

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: P476902

Luminaire Tested: **IFLD-L-SA8D-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476902
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (128) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

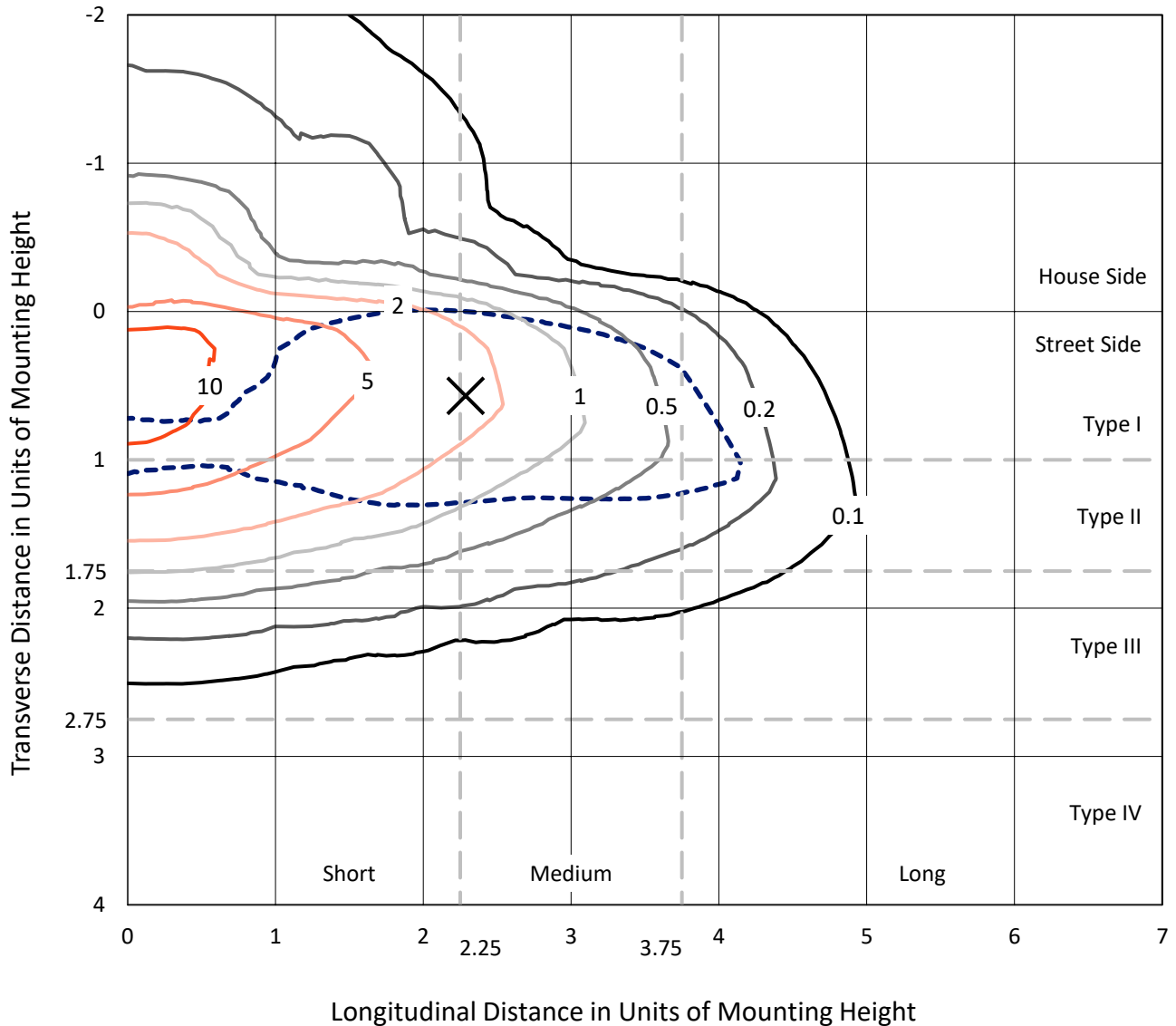
Lumens per Lamp: N/A
Luminaire Lumens: 46883.8 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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: P476902
 CATALOG NUMBER: IFLD-L-SA8D-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

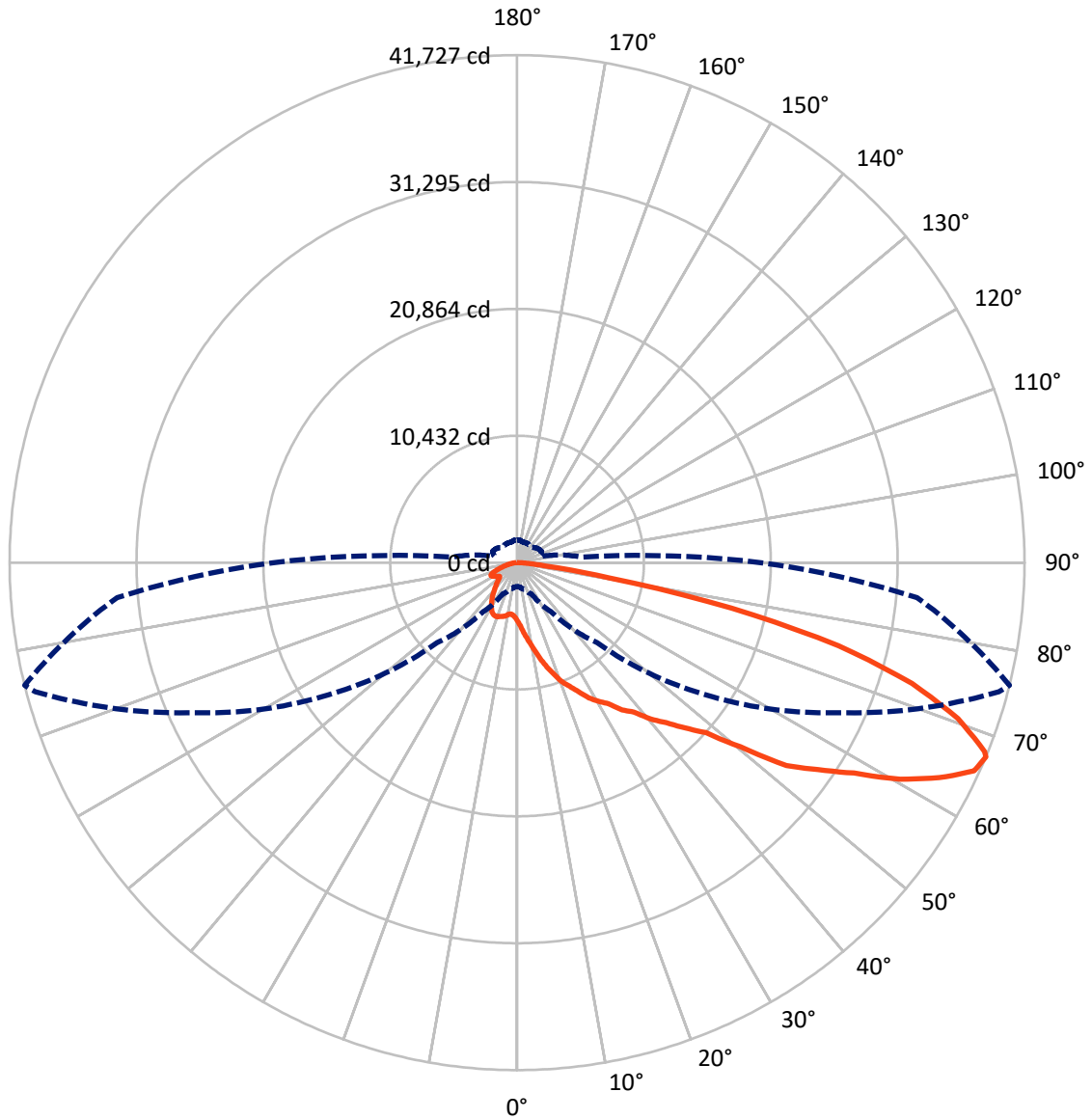
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P476902
CATALOG NUMBER: IFLD-L-SA8D-727-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P476902

CATALOG NUMBER: IFLD-L-SA8D-727-U-T2R

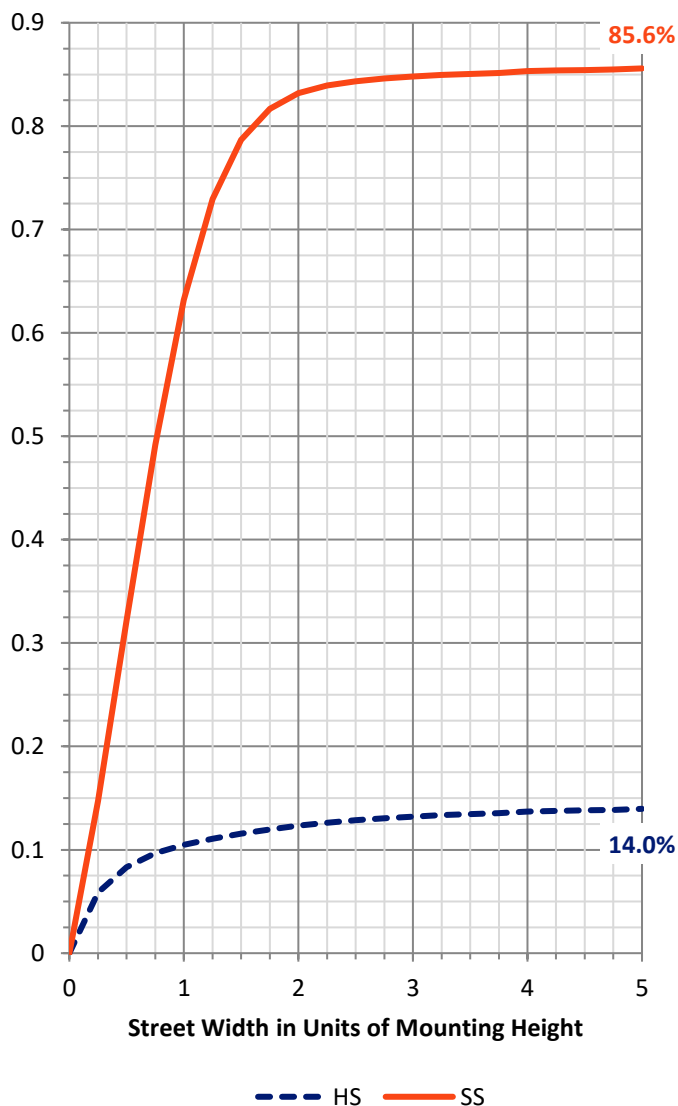
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6669.8	0.0	6669.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	40214.0	0.0	40214.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	46883.8	0.0	46883.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.8	1.2
10°-20°	2084.4	4.4
20°-30°	3875.2	8.3
30°-40°	6143.0	13.1
40°-50°	8496.3	18.1
50°-60°	10451.0	22.3
60°-70°	9725.2	20.7
70°-80°	4880.0	10.4
80°-90°	672.9	1.4
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°	46883.8	100.0
0°-180°	46883.8	100.0

