

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: P480242

Luminaire Tested: **IFLD-S-SA6E-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480242
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

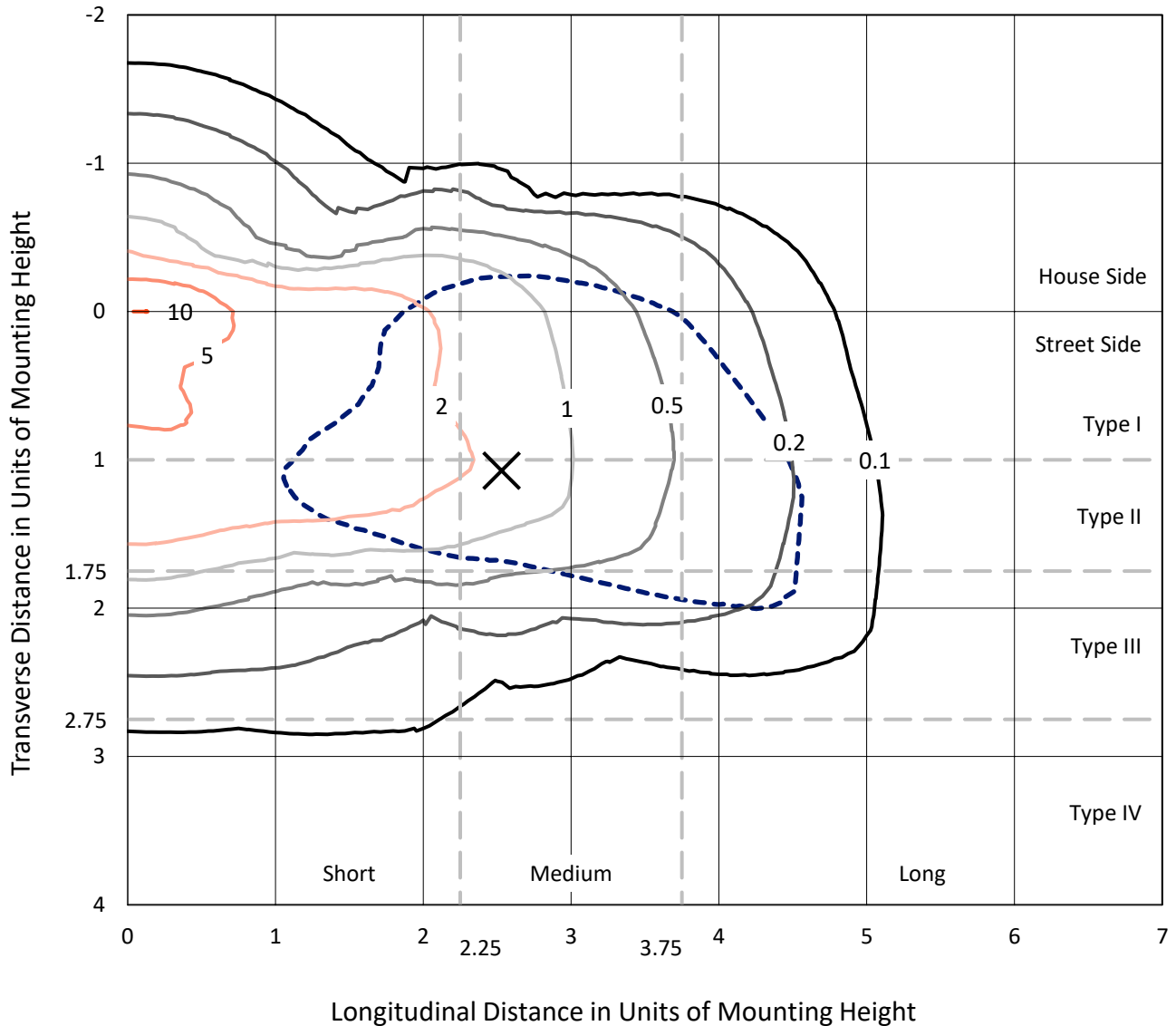
Lumens per Lamp: N/A
Luminaire Lumens: 38781.9 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 464.2
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: P480242
 CATALOG NUMBER: IFLD-S-SA6E-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

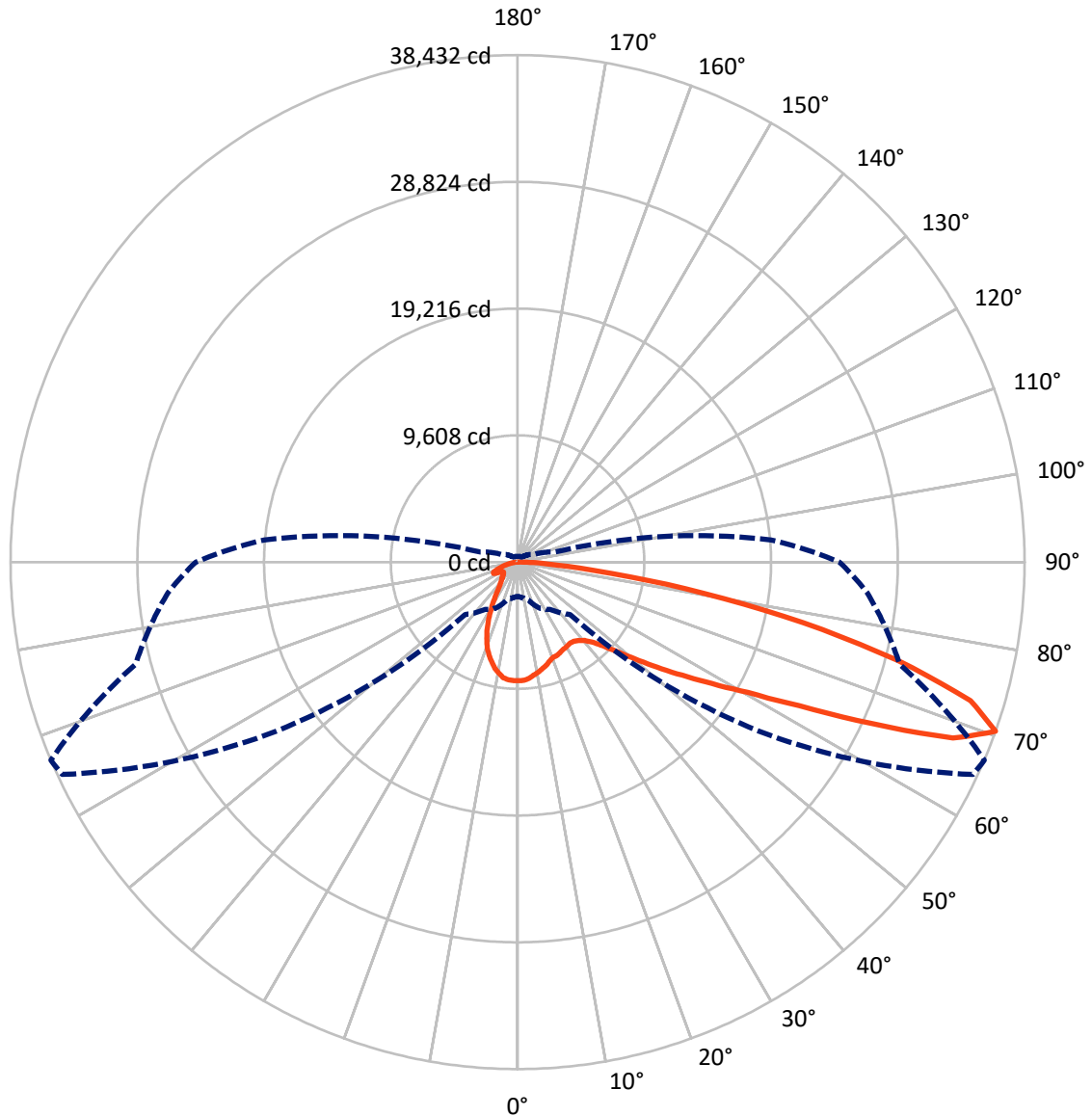
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P480242
CATALOG NUMBER: IFLD-S-SA6E-827-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480242

CATALOG NUMBER: IFLD-S-SA6E-827-U-SL2

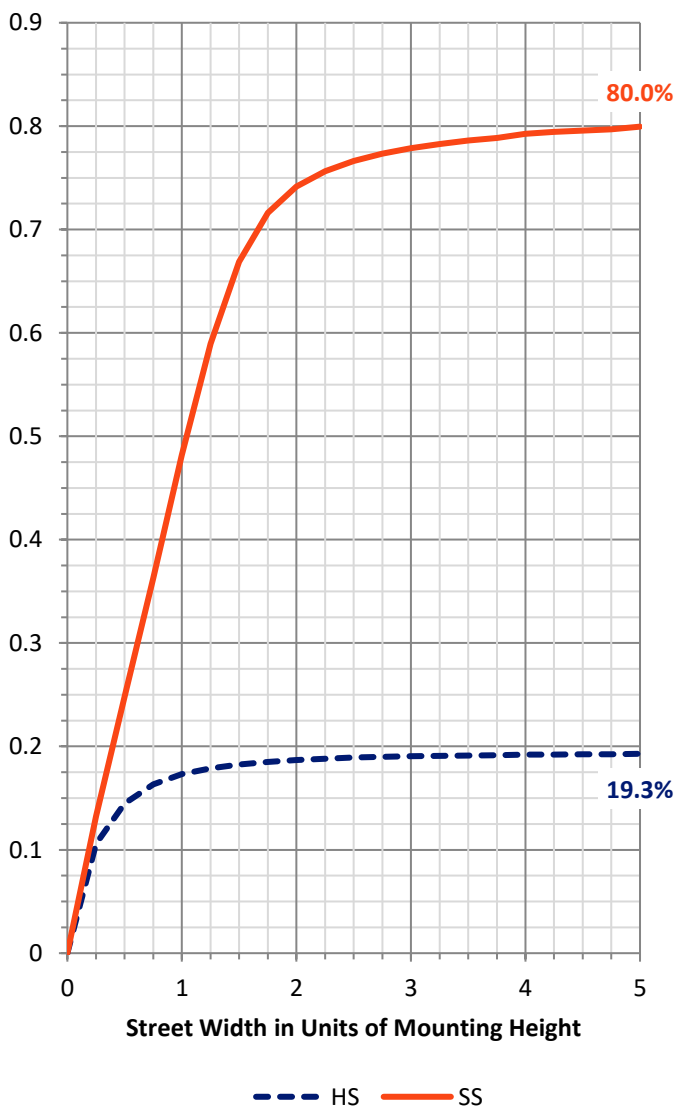
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7553.1	0.0	7553.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	31228.7	0.0	31228.7
	% Fixture	80.5	0.0	80.5
Total	Lumens	38781.9	0.0	38781.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	783.3	2.0
10°-20°	1876.1	4.8
20°-30°	2533.5	6.5
30°-40°	3390.0	8.7
40°-50°	4985.0	12.9
50°-60°	7770.3	20.0
60°-70°	9571.8	24.7
70°-80°	6763.3	17.4
80°-90°	1108.5	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°	38781.9	100.0
0°-180°	38781.9	100.0

