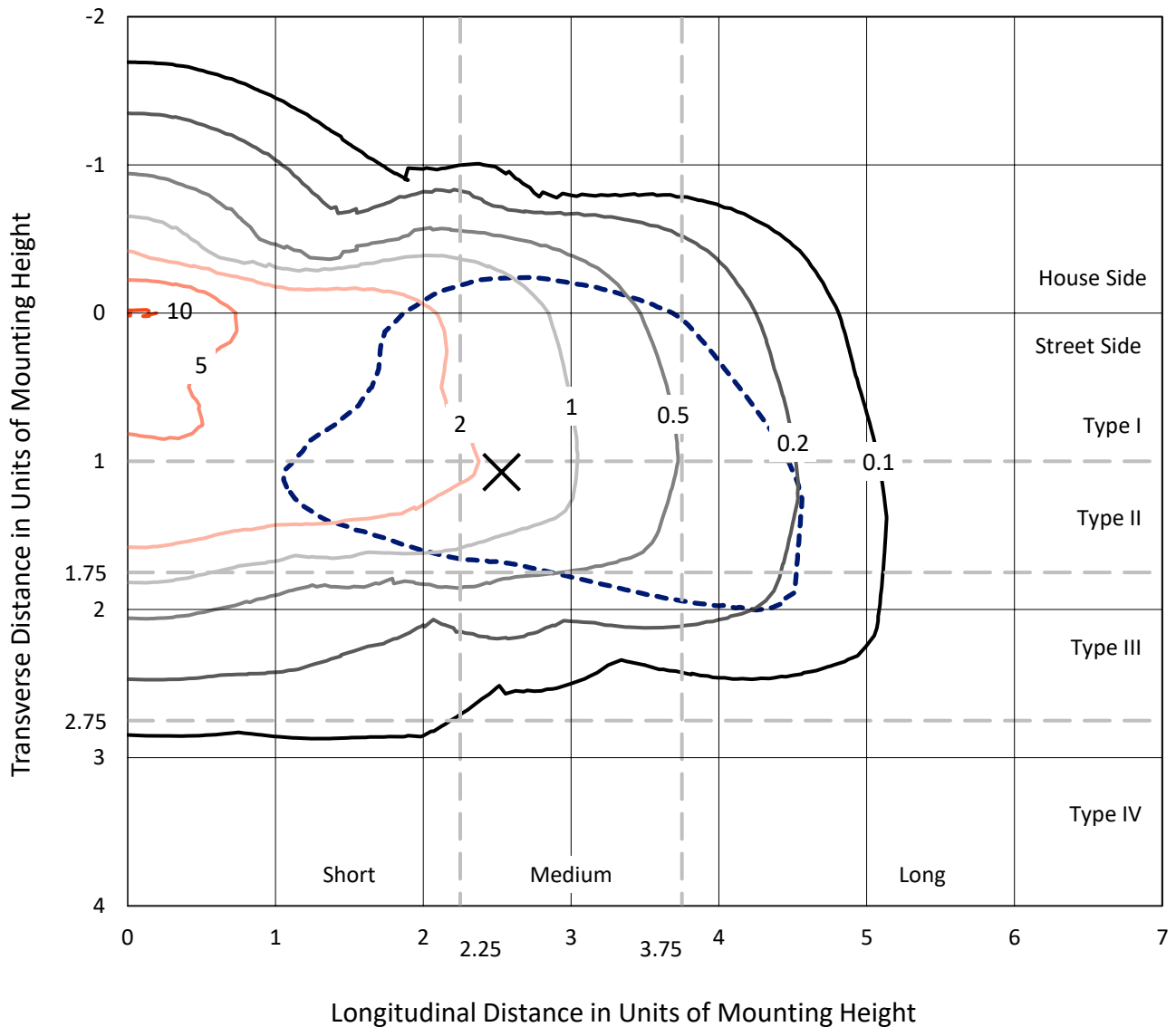
Lumens per Lamp: N/A
Luminaire Lumens: 40023 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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

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Iso-Footcandle Lines of Horizontal Illumination

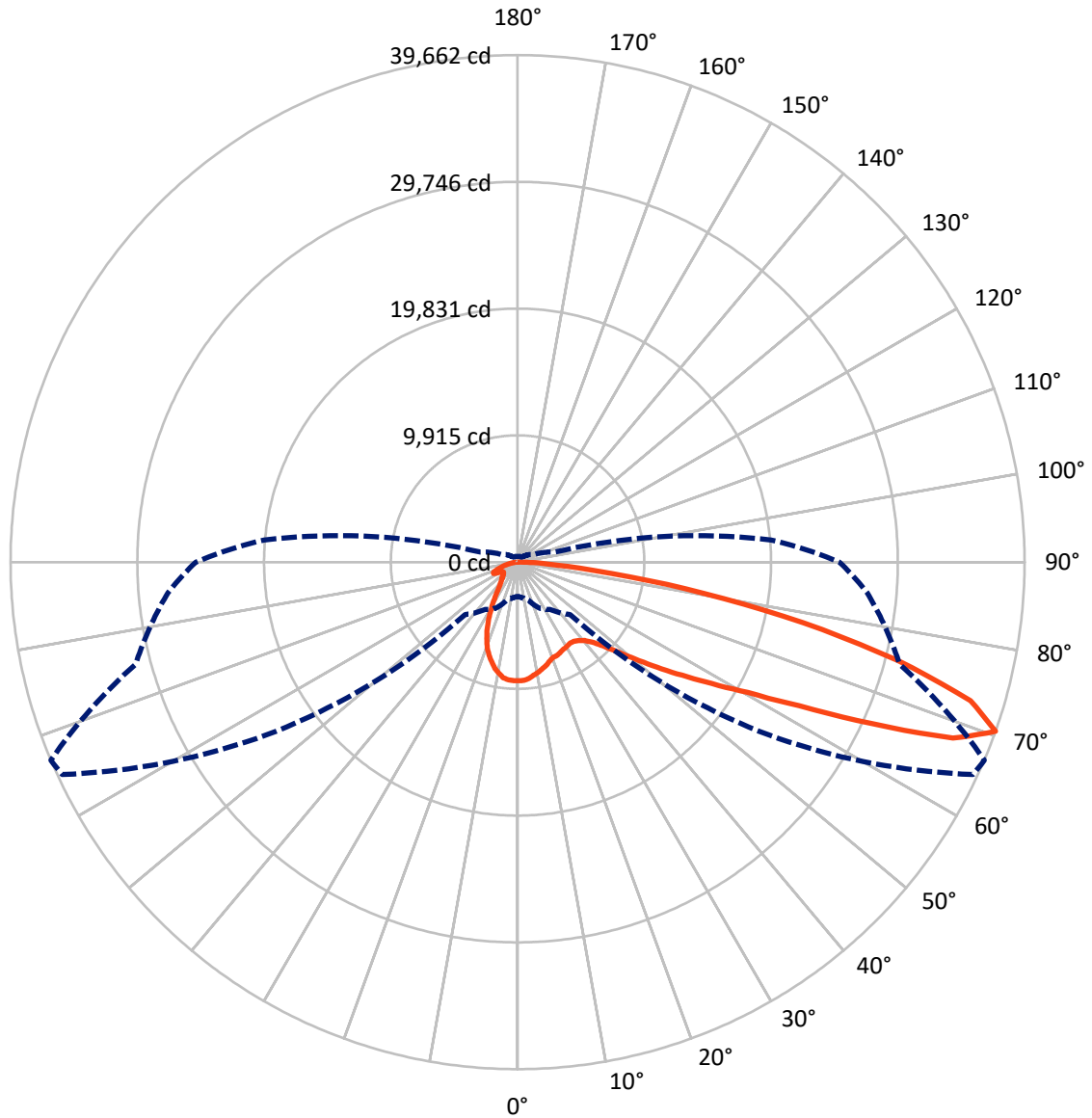
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.4 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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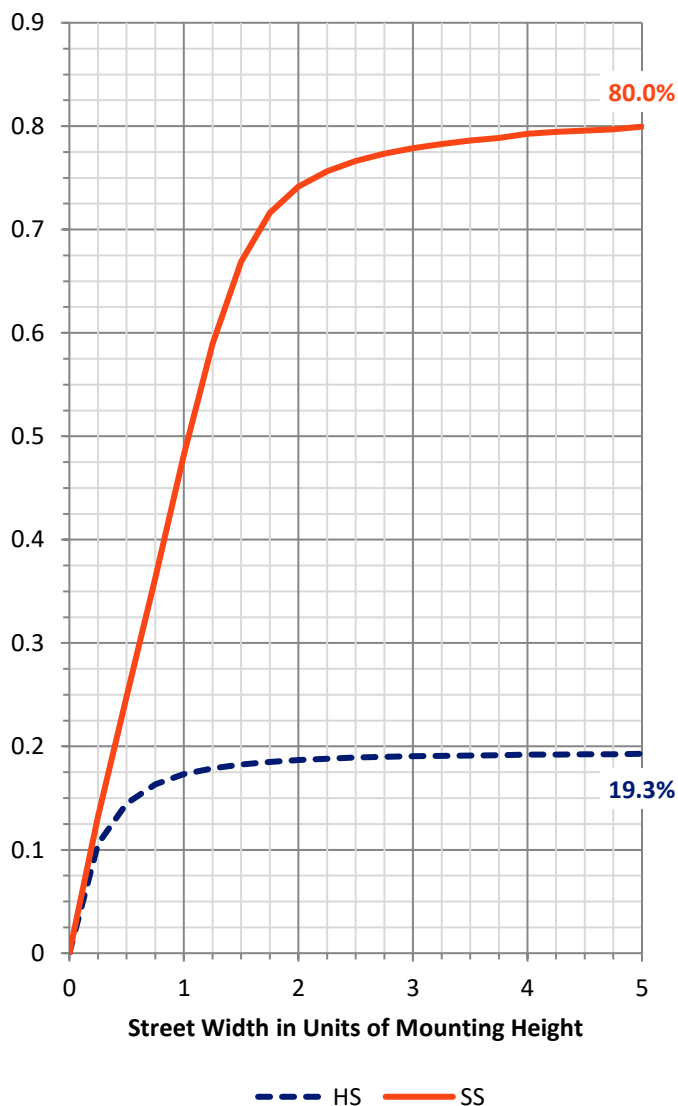
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7794.9	0.0	7794.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	32228.1	0.0	32228.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	40023.0	0.0	40023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.4	2.0
10°-20°	1936.1	4.8
20°-30°	2614.6	6.5
30°-40°	3498.5	8.7
40°-50°	5144.5	12.9
50°-60°	8019.0	20.0
60°-70°	9878.1	24.7
70°-80°	6979.8	17.4
80°-90°	1144.0	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°	40023.0	100.0
0°-180°	40023.0	100.0

Coefficient of Utilization

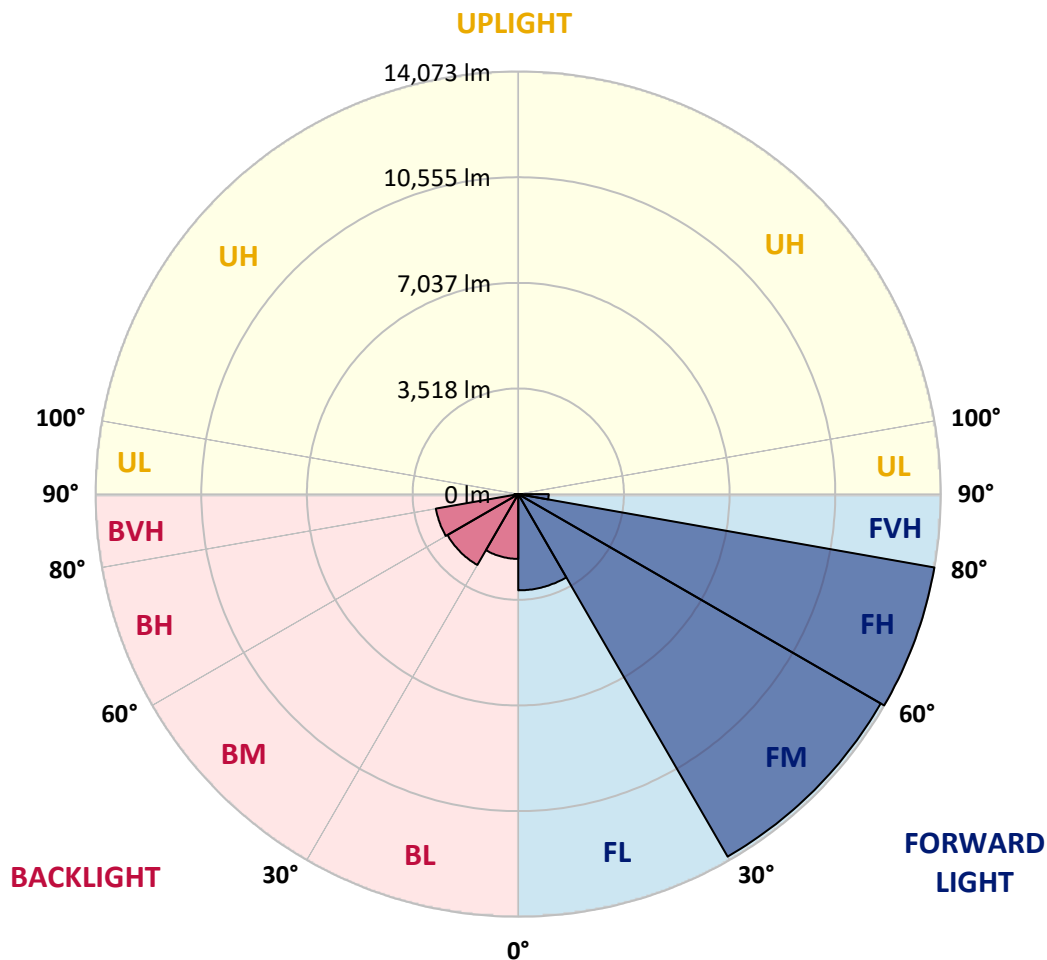


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3203.5	8.0			
FM (30°-60°)	13939.1	34.8			