Coefficient of Utilization



REPORT NUMBER: P476902

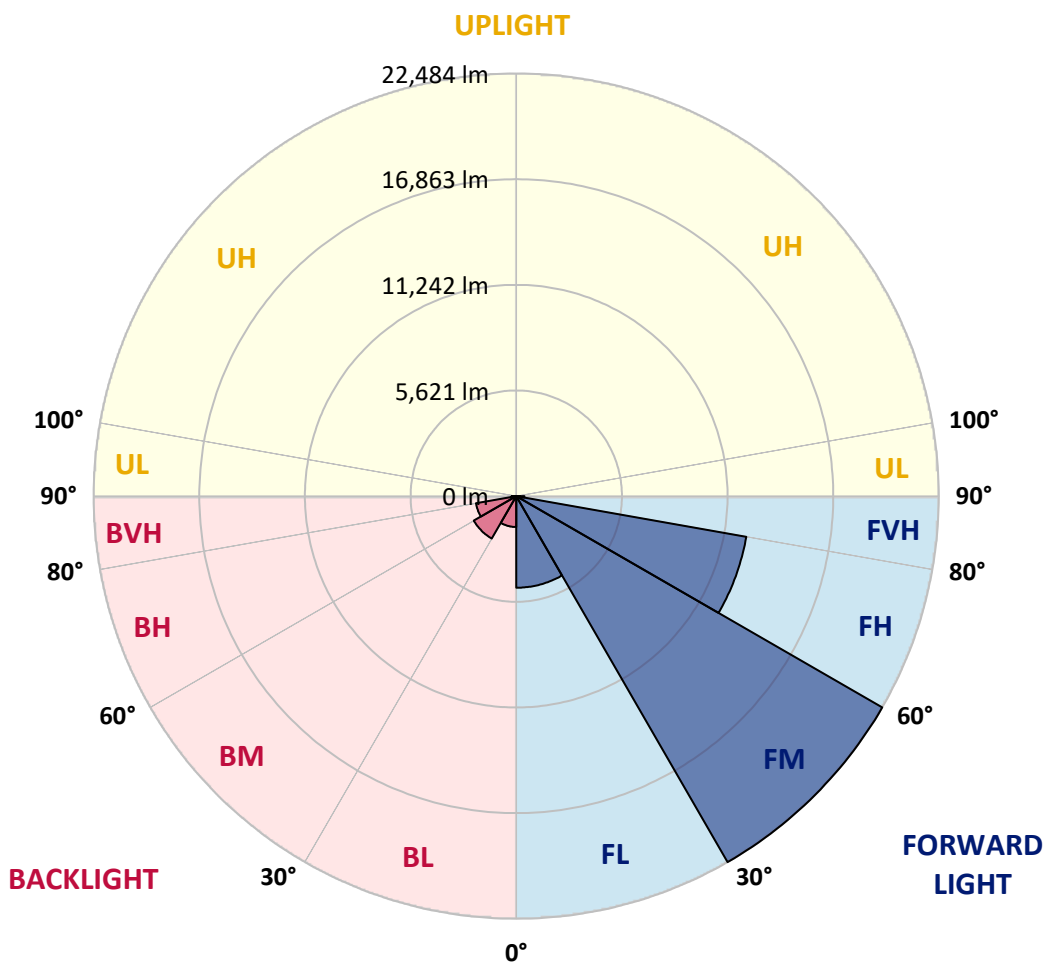
CATALOG NUMBER: IFLD-L-SA8D-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4872.8	10.4			
FM (30°-60°)	22484.0	48.0			
FH (60°-80°)	12428.5	26.5			G5
FVH (80°-90°)	428.7	0.9			G3/500
BL (0°-30°)	1642.5	3.5	B3/2500		
BM (30°-60°)	2606.4	5.6	B3/5000		
BH (60°-80°)	2176.7	4.6	B3/2500		G3/2500
BVH (80°-90°)	244.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





REPORT NUMBER: P476902
 CATALOG NUMBER: IFLD-L-SA8D-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8
2.5°	6657.1	6577.0	6496.9	6325.9	6267.1	6106.8	5813.0	5487.1	5219.9	5182.5	4995.5
5°	8260.0	8142.4	8115.7	8019.5	7715.0	7405.1	6924.3	6400.7	5748.9	5796.9	5155.8
7.5°	9462.1	9392.7	9248.4	9157.6	8975.9	8564.5	8067.6	7373.1	6544.9	6384.7	5513.8
10°	10370.4	10274.2	10268.9	10188.7	10092.6	9670.5	9291.1	8356.1	7292.9	7073.9	5951.9
12.5°	10829.9	10813.8	11097.0	11097.0	11059.6	10883.3	10231.5	9376.6	8003.5	7928.7	6459.5
15°	11326.7	11193.2	11438.9	11625.9	11722.1	11812.9	11273.3	10370.4	8911.8	8767.5	7004.4
17.5°	11326.7	11316.1	11561.8	11871.7	12373.9	12491.5	12197.6	11284.0	9665.1	9558.3	7602.8
20°	11134.4	11289.3	11460.3	11877.1	12422.0	12897.5	12983.0	12219.0	10498.6	10413.1	8281.3
22.5°	12032.0	11882.4	12058.7	12219.0	12641.1	13362.4	13597.4	13041.8	11374.8	11048.9	8895.8