Coefficient of Utilization



REPORT NUMBER: P480242

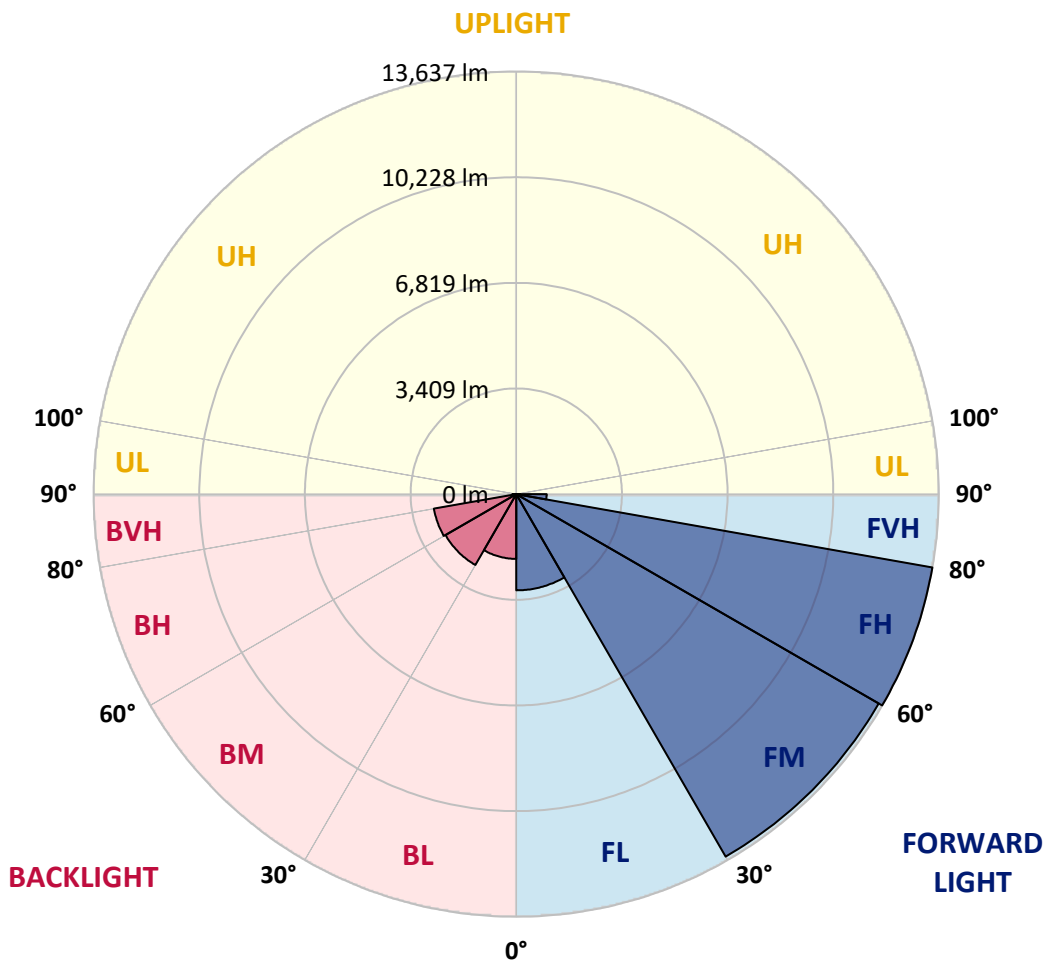
CATALOG NUMBER: IFLD-S-SA6E-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3104.2	8.0			
FM (30°-60°)	13506.9	34.8			
FH (60°-80°)	13637.0	35.2			G5
FVH (80°-90°)	980.7	2.5			G5
BL (0°-30°)	2088.7	5.4	B3/2500		
BM (30°-60°)	2638.5	6.8	B3/5000		
BH (60°-80°)	2698.1	7.0	B4/5000		G4/5000
BVH (80°-90°)	127.9	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: P480242

CATALOG NUMBER: IFLD-S-SA6E-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9
2.5°	8359.6	8454.1	8488.4	8539.9	8673.0	8771.8	8831.9	8900.6	8982.2	9050.9	9093.8
5°	7775.7	7827.2	7908.8	7964.6	8132.0	8398.3	8578.6	8870.5	8862.0	8969.3	9132.5
7.5°	7208.9	7260.5	7299.1	7410.7	7651.2	7891.6	8222.2	8694.5	8660.2	8909.2	9162.5
10°	6856.9	6818.2	6831.1	7020.0	7208.9	7479.4	7895.9	8376.8	8501.3	8887.7	9248.4
12.5°	6526.2	6483.3	6586.4	6706.6	6938.4	7183.2	7681.2	8114.9	8303.8	8810.4	9287.0
15°	6320.2	6290.1	6418.9	6470.4	6745.2	7037.2	7389.3	7917.4	8123.5	8716.0	9226.9
17.5°	6204.2	6230.0	6277.2	6388.9	6564.9	6813.9	7200.3	7784.3	7874.4	8600.0	9214.0
20°	6225.7	6255.8	6260.0	6307.3	6427.5	6620.7	7015.7	7642.6	7702.7	8578.6	9248.4
22.5°	6397.4	6354.5	6371.7	6341.6	6376.0	6526.2	6874.0	7453.7	7685.5	8398.3	9175.4