FH (60°-80°)	14073.4	35.2			G5
FVH (80°-90°)	1012.0	2.5			G5
BL (0°-30°)	2155.5	5.4	B3/2500		
BM (30°-60°)	2722.9	6.8	B3/5000		
BH (60°-80°)	2784.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	132.0	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°	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2
2.5°	8627.1	8724.6	8760.1	8813.2	8950.6	9052.5	9114.5	9185.4	9269.6	9340.5	9384.8
5°	8024.5	8077.7	8161.9	8219.5	8392.3	8667.0	8853.1	9154.4	9145.6	9256.3	9424.7
7.5°	7439.6	7492.8	7532.7	7647.9	7896.0	8144.2	8485.3	8972.8	8937.3	9194.3	9455.7
10°	7076.3	7036.4	7049.7	7244.7	7439.6	7718.8	8148.6	8644.9	8773.4	9172.1	9544.4
12.5°	6735.1	6690.8	6797.1	6921.2	7160.5	7413.0	7927.0	8374.6	8569.5	9092.4	9584.2
15°	6522.4	6491.4	6624.3	6677.5	6961.1	7262.4	7625.7	8170.7	8383.4	8994.9	9522.2
17.5°	6402.8	6429.4	6478.1	6593.3	6775.0	7032.0	7430.8	8033.4	8126.4	8875.3	9508.9
20°	6424.9	6456.0	6460.4	6509.1	6633.2	6832.6	7240.2	7887.2	7949.2	8853.1	9544.4
22.5°	6602.2	6557.9	6575.6	6544.6	6580.0	6735.1	7094.0	7692.2	7931.5	8667.0	9469.0
25°	6868.0	6806.0	6797.1	6690.8	6624.3	6668.6	7067.4	7643.5	7798.5	8609.4	9464.6
27.5°	7337.7	7244.7	7244.7	7085.2	6814.9	6744.0	6992.1	7563.7	7701.1	8556.2	9362.7
