

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: P318691

Luminaire Tested: **GAN-SA7C-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45836 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 391
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

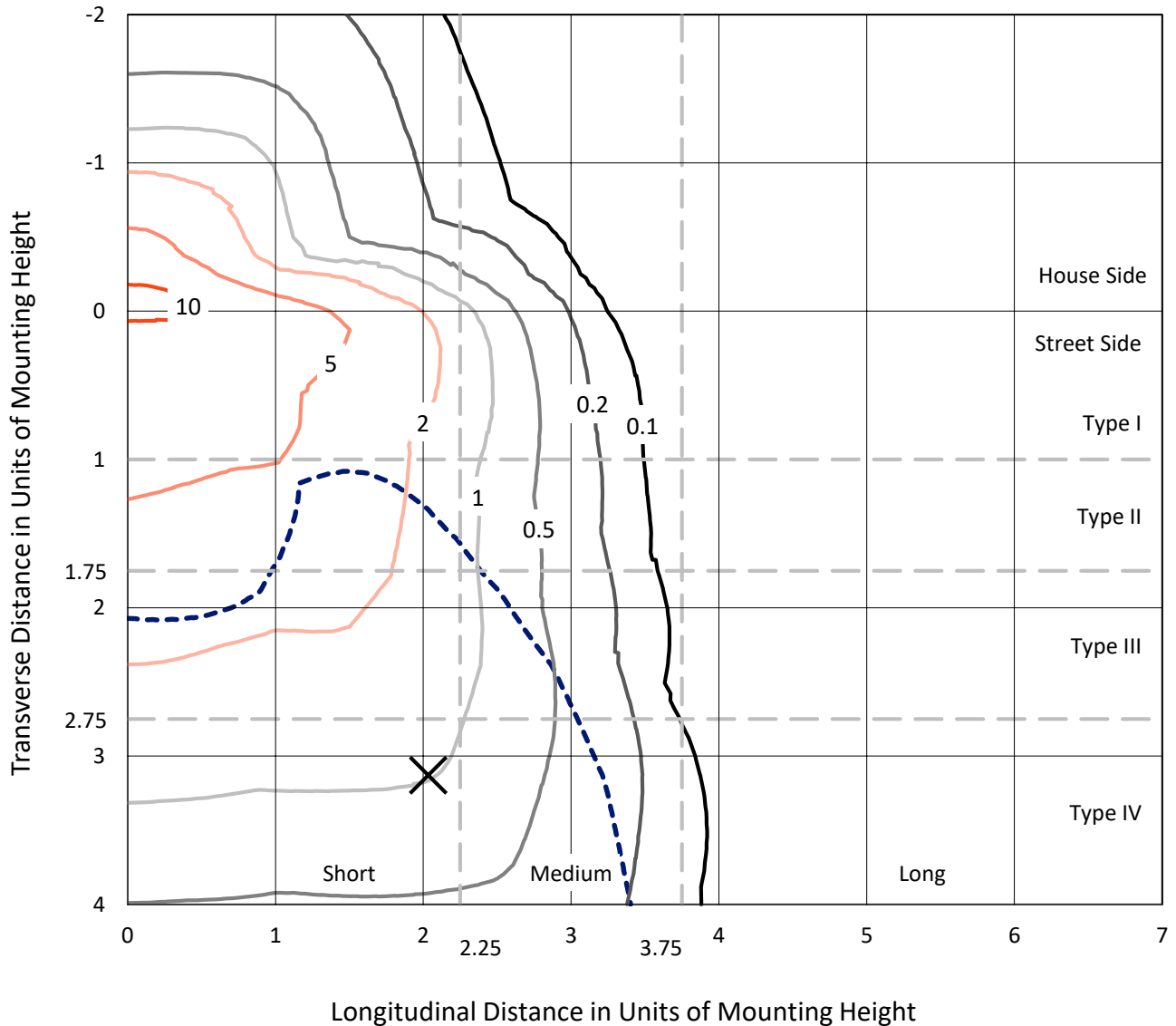




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Iso-Footcandle Lines of Horizontal Illumination

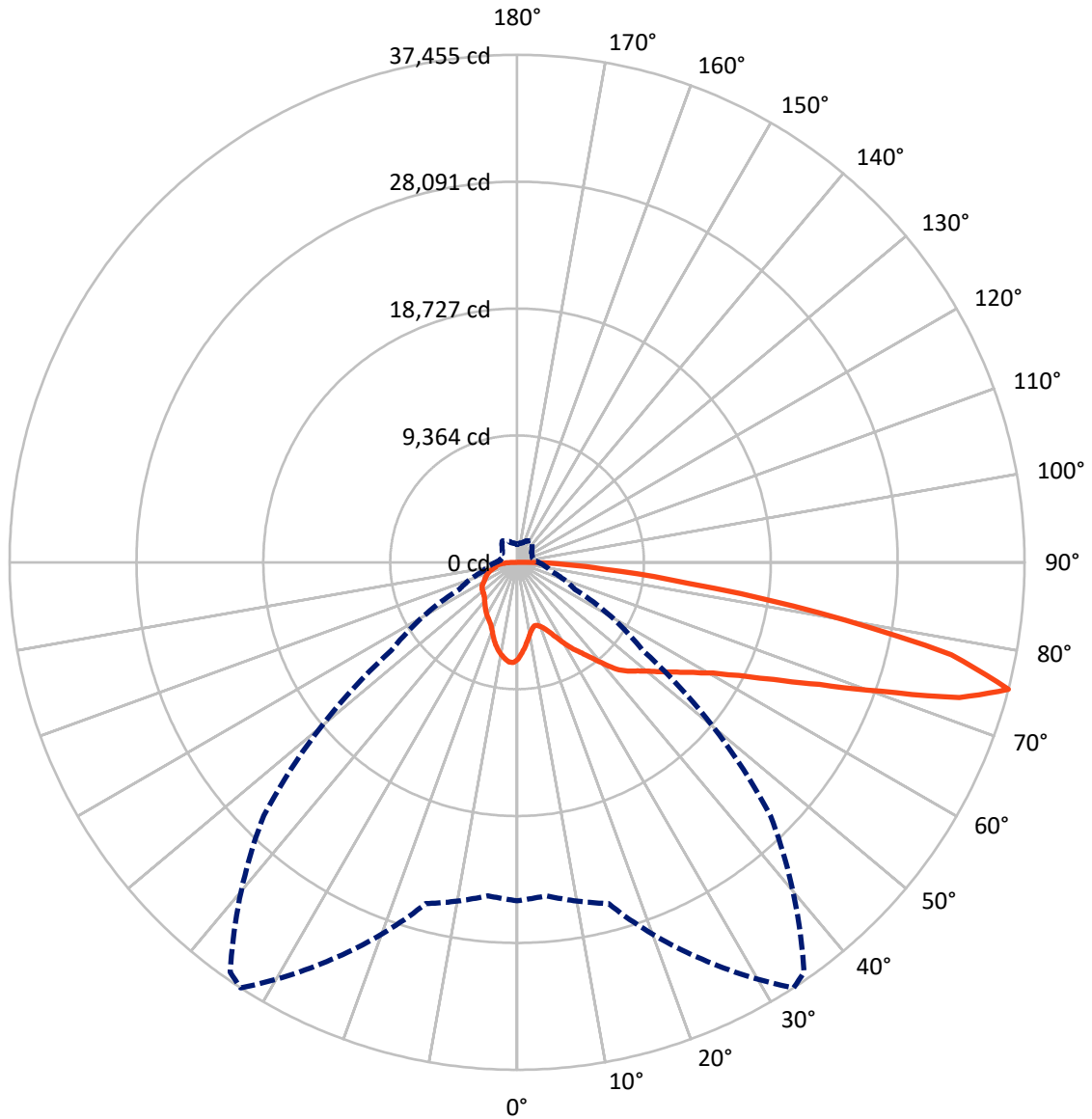
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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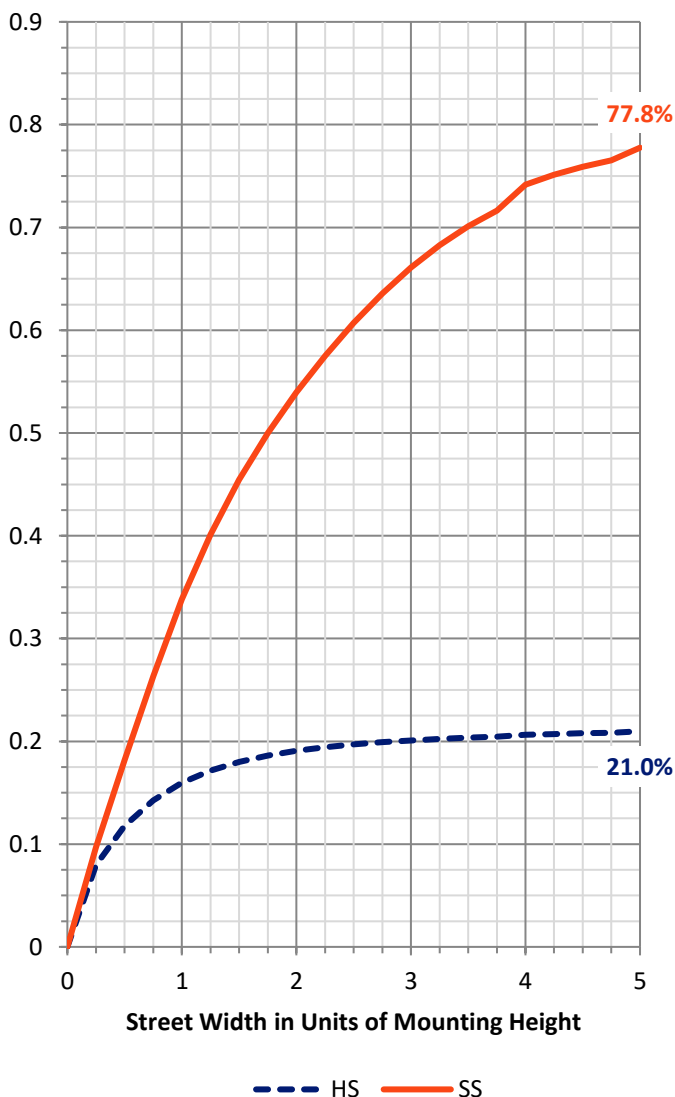
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9842.2	0.0	9842.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	35993.8	0.0	35993.8
	% Fixture	78.5	0.0	78.5
Total	Lumens	45836.0	0.0	45836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.9	1.4
10°-20°	1754.9	3.8
20°-30°	2866.0	6.3
30°-40°	4268.1	9.3
40°-50°	6121.6	13.4
50°-60°	8404.0	18.3
60°-70°	10521.5	23.0
70°-80°	9518.3	20.8
80°-90°	1733.8	3.8
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°	45836.0	100.0
0°-180°	45836.0	100.0

Coefficient of Utilization

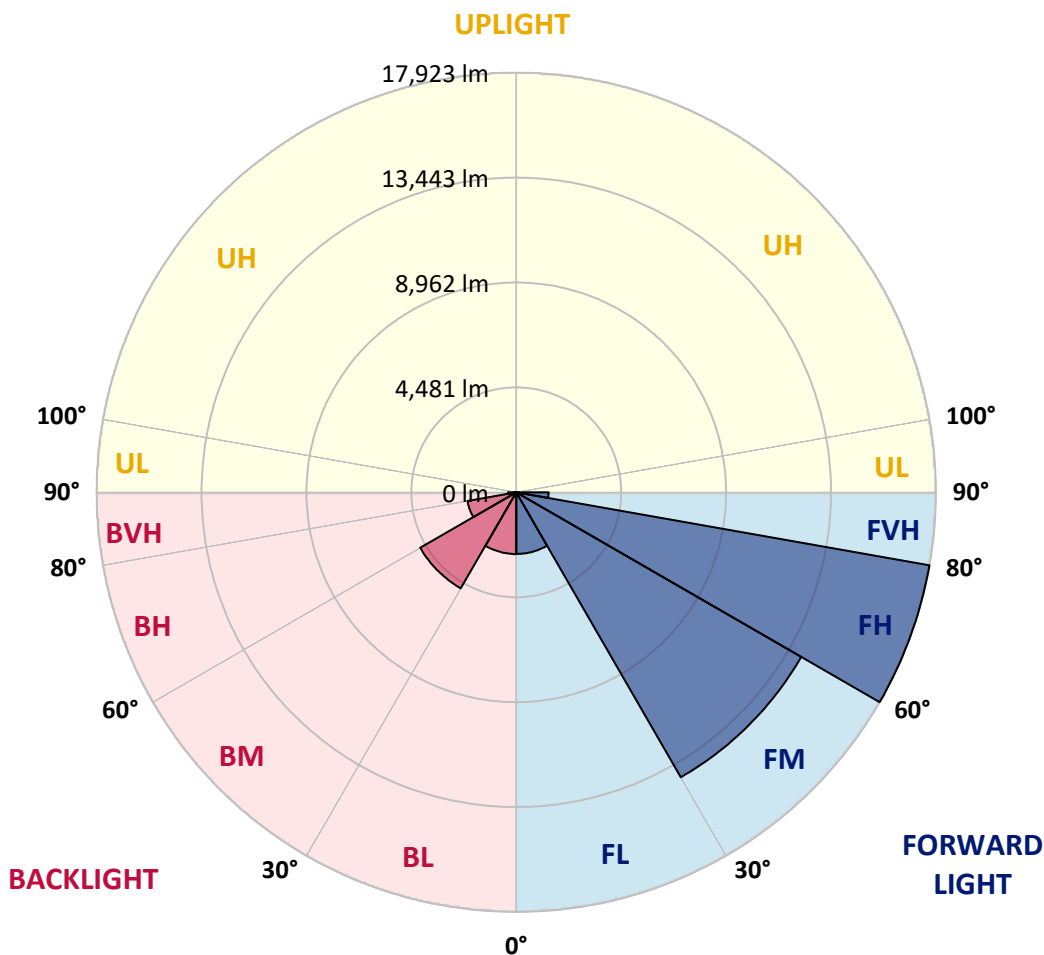


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2632.6	5.7			
FM (30°-60°)	14056.9	30.7			