25°	6655.1	6594.9	6586.4	6483.3	6418.9	6461.8	6848.3	7406.4	7556.7	8342.4	9171.1
27.5°	7110.2	7020.0	7020.0	6865.4	6603.5	6534.8	6775.3	7329.1	7462.2	8290.9	9072.3
30°	7548.1	7548.1	7552.4	7333.4	7041.5	6702.3	6805.3	7299.1	7385.0	8136.3	8939.2
32.5°	8080.5	8067.6	8046.2	7938.8	7488.0	6981.4	6951.3	7260.5	7303.4	8084.8	8900.6
35°	8600.0	8565.7	8733.1	8638.7	8179.3	7526.7	7101.6	7277.6	7372.1	8007.5	8780.4
37.5°	8990.8	9012.2	9360.0	9420.1	9025.1	8144.9	7526.7	7449.4	7539.5	8119.2	8780.4
40°	9497.4	9583.3	9909.6	10111.4	9870.9	8960.7	8200.7	7737.0	7801.4	8368.2	8969.3
42.5°	10162.9	10235.9	10652.4	10914.3	10845.6	9999.8	8866.3	8338.1	8286.6	8784.7	9252.7
45°	11043.1	11056.0	11476.8	11837.4	11979.1	11086.0	9922.5	9098.1	9055.2	9501.7	9772.2
47.5°	12090.7	12077.9	12339.8	12726.2	13108.3	12382.7	11137.6	10253.1	10098.5	10527.9	10635.2
50°	13104.0	13048.2	13108.3	13602.1	14336.3	14005.7	12614.5	11665.7	11511.1	11747.2	11931.9
52.5°	13662.2	13730.9	13567.7	14220.4	15641.5	15924.9	14572.4	13353.0	13219.9	13335.9	13657.9
55°	13271.5	13413.2	13305.8	13924.1	16212.6	18264.9	17105.6	15306.6	15134.9	15091.9	15620.1
57.5°	11609.9	11867.5	11888.9	12867.9	16015.1	20076.8	20669.3	17612.3	17354.7	16916.7	17462.0
60°	8913.5	9171.1	9368.6	10527.9	14323.4	21158.8	24799.7	20892.6	20042.5	18908.9	19235.3
