

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: P318372

Luminaire Tested: **GAN-SA8C-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51634 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

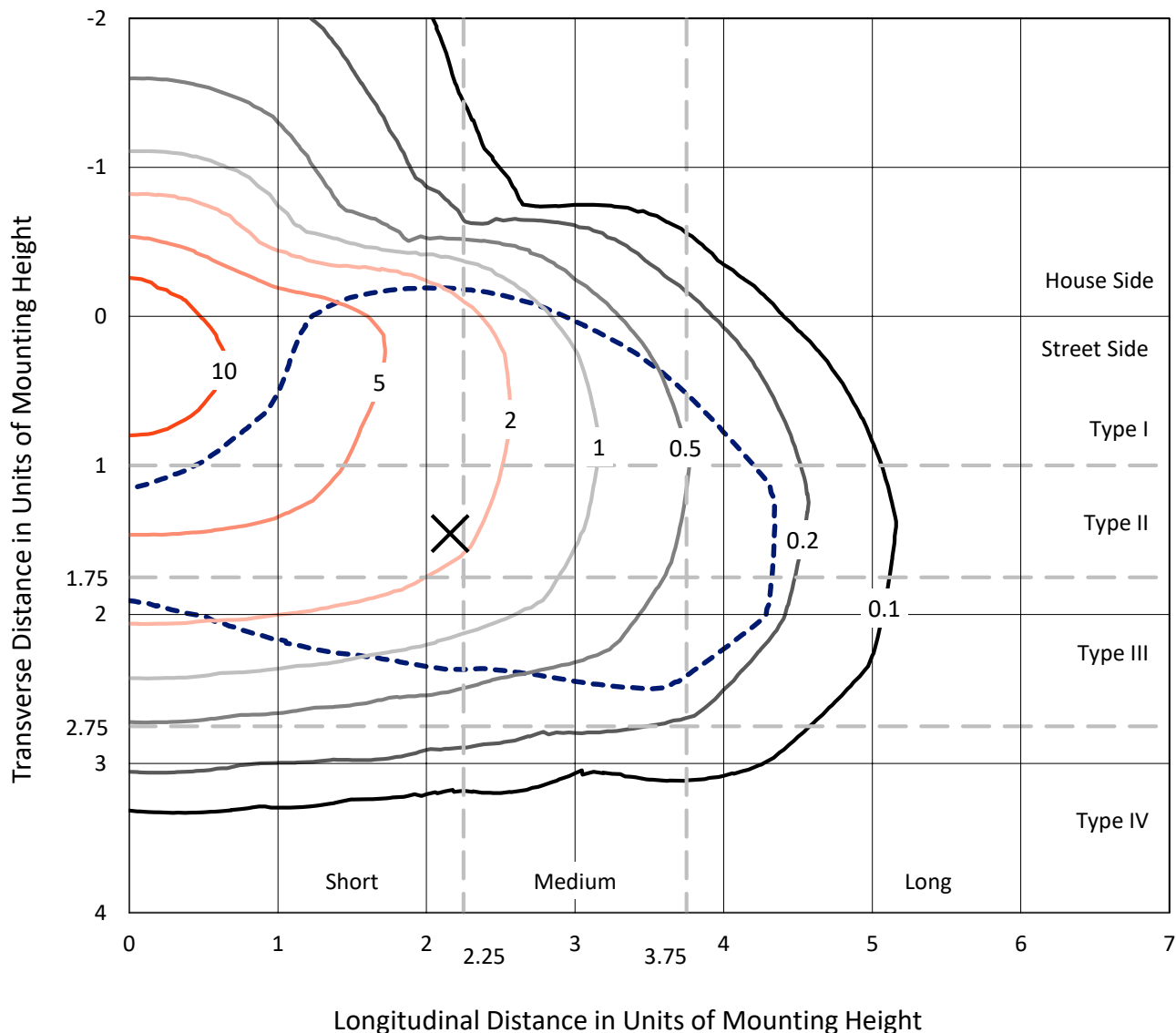
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

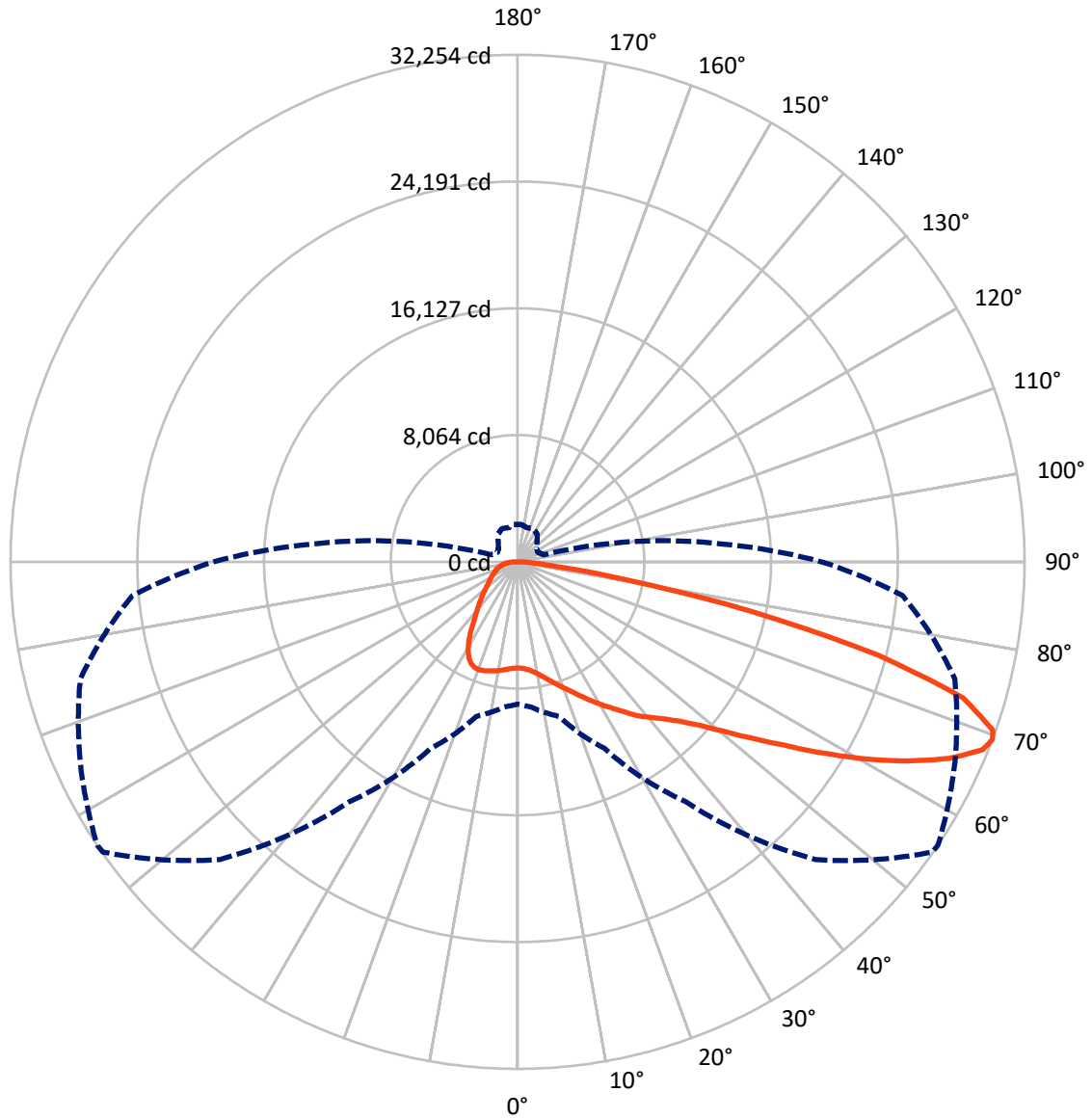
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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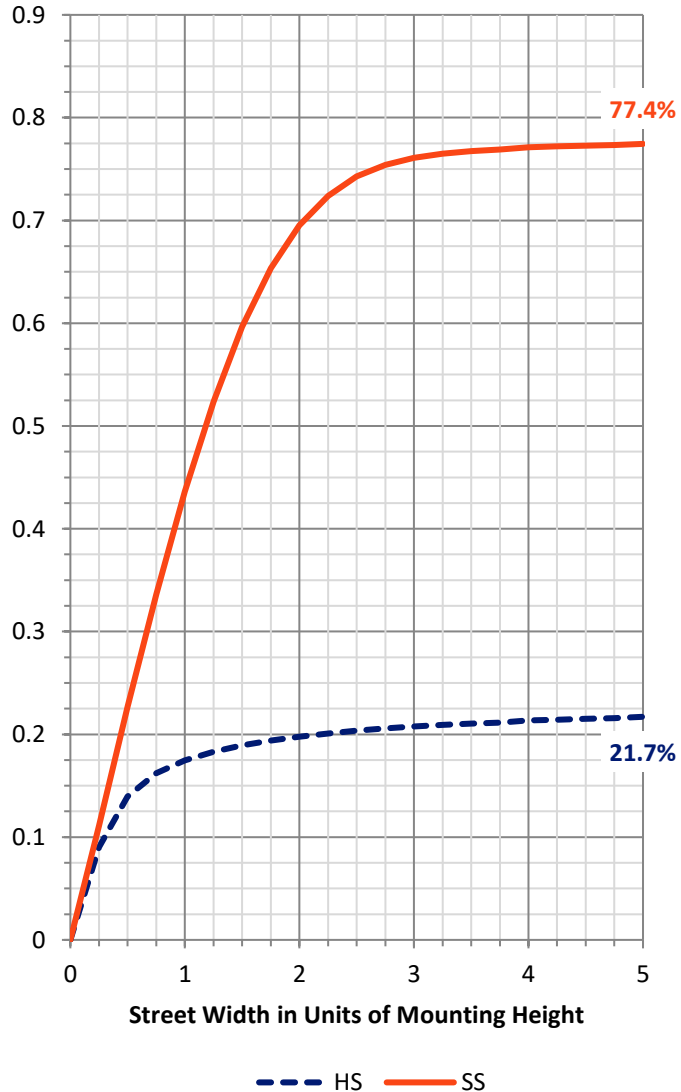
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11498.8	0.0	11498.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	40135.2	0.0	40135.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	51634.0	0.0	51634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	663.0	1.3
10°-20°	2131.9	4.1
20°-30°	3721.5	7.2
30°-40°	5345.8	10.4
40°-50°	7398.3	14.3
50°-60°	10839.6	21.0
60°-70°	13215.5	25.6
70°-80°	7306.4	14.2
80°-90°	1011.9	2.0
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°	51634.0	100.0
0°-180°	51634.0	100.0

Coefficient of Utilization



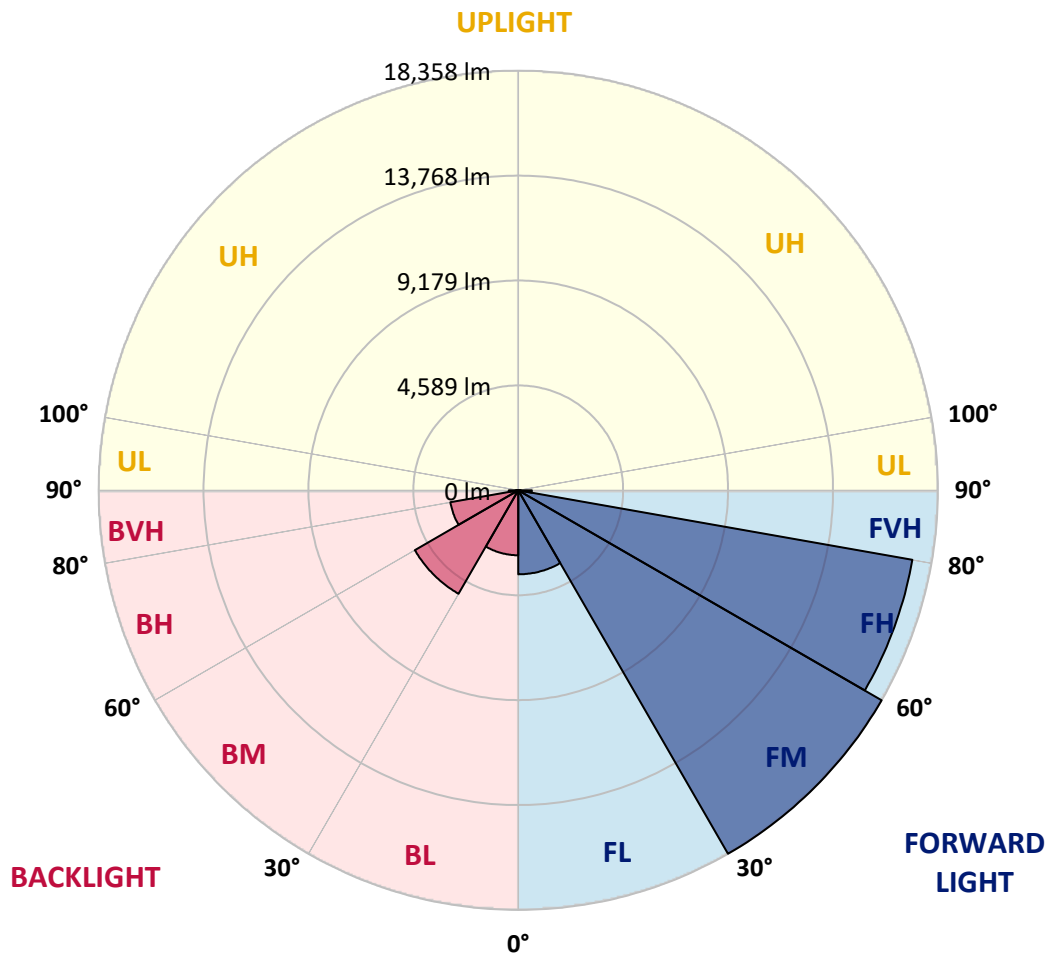
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3674.8	7.1			
FM (30°-60°)	18357.8	35.6			
FH (60°-80°)	17506.5	33.9			G5
FVH (80°-90°)	596.1	1.2			G4/750
BL (0°-30°)	2841.6	5.5	B4/5000		