25°	13538.7	13437.2	13308.9	13073.8	13250.2	13565.4	13923.3	13650.9	12122.8	11759.5	9488.8
27.5°	15007.9	15013.3	14735.5	14222.5	13843.2	13907.3	14329.4	14185.1	12753.3	12593.0	9894.9
30°	17097.0	16968.7	16658.9	15964.3	15221.7	14612.6	14543.1	14682.0	13554.7	13244.8	10477.2
32.5°	18662.4	18689.1	18251.0	17251.9	16236.8	15739.9	15130.8	15189.6	14062.3	13832.5	10942.1
35°	19928.7	19896.6	19586.7	18758.6	17556.5	16958.1	16135.3	15798.7	15243.0	14879.7	11652.7
37.5°	21296.4	21034.6	20532.4	19597.4	18828.0	17999.9	17198.5	16439.8	16028.4	15590.3	12261.7
40°	21846.7	21846.7	21173.5	20746.1	19832.5	19207.4	18689.1	17284.0	16984.8	16899.3	13041.8
42.5°	21456.7	21697.1	21419.3	20933.1	20559.1	19768.4	19629.5	18160.2	18165.5	17994.6	13976.8
45°	21419.3	21088.0	20858.3	20981.2	20804.9	20762.1	21114.8	19373.0	19405.1	19383.7	15232.3
47.5°	20345.4	20195.8	20537.7	20740.8	20885.0	21547.5	22562.7	20820.9	21050.6	20890.4	16680.2
50°	19276.8	19250.1	19463.8	20201.1	20826.3	21916.2	23941.1	23054.2	23807.5	23796.9	19303.6
52.5°	16349.0	16632.2	17471.0	19031.1	20575.1	22418.4	24983.0	25907.3	27344.5	27734.5	21478.1
55°	13549.4	13399.8	14639.3	16904.6	19479.9	22616.1	26147.7	27622.3	29738.1	30021.2	23711.4
57.5°	10541.4	10819.2	11796.9	13971.4	17214.5	21638.4	27002.5	29316.0	32441.5	32660.6	26302.6
60°	7864.6	7902.0	8975.9	10728.4	14201.2	19431.8	27280.4	31052.4	35540.3	36165.4	29016.8
