

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: P318741

Luminaire Tested: **GAN-SA7D-740-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318741  
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-SA7D-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA 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: 55212 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

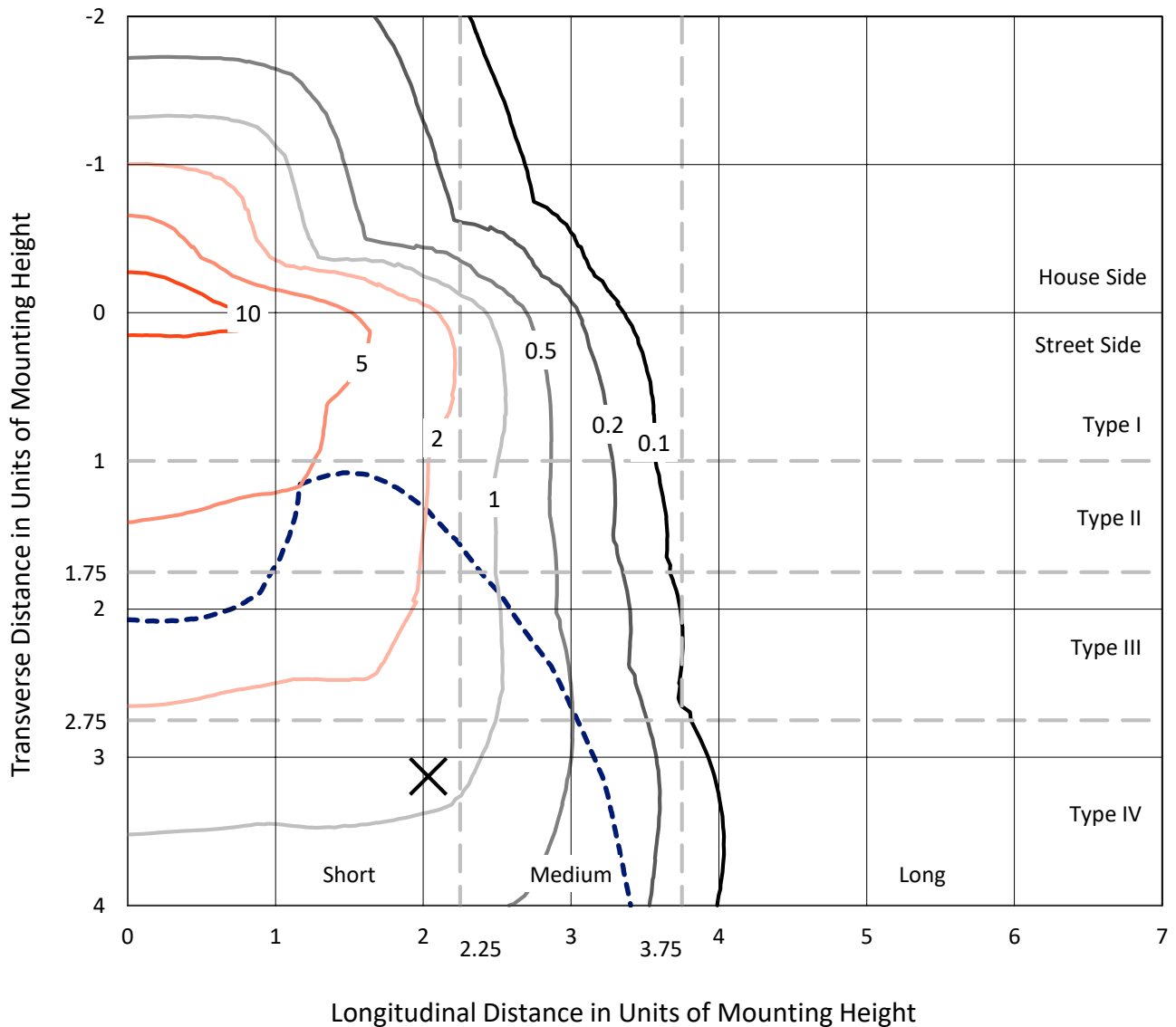
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

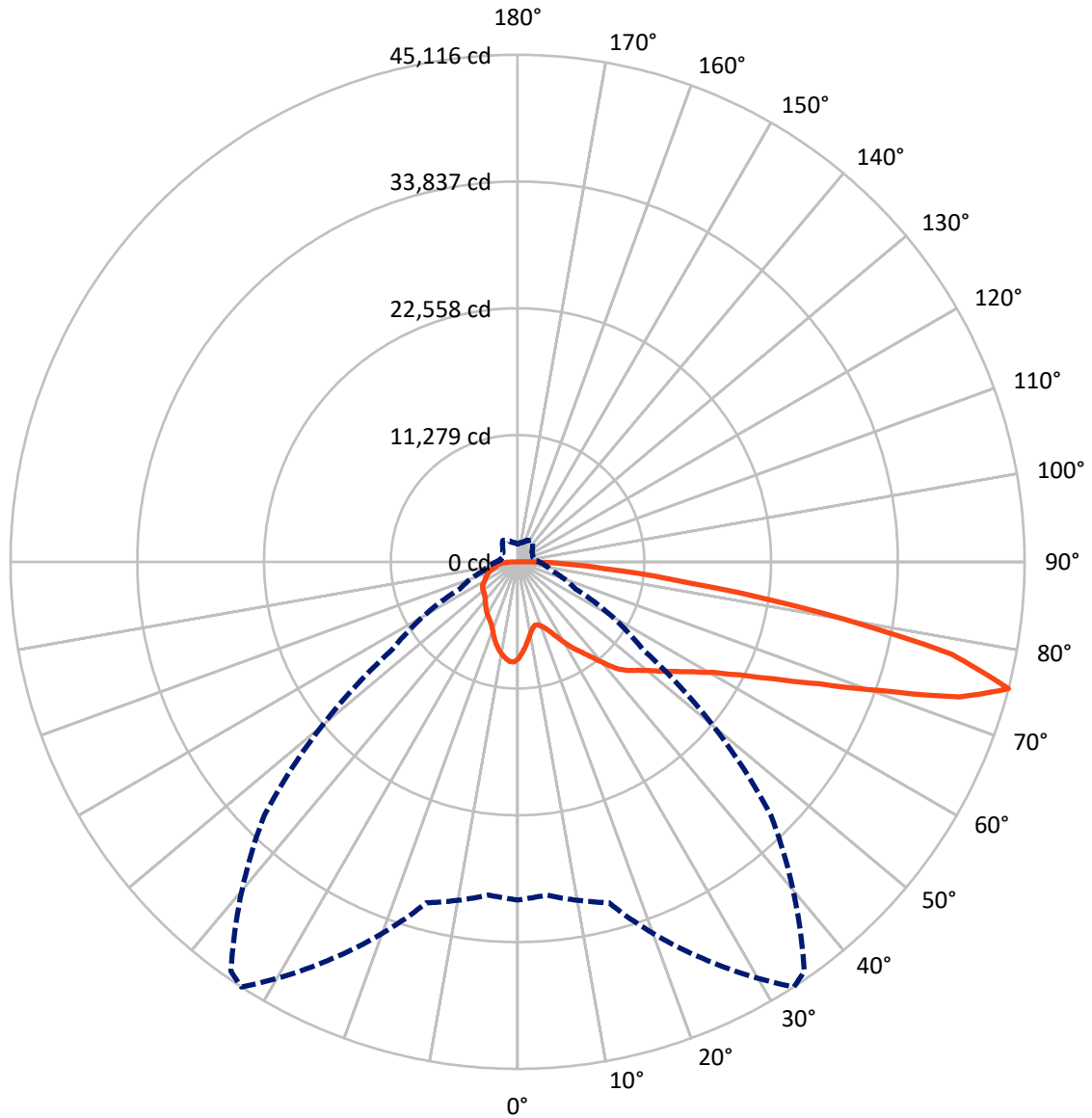
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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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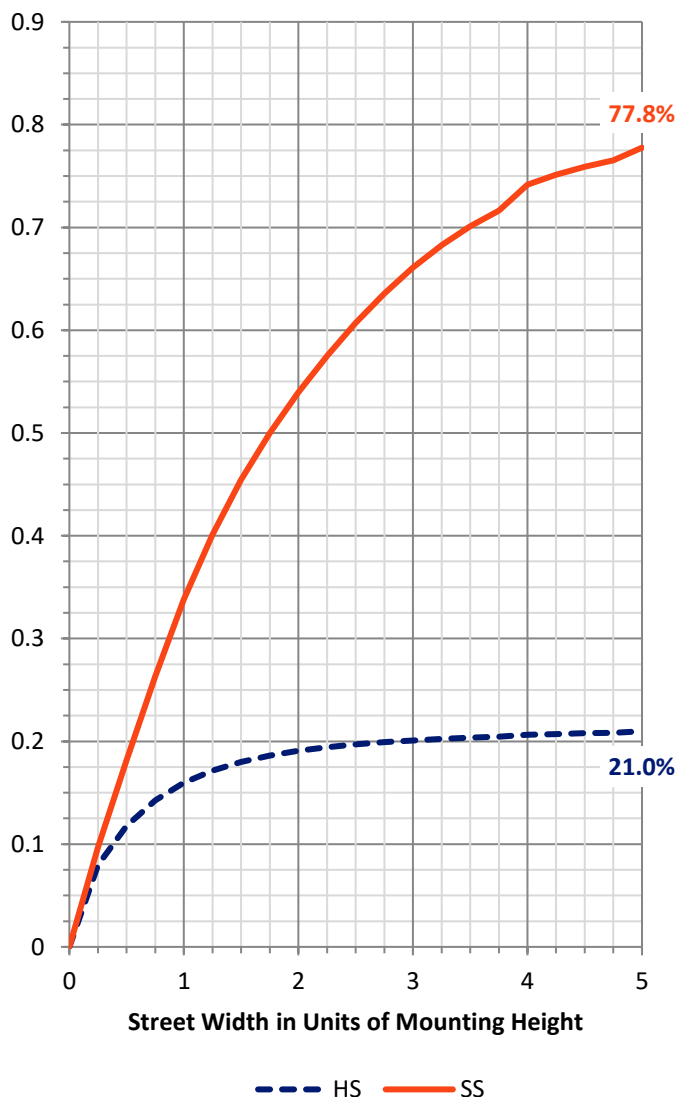
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11855.5	0.0	11855.5
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	43356.5	0.0	43356.5
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	55212.0	0.0	55212.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	780.5	1.4
10°-20°	2113.8	3.8
20°-30°	3452.2	6.3
30°-40°	5141.2	9.3
40°-50°	7373.8	13.4
50°-60°	10123.1	18.3
60°-70°	12673.7	23.0
70°-80°	11465.3	20.8
80°-90°	2088.5	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°	55212.0	100.0
0°-180°	55212.0	100.0