BM (30°-60°)	5226.0	10.1	B4/8500		
BH (60°-80°)	3015.4	5.8	B4/5000		G4/5000
BVH (80°-90°)	415.9	0.8			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4
2.5°	6793.1	6800.2	6794.8	6809.1	6793.1	6803.7	6794.8	6794.8	6789.5	6773.5	6755.7
5°	6899.8	6914.0	6905.1	6919.3	6899.8	6903.3	6887.3	6887.3	6871.3	6837.5	6802.0
7.5°	7067.0	7083.0	7075.9	7090.1	7063.4	7063.4	7042.1	7040.3	7008.3	6953.1	6912.2
10°	7266.2	7287.6	7280.4	7301.8	7280.4	7287.6	7266.2	7266.2	7223.5	7145.3	7093.7
12.5°	7556.1	7582.8	7563.3	7561.5	7552.6	7566.8	7549.0	7545.5	7506.3	7399.6	7328.5
15°	7943.9	7972.4	7931.5	7927.9	7878.1	7872.8	7872.8	7867.4	7842.5	7714.5	7597.1
17.5°	8390.4	8399.3	8363.7	8306.8	8242.7	8201.8	8196.5	8210.7	8210.7	8061.3	7874.5
20°	8828.0	8844.0	8815.5	8751.5	8669.6	8609.2	8566.5	8594.9	8593.2	8415.3	8150.2
22.5°	9304.7	9342.0	9299.3	9217.5	9121.4	9053.9	8979.1	9004.0	9005.8	8787.0	8420.6
25°	9921.9	9888.1	9861.4	9745.8	9608.8	9539.5	9470.1	9495.0	9487.9	9187.3	8699.9
27.5°	10468.0	10475.1	10439.5	10316.8	10158.5	10005.5	10001.9	10017.9	9991.3	9603.5	8963.1
30°	11103.0	11106.5	11056.7	10946.4	10773.9	10576.5	10530.2	10556.9	10500.0	9998.4	9240.6
32.5°	11734.4	11752.2	11697.1	11563.7	11424.9	11184.8	11092.3	11110.1	10967.8	10402.1	9527.0