FH (60°-80°)	17923.5	39.1			G5
FVH (80°-90°)	1380.8	3.0			G5
BL (0°-30°)	2636.2	5.8	B4/5000		
BM (30°-60°)	4736.8	10.3	B3/5000		
BH (60°-80°)	2116.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	353.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4
2.5°	6653.0	6627.7	6675.2	6681.5	6722.7	6738.5	6795.5	6884.2	6957.0	7040.9	7116.9
5°	6049.8	6032.4	6098.9	6146.4	6236.6	6274.6	6409.2	6597.6	6765.4	6955.4	7128.0
7.5°	5476.6	5467.1	5541.5	5649.2	5753.7	5806.0	6038.7	6312.6	6592.9	6900.0	7164.4
10°	4993.7	4990.6	5061.8	5167.9	5321.5	5380.0	5680.9	6041.9	6434.5	6857.3	7226.2
12.5°	4723.0	4734.1	4767.3	4856.0	4998.5	5057.1	5391.1	5815.5	6301.5	6843.0	7316.4
15°	4789.5	4806.9	4749.9	4746.7	4848.1	4894.0	5207.5	5654.0	6206.5	6866.8	7447.8
17.5°	5072.9	5076.1	4925.6	4830.6	4892.4	4916.1	5150.5	5562.1	6151.1	6920.6	7612.5
20°	5471.9	5464.0	5198.0	5039.6	5072.9	5079.2	5231.2	5563.7	6146.4	7014.0	7826.2
22.5°	6000.7	5942.1	5584.3	5369.0	5361.0	5351.5	5438.6	5680.9	6216.0	7166.0	8081.2
25°	6691.0	6635.6	6143.2	5848.7	5785.4	5761.6	5774.3	5931.0	6353.8	7329.1	8366.1
27.5°	7458.9	7362.3	6887.3	6470.9	6339.5	6306.3	6230.3	6284.1	6504.2	7485.8	8705.0
30°	8101.7	8049.5	7634.7	7140.7	6985.5	6938.0	6738.5	6679.9	6721.1	7699.6	9132.5