**Coefficient of Utilization**

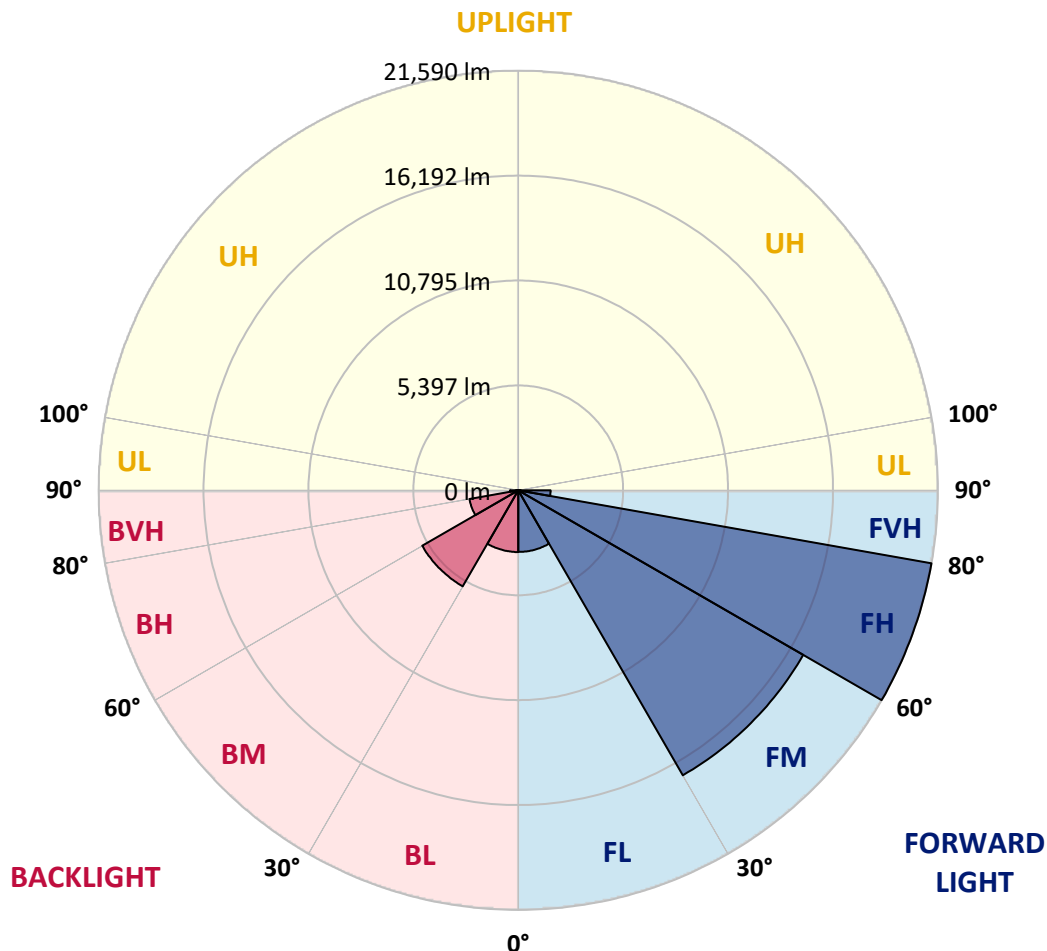


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3171.1	5.7			
FM (30°-60°)	16932.4	30.7			
FH (60°-80°)	21589.8	39.1			G5
FVH (80°-90°)	1663.3	3.0			G5
BL (0°-30°)	3175.4	5.8	B4/5000		
BM (30°-60°)	5705.7	10.3	B4/8500		
BH (60°-80°)	2549.1	4.6	B4/5000		G4/5000
BVH (80°-90°)	425.2	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°	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9
2.5°	8013.9	7983.4	8040.6	8048.3	8097.8	8116.9	8185.6	8292.4	8380.1	8481.2	8572.7
5°	7287.3	7266.3	7346.4	7403.6	7512.3	7558.1	7720.2	7947.2	8149.3	8378.2	8586.1
7.5°	6596.9	6585.5	6675.1	6804.8	6930.7	6993.6	7273.9	7603.9	7941.5	8311.4	8629.9
10°	6015.2	6011.4	6097.2	6225.0	6410.0	6480.6	6842.9	7277.8	7750.7	8260.0	8704.3
12.5°	5689.1	5702.4	5742.5	5849.3	6020.9	6091.5	6493.9	7005.0	7590.5	8242.8	8813.0
15°	5769.2	5790.2	5721.5	5717.7	5839.8	5895.1	6272.7	6810.5	7476.1	8271.4	8971.3
17.5°	6110.6	6114.4	5933.2	5818.8	5893.2	5921.8	6204.0	6699.9	7409.4	8336.2	9169.7
20°	6591.2	6581.6	6261.2	6070.5	6110.6	6118.2	6301.3	6701.8	7403.6	8448.8	9427.1
22.5°	7228.2	7157.6	6726.6	6467.2	6457.7	6446.2	6551.1	6842.9	7487.6	8631.9	9734.2
25°	8059.7	7993.0	7399.8	7045.1	6968.8	6940.2	6955.4	7144.3	7653.5	8828.3	10077.5