35°	12287.6	12312.5	12294.7	12205.8	12054.6	11848.3	11738.0	11727.3	11551.2	10896.6	9905.9
37.5°	12851.5	12874.6	12855.0	12780.3	12719.9	12501.1	12442.4	12442.4	12136.4	11401.8	10387.9
40°	13431.4	13466.9	13443.8	13340.6	13289.1	13189.5	13048.9	13015.1	12684.3	12008.4	11174.1
42.5°	13970.3	14016.6	14109.1	14048.6	13943.6	13957.9	13675.1	13657.3	13415.4	12904.9	12161.3
45°	14735.2	14802.8	14959.3	14913.1	14891.7	14813.5	14477.3	14461.3	14368.8	14110.8	13386.9
47.5°	15569.4	15661.9	15944.7	15953.6	16183.1	16035.5	15578.3	15523.2	15544.5	15555.2	14882.8
50°	16337.8	16439.2	16903.5	17122.3	17663.0	17695.0	16964.0	16914.2	16997.8	17243.2	16626.0
52.5°	16951.5	17079.6	17659.5	18335.4	19262.1	19525.4	18669.8	18632.4	18694.7	19118.0	18596.9
55°	17401.5	17540.3	18171.7	19402.6	20882.6	21346.8	20633.5	20598.0	20637.1	21176.1	20740.3
57.5°	17506.5	17540.3	18456.3	20121.3	22250.4	23365.7	23036.6	22965.5	22773.4	23243.0	23106.0
60°	17013.8	17149.0	18221.5	20373.8	23308.8	25356.1	25548.2	25459.3	24920.3	25304.5	25194.3
62.5°	16014.1	16256.0	17344.6	19989.6	23723.2	26981.9	28011.8	27905.1	26976.6	27225.6	26695.5
65°	14381.2	14484.4	15628.1	18664.5	23196.7	28022.5	30208.6	30155.2	28986.6	28597.0	26973.0
67.5°	11460.5	11654.4	12625.6	15894.9	21042.6	27899.7	31907.3	31901.9	30299.3	29105.7	25989.4