30°	7789.7	7789.7	7794.1	7568.1	7266.8	6916.8	7023.1	7532.7	7621.3	8396.7	9225.3
32.5°	8339.1	8325.8	8303.7	8192.9	7727.6	7204.8	7173.8	7492.8	7537.1	8343.6	9185.4
35°	8875.3	8839.8	9012.6	8915.2	8441.0	7767.5	7328.9	7510.5	7608.0	8263.8	9061.4
37.5°	9278.5	9300.6	9659.6	9721.6	9313.9	8405.6	7767.5	7687.8	7780.8	8379.0	9061.4
40°	9801.3	9890.0	10226.7	10435.0	10186.8	9247.5	8463.2	7984.6	8051.1	8636.0	9256.3
42.5°	10488.2	10563.5	10993.3	11263.6	11192.7	10319.8	9150.0	8605.0	8551.8	9065.8	9548.8
45°	11396.5	11409.8	11844.0	12216.2	12362.5	11440.8	10240.0	9389.3	9345.0	9805.8	10084.9
47.5°	12477.7	12464.4	12734.7	13133.5	13527.8	12779.0	11494.0	10581.2	10421.7	10864.8	10975.6
50°	13523.4	13465.8	13527.8	14037.4	14795.1	14453.9	13018.2	12039.0	11879.5	12123.2	12313.7
52.5°	14099.4	14170.3	14001.9	14675.4	16142.1	16434.5	15038.8	13780.4	13643.0	13762.7	14095.0
55°	13696.2	13842.4	13731.6	14369.7	16731.4	18849.4	17653.1	15796.5	15619.2	15574.9	16119.9
57.5°	11981.4	12247.3	12269.4	13279.7	16527.6	20719.3	21330.8	18175.9	17910.1	17458.1	18020.8
60°	9198.7	9464.6	9668.4	10864.8	14781.8	21835.9	25593.4	21561.2	20683.9	19514.1	19850.8
62.5°	6447.1	6628.8	6832.6	7568.1	11396.5	21180.1	29280.0	26328.9	24711.6	21680.8	22101.8