27.5°	8984.7	8868.3	8296.2	7794.6	7636.3	7596.3	7504.7	7569.6	7834.7	9017.1	10485.6
30°	9759.0	9696.1	9196.4	8601.3	8414.4	8357.2	8116.9	8046.4	8095.9	9274.6	11000.6
32.5°	10191.9	10150.0	9846.7	9366.1	9192.6	9112.5	8773.0	8631.9	8515.5	9680.8	11698.6
35°	10716.4	10689.7	10506.6	10157.6	9900.1	9816.2	9553.0	9406.2	9106.7	10239.6	12600.7
37.5°	11383.9	11355.3	11359.1	11076.8	10769.8	10691.6	10518.0	10363.6	9873.4	10973.9	13581.0
40°	12139.1	12083.8	12062.9	12049.5	11855.0	11811.1	11719.6	11509.8	10834.6	11851.2	14547.9
42.5°	13275.8	13079.4	12659.8	12818.1	13010.7	12987.8	13062.2	12760.9	11902.6	12888.7	15491.9
45°	14372.4	14050.1	13325.4	13359.7	13781.2	13909.0	14465.9	14252.3	13060.3	14025.3	16468.4
47.5°	14872.1	14628.0	14012.0	14013.9	14431.6	14696.7	15917.2	15764.7	14277.1	15316.5	17660.4
50°	15430.9	15186.8	14633.7	14841.6	15205.9	15488.1	17319.0	17240.8	15434.7	16729.7	19088.9
52.5°	16041.2	15627.4	15276.4	15648.3	16159.5	16487.5	18722.7	18509.1	16497.0	18152.4	20730.9
55°	16048.8	15936.3	16203.3	16476.0	17240.8	17643.2	20193.1	19628.6	17362.9	19550.4	22067.9
57.5°	16962.4	16779.3	17345.7	17471.6	18470.9	18924.8	21655.9	20603.2	18244.0	20622.2	22788.8
60°	18171.5	18015.1	18478.6	18810.4	19992.9	20599.3	23217.9	21604.4	18936.3	21430.9	22754.4