69°	9053.9	9254.9	10179.8	13093.4	18620.0	26777.4	32191.9	32254.1	30669.3	28796.2	24584.1
70°	7218.2	7451.2	8086.2	11028.3	16469.5	25297.4	31955.3	32067.4	30598.1	28285.7	23287.4
72.5°	3071.9	3260.5	3712.3	5684.9	10037.5	18890.4	29217.8	29641.1	28949.2	25888.0	19246.1
75°	1341.2	1399.9	1604.4	2317.7	4455.8	10281.2	22889.0	23671.6	24753.1	21882.2	14336.8
77.5°	981.9	1006.8	1118.8	1360.7	1999.3	3883.0	14719.2	15174.5	17851.6	15923.4	8794.2
80°	759.5	777.3	864.5	999.7	1305.6	1570.6	6713.0	7104.3	10037.5	8178.7	3662.5
82.5°	604.8	617.2	677.7	736.4	901.8	951.6	2228.8	2472.5	3705.1	2259.0	969.4
85°	562.1	576.3	597.7	537.2	578.1	558.5	964.1	1008.6	1118.8	887.6	405.6
87.5°	254.4	300.6	592.3	418.0	307.7	245.5	394.9	412.7	464.3	466.0	179.7
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°	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4	6750.4
2.5°	6766.4	6761.0	6769.9	6748.6	6775.3	6773.5	6764.6	6768.2	6785.9	6784.2	6785.9
5°	6807.3	6803.7	6814.4	6798.4	6830.4	6841.1	6842.9	6858.9	6878.4	6883.8	6883.8
7.5°	6910.5	6910.5	6915.8	6894.4	6915.8	6914.0	6905.1	6921.1	6940.7	6942.5	6940.7
10°	7088.3	7090.1	7081.2	7026.1	7008.3	6960.3	6915.8	6917.6	6942.5	6962.0	6967.4
12.5°	7312.5	7305.3	7266.2	7164.8	7090.1	6992.3	6946.0	6944.3	6969.2	6985.2	6990.5