32.5°	8461.1	8426.3	8174.6	7775.6	7631.5	7565.0	7283.2	7166.0	7069.4	8036.8	9712.0
35°	8896.6	8874.4	8722.4	8432.6	8218.9	8149.2	7930.7	7808.8	7560.2	8500.7	10460.9
37.5°	9450.7	9427.0	9430.1	9195.8	8940.9	8876.0	8731.9	8603.6	8196.7	9110.3	11274.7
40°	10077.7	10031.8	10014.4	10003.3	9841.8	9805.4	9729.4	9555.2	8994.7	9838.6	12077.4
42.5°	11021.3	10858.3	10509.9	10641.3	10801.3	10782.3	10844.0	10593.8	9881.4	10699.9	12861.1
45°	11931.7	11664.2	11062.5	11091.0	11440.9	11547.0	12009.3	11832.0	10842.4	11643.6	13671.8
47.5°	12346.6	12143.9	11632.5	11634.1	11980.8	12200.9	13214.2	13087.5	11852.6	12715.5	14661.3
50°	12810.5	12607.8	12148.6	12321.2	12623.6	12858.0	14377.9	14313.0	12813.6	13888.7	15847.2
52.5°	13317.1	12973.5	12682.2	12991.0	13415.3	13687.6	15543.2	15365.9	13695.5	15069.8	17210.5
55°	13323.5	13230.0	13451.7	13678.1	14313.0	14647.1	16764.0	16295.3	14414.3	16230.4	18320.3
57.5°	14081.9	13929.9	14400.1	14504.6	15334.2	15711.1	17978.3	17104.4	15145.8	17120.2	18918.8
60°	15085.7	14955.8	15340.6	15616.1	16597.7	17101.2	19275.1	17935.6	15720.6	17791.5	18890.3
62.5°	16819.4	16672.1	16667.4	17053.7	18375.8	18961.6	20730.1	18751.0	15948.6	17924.5	18084.4
65°	19357.4	19123.1	18681.3	18865.0	20831.5	21415.7	22356.2	19341.6	15647.7	17212.0	16008.7