62.5°	4947.4	5171.8	5989.3	7715.0	10691.0	16343.6	26035.5	32104.9	38788.8	38954.4	31752.3
65°	2666.1	2810.3	3424.7	4509.3	7469.2	12363.2	22733.6	31474.5	40316.8	41299.9	32970.4
67°	1971.5	1998.2	2281.4	2879.8	4995.5	9307.2	18956.3	29193.1	41011.4	41727.3	33018.5
67.5°	1848.6	1886.0	2110.4	2585.9	4429.2	8569.9	17967.9	28381.0	40701.5	41470.8	32644.5
70°	1581.5	1592.2	1645.6	1779.2	2484.4	5155.8	12235.0	23257.2	37725.5	38462.8	30021.2
72.5°	1405.2	1415.8	1437.2	1463.9	1683.0	2981.3	7442.5	17898.4	32788.8	33964.2	25901.9
75°	1234.2	1271.6	1282.3	1260.9	1431.9	1939.4	3959.0	13154.0	26746.1	27317.8	20142.4
77.5°	1047.2	1063.2	1084.6	1106.0	1276.9	1447.9	1902.0	8879.7	18357.9	18010.6	10894.0
80°	881.6	886.9	902.9	919.0	1106.0	1106.0	1079.2	4797.8	8019.5	7666.9	3681.2
82.5°	630.5	667.9	705.3	748.0	919.0	742.6	705.3	2137.1	2537.8	2414.9	1244.9
85°	245.8	299.2	464.8	512.9	582.4	400.7	470.2	924.3	1057.9	1047.2	464.8
87.5°	42.7	48.1	128.2	197.7	213.7	138.9	224.4	331.3	395.4	427.4	171.0
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: P476902
 CATALOG NUMBER: IFLD-L-SA8D-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8	4797.8
2.5°	4840.6	4675.0	4477.3	4279.6	4151.4	3948.3	3932.3	3809.4	3793.4	3750.6	3772.0
5°	4878.0	4680.3	4279.6	3964.4	3820.1	3702.6	3729.3	3675.8	3659.8	3633.1	3590.4
7.5°	5171.8	4781.8	4183.4	3910.9	3804.1	3750.6	3750.6	3686.5	3638.4	3670.5	3702.6