65°	4696.8	4838.6	5046.9	5481.1	7001.0	17524.6	30990.3	31991.7	30458.6	24436.9	24383.7
67.5°	3535.9	3624.5	3899.3	4594.9	4851.9	10824.9	29217.9	37973.6	36732.9	27498.7	26218.2
70°	2676.3	2751.6	3008.6	3961.3	4532.9	5804.6	23050.0	39307.3	39661.8	30932.7	27450.0
72.5°	1843.3	1927.5	2215.5	3301.1	4315.8	4603.8	14467.2	35709.3	37051.9	32346.2	26129.5
75°	1129.9	1187.5	1355.9	2503.5	4284.8	4501.9	7962.5	29262.3	30684.6	29887.0	22859.5
77.5°	797.6	793.1	824.2	1466.7	3713.2	4528.5	4909.5	21441.6	22824.0	22026.5	15512.9
80°	580.5	584.9	615.9	877.3	2521.2	4603.8	3868.3	14360.8	14772.9	11485.1	6119.2
82.5°	350.0	367.8	443.1	593.8	1515.4	4156.3	3575.8	7980.2	7466.2	3686.6	1683.8
85°	186.1	186.1	261.4	376.6	806.4	3101.7	3442.9	3797.4	3181.5	1143.2	624.8
87.5°	44.3	44.3	75.3	150.7	323.5	1484.4	2348.4	1511.0	1209.7	385.5	257.0
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°	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2	9265.2
2.5°	9367.1	9313.9	9380.4	9247.5	9141.1	9145.6	8981.6	8972.8	8950.6	8835.4	8875.3
5°	9473.5	9429.1	9353.8	9207.6	8972.8	8737.9	8596.1	8414.4	8339.1	8299.2	8317.0
7.5°	9575.4	9495.6	9278.5	9074.7	8711.3	8268.2	8011.2	7767.5	7457.4	7421.9	7359.9
10°	9602.0	9433.6	9154.4	8720.2	8237.2	7745.4	7160.5	6708.5	6469.2	6283.1	6212.2