67.5°	21827.3	21819.4	21276.4	21653.2	24074.0	24542.7	24208.6	19400.2	14708.8	14731.0	12326.0
70°	24289.4	24321.0	24229.2	25540.2	28455.0	28942.7	26181.4	18613.3	12598.3	10638.2	7384.5
72.5°	26240.0	26232.1	26694.4	30074.7	34140.7	34031.4	27843.9	16228.8	9045.4	5742.6	3529.2
75°	24976.5	24701.0	26078.5	32319.9	37454.5	36920.9	26430.0	11320.6	4694.5	2614.0	1900.0
77.5°	16290.6	16551.8	18573.7	26699.2	32761.6	32112.5	19390.7	5281.9	2211.9	1714.7	1377.5
80°	5899.4	6174.9	8697.1	15123.7	22571.5	22465.4	9548.9	2170.7	1496.2	1295.1	1003.8
82.5°	2029.8	2131.1	3431.0	6716.4	12744.0	13219.0	3592.5	1233.4	1087.7	918.3	687.2
85°	796.4	912.0	1569.0	3231.5	6428.2	6475.7	1455.1	737.8	756.8	601.7	376.8
87.5°	302.4	367.3	750.5	1501.0	2935.4	2696.4	520.9	351.5	430.7	357.8	178.9
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°	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4	7164.4
2.5°	7175.5	7208.8	7278.4	7325.9	7376.6	7390.8	7397.2	7409.8	7422.5	7417.8	7419.3
5°	7219.8	7284.8	7397.2	7444.7	7466.8	7441.5	7392.4	7352.8	7324.3	7308.5	7303.8
7.5°	7292.7	7384.5	7504.8	7496.9	7446.3	7333.8	7207.2	7112.2	7033.0	7004.5	6988.7
10°	7389.3	7496.9	7580.8	7490.6	7343.3	7148.6	6958.6	6811.3	6692.6	6646.7	6638.8
12.5°	7512.7	7622.0	7637.8	7446.3	7202.4	6936.4	6678.4	6483.6	6306.3	6249.3	6236.6