15°	7568.6	7549.0	7447.6	7282.2	7150.6	7054.5	6979.8	6962.0	6947.8	6930.0	6931.8
17.5°	7810.5	7766.0	7597.1	7367.6	7228.9	7100.8	6956.7	6841.1	6761.0	6714.8	6700.6
20°	8056.0	7968.8	7725.1	7447.6	7271.5	7038.5	6761.0	6526.2	6380.4	6312.8	6300.3
22.5°	8280.1	8139.6	7844.3	7531.2	7237.7	6828.6	6392.8	6051.3	5848.5	5757.8	5764.9
25°	8498.9	8303.2	7968.8	7589.9	7067.0	6458.7	5880.6	5460.8	5226.0	5124.6	5121.0
27.5°	8691.0	8468.6	8104.0	7541.9	6748.6	5932.1	5274.0	4864.9	4669.2	4582.1	4567.8
30°	8911.6	8676.8	8283.7	7358.7	6282.6	5323.8	4681.7	4393.5	4254.8	4167.6	4151.6
32.5°	9180.1	8959.6	8431.3	7026.1	5686.7	4688.8	4219.2	4018.2	3891.9	3794.1	3776.3
35°	9571.5	9333.1	8468.6	6549.4	5032.1	4187.2	3879.5	3673.1	3502.4	3376.1	3363.6
37.5°	10062.4	9800.9	8383.3	5932.1	4397.1	3861.7	3596.6	3342.3	3119.9	2942.1	2913.6
40°	10770.4	10375.5	8146.7	5220.6	3929.3	3610.9	3320.9	3031.0	2755.3	2547.2	2506.3
42.5°	11620.6	11049.6	7783.8	4512.7	3586.0	3356.5	3047.0	2687.7	2424.4	2276.8	2255.5
45°	12702.1	11750.4	7280.4	3893.7	3248.0	3102.1	2751.7	2420.9	2257.2	2148.7	2130.9
47.5°	13936.5	12536.7	6752.1	3390.3	2961.6	2863.8	2515.2	2301.7	2171.9	2086.5	2070.5
50°	15453.8	13424.3	6191.8	2977.6	2673.5	2577.4	2403.1	2235.9	2132.7	2066.9	2050.9
52.5°	17165.0	14425.7	5788.1	2652.1	2435.1	2365.7	2344.4	2200.3	2116.7	2066.9	2050.9