62.5°	6247.2	6423.2	6620.7	7333.4	11043.1	20523.3	28372.0	25512.5	23945.3	21008.5	21416.4
65°	4551.2	4688.6	4890.4	5311.2	6783.9	16981.1	30029.3	30999.7	29514.1	23679.1	23627.6
67.5°	3426.3	3512.2	3778.4	4452.4	4701.5	10489.2	28311.9	36796.0	35593.8	26646.0	25405.1
70°	2593.3	2666.3	2915.3	3838.5	4392.3	5624.6	22335.2	38088.4	38431.9	29973.5	26598.8
72.5°	1786.1	1867.7	2146.8	3198.7	4182.0	4461.0	14018.6	34602.0	35902.9	31343.2	25319.3
75°	1094.9	1150.7	1313.8	2425.9	4151.9	4362.3	7715.6	28354.8	29733.1	28960.2	22150.6
77.5°	772.8	768.6	798.6	1421.2	3598.0	4388.0	4757.3	20776.7	22116.3	21343.4	15031.8
80°	562.5	566.8	596.8	850.1	2443.0	4461.0	3748.3	13915.5	14314.8	11129.0	5929.4
82.5°	339.2	356.4	429.4	575.3	1468.4	4027.4	3464.9	7732.7	7234.7	3572.3	1631.6
85°	180.3	180.3	253.3	365.0	781.4	3005.5	3336.1	3679.6	3082.8	1107.7	605.4
87.5°	42.9	42.9	73.0	146.0	313.4	1438.4	2275.6	1464.1	1172.1	373.5	249.0
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: P480242
 CATALOG NUMBER: IFLD-S-SA6E-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9	8977.9
2.5°	9076.6	9025.1	9089.5	8960.7	8857.7	8862.0	8703.1	8694.5	8673.0	8561.4	8600.0
5°	9179.7	9136.7	9063.8	8922.1	8694.5	8466.9	8329.6	8153.5	8080.5	8041.9	8059.1
7.5°	9278.4	9201.2	8990.8	8793.3	8441.2	8011.8	7762.8	7526.7	7226.1	7191.8	7131.6