10°	5364.2	4829.9	4258.2	3985.7	3900.2	3782.7	3825.4	3745.3	3772.0	3707.9	3707.9
12.5°	5674.1	5102.4	4413.2	4097.9	3959.0	3852.2	3894.9	3804.1	3782.7	3788.0	3772.0
15°	6090.8	5284.0	4482.6	4162.0	4065.9	3932.3	3900.2	3820.1	3740.0	3713.2	3745.3
17.5°	6480.8	5508.4	4530.7	4199.4	4044.5	3894.9	3857.5	3756.0	3729.3	3649.1	3585.0
20°	6945.6	5775.6	4594.8	4231.5	3964.4	3814.8	3718.6	3617.1	3526.3	3478.2	3499.5
22.5°	7255.5	5914.5	4626.9	4167.4	3846.8	3707.9	3504.9	3435.4	3307.2	3253.8	3211.0
25°	7763.1	6085.5	4546.7	3991.1	3638.4	3414.1	3232.4	3136.2	3045.4	2975.9	2954.6
27.5°	7891.3	6213.7	4359.7	3691.9	3307.2	3072.1	2917.2	2799.6	2740.9	2634.0	2612.6
30°	8265.3	6085.5	4081.9	3328.6	2992.0	2751.5	2596.6	2511.1	2372.2	2345.5	2286.7
32.5°	8505.7	6122.9	3729.3	2975.9	2628.7	2414.9	2313.4	2227.9	2190.5	2062.3	2030.3
35°	8906.5	5994.6	3371.3	2650.0	2329.5	2163.8	2078.4	2051.6	1928.8	1870.0	1816.6
37.5°	9162.9	5919.8	3013.3	2281.4	2003.6	1934.1	1960.8	1848.6	1699.0	1586.8	1549.4
40°	9611.7	5893.1	2607.3	1976.8	1779.2	1763.1	1848.6	1634.9	1362.4	1266.2	1212.8
42.5°	10258.2	5711.5	2292.1	1704.4	1602.8	1672.3	1688.3	1362.4	1207.5	1127.3	1089.9
45°	10878.0	5748.9	1982.2	1410.5	1394.5	1496.0	1458.6	1154.0	1063.2	1004.4	1036.5
47.5°	12069.4	5935.9	1677.6	1175.4	1255.6	1351.7	1132.7	1031.2	945.7	902.9	908.3
50°	13912.7	6117.5	1410.5	1073.9	1186.1	1223.5	972.4	935.0	929.6	844.2	838.8