55°	19007.8	15444.9	5352.3	2378.2	2228.8	2248.3	2305.3	2203.9	2147.0	2086.5	2063.4
57.5°	20852.3	16497.9	4866.7	2147.0	2065.1	2161.2	2278.6	2211.0	2163.0	2104.3	2082.9
60°	22310.9	17165.0	4114.3	1953.1	1935.3	2065.1	2214.5	2157.6	2095.4	2097.1	2093.6
62.5°	22992.2	17129.4	3283.6	1780.5	1805.4	1935.3	2111.4	2074.0	2022.4	2091.8	2097.1
65°	22609.7	16275.6	2556.1	1624.0	1666.7	1800.1	2004.7	2033.1	2050.9	2184.3	2202.1
67.5°	21005.3	14614.2	1979.8	1487.0	1540.4	1707.6	2015.3	2214.5	2237.7	2378.2	2376.4
69°	19345.7	13056.0	1720.1	1415.9	1478.1	1730.7	2154.1	2330.2	2243.0	2392.4	2371.1
70°	17954.7	11823.4	1581.3	1367.9	1449.7	1771.6	2246.6	2328.4	2216.3	2344.4	2308.8
72.5°	13828.0	8506.0	1341.2	1278.9	1353.6	1695.2	2273.2	2276.8	2154.1	2179.0	2118.5
75°	9484.3	5375.4	1170.4	1158.0	1207.8	1527.9	2187.9	2175.4	1992.2	1956.6	1906.8
77.5°	5229.5	2730.4	994.3	1042.3	1076.1	1353.6	1988.6	1970.9	1819.7	1745.0	1727.2
80°	2017.1	1195.3	839.6	926.7	948.1	1172.2	1743.2	1727.2	1600.9	1504.8	1478.1
82.5°	761.3	626.1	693.7	802.2	795.1	967.6	1476.4	1467.5	1344.7	1204.2	1161.5
85°	352.2	375.3	549.6	661.7	610.1	716.8	1181.1	1197.1	1047.7	880.5	880.5
87.5°	149.4	209.9	389.5	499.8	410.9	483.8	866.3	827.1	759.5	526.5	494.5
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)