10°	9304.2	9141.0	8870.5	8449.8	7981.8	7505.2	6938.4	6500.5	6268.6	6088.3	6019.6
12.5°	9265.6	9196.9	8677.3	8136.3	7427.9	6680.8	6019.6	5401.3	4972.0	4748.7	4688.6
15°	9261.3	9141.0	8462.7	7659.8	6753.8	5779.2	4838.9	4096.1	3645.3	3460.6	3460.6
17.5°	9265.6	8977.9	8209.3	7178.9	5959.5	4641.4	3606.6	2996.9	2747.9	2722.1	2743.6
20°	9179.7	8857.7	7943.1	6612.1	4963.4	3486.4	2619.1	2370.1	2370.1	2404.4	2417.3
22.5°	9102.4	8677.3	7522.4	5912.3	3950.1	2524.6	2129.6	2056.6	2138.2	2198.3	2224.1
25°	8995.1	8527.1	7093.0	5186.6	3005.5	2035.2	1850.5	1867.7	1945.0	2052.3	2043.7
27.5°	8840.5	8265.1	6582.1	4345.1	2237.0	1756.1	1708.8	1717.4	1799.0	1846.2	1837.7
30°	8664.5	7998.9	6109.8	3507.9	1773.3	1610.1	1605.8	1627.3	1640.1	1665.9	1661.6
32.5°	8441.2	7646.9	5607.4	2726.4	1597.2	1528.5	1511.3	1498.5	1511.3	1507.0	1494.2
35°	8282.3	7458.0	5096.5	2078.1	1498.5	1455.5	1442.6	1421.2	1404.0	1378.2	1373.9
37.5°	8239.4	7269.0	4559.8	1696.0	1421.2	1399.7	1356.8	1318.1	1296.7	1283.8	1275.2
40°	8213.6	7144.5	4036.0	1489.9	1356.8	1335.3	1283.8	1232.3	1210.8	1197.9	1202.2
42.5°	8303.8	7075.8	3503.6	1386.8	1301.0	1262.3	1206.5	1146.4	1142.1	1133.5	1146.4
45°	8621.5	7161.7	3009.8	1313.8	1245.1	1180.7	1107.7	1077.7	1073.4	1064.8	1073.4