12.5°	9562.1	9491.2	8955.0	8396.7	7665.6	6894.6	6212.2	5574.2	5131.1	4900.7	4838.6
15°	9557.6	9433.6	8733.5	7904.9	6969.9	5964.1	4993.7	4227.2	3761.9	3571.4	3571.4
17.5°	9562.1	9265.2	8472.1	7408.6	6150.2	4789.9	3722.0	3092.8	2835.8	2809.2	2831.4
20°	9473.5	9141.1	8197.3	6823.7	5122.2	3598.0	2702.9	2445.9	2445.9	2481.4	2494.6
22.5°	9393.7	8955.0	7763.1	6101.5	4076.5	2605.4	2197.8	2122.4	2206.6	2268.7	2295.3
25°	9282.9	8799.9	7320.0	5352.6	3101.7	2100.3	1909.8	1927.5	2007.2	2118.0	2109.2
27.5°	9123.4	8529.7	6792.7	4484.2	2308.5	1812.3	1763.5	1772.4	1856.6	1905.3	1896.5
30°	8941.7	8254.9	6305.3	3620.1	1830.0	1661.6	1657.2	1679.3	1692.6	1719.2	1714.8
32.5°	8711.3	7891.6	5786.9	2813.7	1648.3	1577.4	1559.7	1546.4	1559.7	1555.3	1542.0
35°	8547.4	7696.6	5259.6	2144.6	1546.4	1502.1	1488.8	1466.7	1448.9	1422.3	1417.9
37.5°	8503.1	7501.7	4705.7	1750.2	1466.7	1444.5	1400.2	1360.3	1338.2	1324.9	1316.0
40°	8476.5	7373.2	4165.1	1537.6	1400.2	1378.0	1324.9	1271.7	1249.5	1236.2	1240.7
42.5°	8569.5	7302.3	3615.7	1431.2	1342.6	1302.7	1245.1	1183.1	1178.6	1169.8	1183.1
45°	8897.4	7390.9	3106.1	1355.9	1285.0	1218.5	1143.2	1112.2	1107.7	1098.9	1107.7
47.5°	9641.8	7612.4	2671.9	1307.1	1223.0	1165.4	1085.6	1041.3	1036.9	1032.4	1032.4