52.5°	15018.6	6048.1	1362.4	1202.1	1271.6	1223.5	1057.9	1031.2	988.4	951.0	908.3
55°	16776.4	6251.1	1463.9	1405.2	1442.6	1175.4	1186.1	1175.4	1143.4	1047.2	1073.9
57.5°	18176.2	6384.7	1597.5	1570.8	1549.4	1223.5	1239.5	1244.9	1223.5	1180.8	1218.2
60°	20099.6	6651.8	1736.4	1741.8	1747.1	1330.4	1357.1	1389.1	1383.8	1367.8	1378.4
62.5°	21280.4	6528.9	1891.4	1976.8	1950.1	1549.4	1544.1	1565.4	1565.4	1592.2	1608.2
65°	21104.1	6074.8	1971.5	2185.2	2046.3	1709.7	1709.7	1720.4	1725.7	1779.2	1784.5
67°	20046.2	5262.7	1928.8	2217.3	2046.3	1773.8	1773.8	1784.5	1747.1	1886.0	1843.3
67.5°	19554.7	5022.2	1891.4	2190.5	2030.3	1768.5	1768.5	1773.8	1741.8	1875.3	1832.6
70°	17006.1	3729.3	1629.6	1939.4	1880.7	1720.4	1720.4	1688.3	1661.6	1837.9	1800.5
72.5°	14516.4	2708.8	1309.0	1650.9	1699.0	1656.3	1667.0	1586.8	1512.0	1634.9	1602.8
75°	11118.4	1992.9	1020.5	1271.6	1437.2	1549.4	1618.9	1415.8	1319.7	1351.7	1293.0
77.5°	6203.0	1298.3	806.8	940.3	1095.3	1442.6	1554.8	1276.9	1079.2	1041.8	1041.8
80°	2105.1	758.7	593.1	699.9	753.3	1276.9	1453.2	1036.5	849.5	812.1	785.4
82.5°	796.1	464.8	406.1	480.9	480.9	1009.8	1186.1	796.1	641.1	828.1	844.2
85°	363.3	277.8	267.1	277.8	277.8	619.8	838.8	518.3	577.0	496.9	438.1
87.5°	144.3	133.6	122.9	117.5	96.2	106.9	288.5	138.9	261.8	69.5	64.1
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)