62.5°	20259.9	20082.5	20076.8	20542.1	22134.6	22840.3	24970.6	22586.6	19210.9	21591.1	21783.7
65°	23317.1	23034.8	22502.7	22723.9	25092.6	25796.4	26929.2	23298.0	18848.6	20732.8	19283.4
67.5°	26292.2	26282.7	25628.6	26082.5	28998.5	29563.0	29160.6	23368.6	17717.6	17744.3	14847.3
70°	29257.9	29296.0	29185.4	30764.6	34275.7	34863.1	31537.0	22420.7	15175.4	12814.3	8895.0
72.5°	31607.5	31598.0	32154.9	36226.7	41124.3	40992.7	33539.5	19548.5	10895.7	6917.3	4251.1
75°	30085.6	29753.8	31413.0	38931.1	45116.0	44473.3	31836.4	13636.3	5654.8	3148.7	2288.6
77.5°	19622.9	19937.6	22373.0	32160.6	39463.2	38681.2	23357.1	6362.3	2664.3	2065.5	1659.2
80°	7106.1	7438.0	10476.1	18217.3	27188.6	27060.8	11502.1	2614.7	1802.3	1560.1	1209.1
82.5°	2445.0	2567.1	4132.8	8090.2	15350.8	15923.0	4327.4	1485.7	1310.2	1106.2	827.7
85°	959.3	1098.5	1890.0	3892.5	7743.1	7800.3	1752.7	888.7	911.6	724.7	453.9
87.5°	364.3	442.5	904.0	1808.0	3535.9	3247.9	627.5	423.4	518.8	431.0	215.5
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°	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9	8629.9
2.5°	8643.3	8683.3	8767.3	8824.5	8885.5	8902.7	8910.3	8925.6	8940.8	8935.1	8937.0
5°	8696.7	8774.9	8910.3	8967.5	8994.2	8963.7	8904.6	8856.9	8822.6	8803.5	8797.8