50°	10669.8	8294.8	2308.5	1249.5	1183.1	1103.3	1028.0	979.2	970.4	952.7	952.7
52.5°	12282.7	9442.4	2091.4	1218.5	1112.2	1045.7	966.0	912.8	890.6	872.9	872.9
55°	14099.4	10864.8	2051.5	1165.4	1036.9	974.8	903.9	850.8	828.6	806.4	797.6
57.5°	16168.7	12748.0	2335.1	1129.9	983.7	903.9	824.2	775.4	757.7	735.5	726.7
60°	18096.2	14626.7	3216.9	1076.7	934.9	837.5	757.7	709.0	686.8	664.6	664.6
62.5°	20325.0	16953.0	4710.1	1076.7	890.6	766.6	686.8	651.4	638.1	615.9	611.5
65°	22961.4	19359.0	5800.2	1143.2	877.3	704.5	620.3	584.9	571.6	558.3	553.9
67.5°	24968.6	20741.5	4989.3	1320.4	934.9	651.4	553.9	531.7	522.9	509.6	500.7
70°	25181.3	19899.6	3008.6	1426.8	992.5	598.2	496.3	474.1	474.1	460.8	452.0
72.5°	23271.6	17657.5	2025.0	1271.7	899.5	536.1	438.7	420.9	412.1	403.2	398.8
75°	19474.2	14976.7	1599.6	1014.7	691.2	443.1	381.1	363.3	350.0	345.6	336.8
77.5°	13080.3	9734.9	1183.1	793.1	509.6	358.9	319.0	301.3	288.0	283.6	270.3
80°	5024.7	3708.7	762.1	576.0	358.9	283.6	252.6	234.8	226.0	212.7	203.8
82.5°	1480.0	1200.8	425.4	354.5	230.4	195.0	181.7	168.4	155.1	141.8	137.4
85°	611.5	549.4	261.4	186.1	141.8	115.2	106.3	93.1	79.8	70.9	62.0
87.5°	283.6	234.8	119.6	70.9	48.7	26.6	13.3	4.4	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)