15°	7672.7	7775.6	7677.4	7368.7	7028.3	6670.4	6336.4	6071.9	5885.1	5815.5	5790.1
17.5°	7840.5	7938.7	7685.3	7240.4	6800.3	6355.4	5935.8	5665.0	5451.3	5370.5	5361.0
20°	8041.6	8085.9	7652.1	7056.8	6486.8	5946.9	5505.1	5250.2	5136.2	5079.2	5072.9
22.5°	8290.1	8242.6	7576.1	6808.2	6089.4	5475.0	5115.6	4996.9	4968.4	4955.7	4960.5
25°	8553.0	8407.3	7463.7	6483.6	5587.5	5003.2	4830.6	4863.9	4901.9	4897.1	4897.1
27.5°	8842.7	8575.1	7291.1	6052.9	5031.7	4616.9	4637.5	4759.4	4816.4	4814.8	4813.2
30°	9214.8	8765.1	7071.0	5535.2	4512.4	4344.6	4469.7	4618.5	4696.1	4692.9	4694.5
32.5°	9672.4	8974.1	6771.8	4957.3	4137.2	4143.5	4287.6	4434.8	4525.1	4517.1	4518.7
35°	10207.5	9208.5	6366.4	4387.3	3888.6	3983.6	4097.6	4200.5	4286.0	4274.9	4263.8
37.5°	10790.2	9438.0	5828.1	3877.5	3685.9	3834.7	3929.7	3947.2	3986.7	3958.2	3937.7
40°	11344.3	9613.8	5134.6	3459.5	3481.7	3708.1	3769.8	3700.2	3628.9	3619.4	3590.9
42.5°	11827.2	9672.4	4433.2	3125.4	3266.3	3575.1	3613.1	3467.4	3339.2	3279.0	3253.7
45°	12337.1	9693.0	3779.3	2845.2	3058.9	3456.3	3497.5	3302.8	3122.3	2992.4	2949.7
47.5°	13003.6	9841.8	3271.1	2637.8	2900.6	3377.2	3435.8	3171.3	2937.0	2751.8	2712.2
50°	13876.0	10136.3	2857.9	2479.4	2797.7	3324.9	3391.4	3043.1	2785.0	2561.8	2522.2