47.5°	9342.8	7376.4	2589.0	1266.6	1185.0	1129.2	1051.9	1009.0	1004.7	1000.4	1000.4
50°	10339.0	8037.6	2237.0	1210.8	1146.4	1069.1	996.1	948.9	940.3	923.1	923.1
52.5°	11901.8	9149.6	2026.6	1180.7	1077.7	1013.3	936.0	884.5	863.0	845.8	845.8
55°	13662.2	10527.9	1987.9	1129.2	1004.7	944.6	875.9	824.4	802.9	781.4	772.8
57.5°	15667.3	12352.6	2262.7	1094.9	953.2	875.9	798.6	751.4	734.2	712.7	704.1
60°	17535.0	14173.1	3117.1	1043.3	905.9	811.5	734.2	687.0	665.5	644.0	644.0
62.5°	19694.7	16427.3	4564.1	1043.3	863.0	742.8	665.5	631.2	618.3	596.8	592.5
65°	22249.4	18758.7	5620.3	1107.7	850.1	682.7	601.1	566.8	553.9	541.0	536.7
67.5°	24194.3	20098.3	4834.6	1279.5	905.9	631.2	536.7	515.2	506.6	493.8	485.2
70°	24400.4	19282.5	2915.3	1382.5	961.8	579.6	480.9	459.4	459.4	446.5	437.9
72.5°	22549.9	17109.9	1962.2	1232.3	871.6	519.5	425.1	407.9	399.3	390.7	386.4
75°	18870.3	14512.3	1550.0	983.2	669.8	429.4	369.2	352.1	339.2	334.9	326.3
77.5°	12674.7	9433.0	1146.4	768.6	493.8	347.8	309.1	292.0	279.1	274.8	261.9
80°	4868.9	3593.7	738.5	558.2	347.8	274.8	244.7	227.6	219.0	206.1	197.5
82.5°	1434.1	1163.6	412.2	343.5	223.3	188.9	176.0	163.2	150.3	137.4	133.1
85°	592.5	532.4	253.3	180.3	137.4	111.6	103.0	90.2	77.3	68.7	60.1
87.5°	274.8	227.6	115.9	68.7	47.2	25.8	12.9	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)