52.5°	14845.0	10407.0	2523.8	2351.2	2697.9	3233.1	3334.4	2951.3	2642.5	2386.0	2343.3
55°	15522.7	10199.6	2254.6	2218.2	2568.1	3101.7	3255.3	2873.7	2438.3	2215.0	2177.0
57.5°	15652.5	9490.3	2050.4	2080.5	2411.4	2937.0	3133.3	2701.1	2327.4	2140.6	2101.0
60°	15297.8	8502.3	1898.4	1953.8	2243.5	2729.6	2905.4	2579.2	2221.4	2061.5	2028.2
62.5°	14406.4	7490.6	1786.0	1839.8	2086.8	2519.0	2762.9	2450.9	2113.7	1971.2	1938.0
65°	12606.2	6288.9	1678.3	1738.5	1941.1	2336.9	2634.6	2332.2	2007.6	1898.4	1866.7
67.5°	9515.6	4710.3	1577.0	1630.8	1811.3	2178.6	2495.3	2215.0	1904.7	1835.0	1797.0
70°	5603.3	2949.7	1461.4	1518.4	1675.1	2014.0	2346.4	2086.8	1776.5	1744.8	1695.7
72.5°	2607.7	1774.9	1330.0	1385.4	1504.1	1793.9	2154.9	1919.0	1624.5	1554.8	1488.3
75°	1556.4	1298.3	1174.8	1223.9	1307.8	1559.5	1914.2	1748.0	1480.4	1388.6	1318.9
77.5°	1163.7	992.7	1003.8	1056.1	1124.1	1364.8	1695.7	1613.4	1369.6	1298.3	1250.8
80°	837.6	753.6	818.6	875.6	946.8	1241.3	1624.5	1491.5	1238.1	1143.1	1098.8
82.5°	558.9	541.5	615.9	674.5	744.2	1086.1	1526.3	1306.2	1057.6	937.3	839.1
85°	308.7	326.2	414.8	440.2	500.3	764.7	1250.8	1049.7	796.4	641.2	612.7
87.5°	128.2	150.4	223.2	215.3	266.0	456.0	823.3	633.3	506.7	378.4	294.5
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)