7.5°	8784.4	8895.0	9040.0	9030.5	8969.4	8834.0	8681.4	8567.0	8471.7	8437.3	8418.2
10°	8900.8	9030.5	9131.5	9022.8	8845.5	8610.9	8382.0	8204.6	8061.6	8006.3	7996.8
12.5°	9049.5	9181.1	9200.2	8969.4	8675.7	8355.3	8044.4	7809.9	7596.3	7527.6	7512.3
15°	9242.1	9366.1	9247.9	8876.0	8465.9	8034.9	7632.5	7314.0	7089.0	7005.0	6974.5
17.5°	9444.3	9562.6	9257.4	8721.5	8191.3	7655.4	7150.0	6823.9	6566.4	6469.1	6457.7
20°	9686.5	9739.9	9217.4	8500.3	7813.7	7163.3	6631.2	6324.2	6186.9	6118.2	6110.6
22.5°	9985.9	9928.7	9125.8	8200.8	7335.0	6595.0	6162.1	6019.0	5984.7	5969.4	5975.2
25°	10302.5	10127.1	8990.4	7809.9	6730.4	6026.7	5818.8	5858.8	5904.6	5898.9	5898.9
27.5°	10651.5	10329.2	8782.5	7291.1	6061.0	5561.3	5586.1	5733.0	5801.6	5799.7	5797.8
30°	11099.7	10558.1	8517.4	6667.5	5435.4	5233.3	5383.9	5563.2	5656.7	5652.9	5654.8
32.5°	11650.9	10809.8	8157.0	5971.3	4983.4	4991.1	5164.6	5342.0	5450.7	5441.2	5443.1
35°	12295.5	11092.1	7668.7	5284.8	4684.0	4798.4	4935.8	5059.7	5162.7	5149.4	5136.0
37.5°	12997.4	11368.6	7020.3	4670.7	4439.9	4619.2	4733.6	4754.6	4802.3	4767.9	4743.1
40°	13664.9	11580.3	6185.0	4167.2	4193.9	4466.6	4541.0	4457.1	4371.2	4359.8	4325.5
42.5°	14246.6	11650.9	5340.1	3764.8	3934.5	4306.4	4352.2	4176.7	4022.2	3949.7	3919.2
45°	14860.7	11675.7	4552.4	3427.2	3684.7	4163.4	4212.9	3978.4	3760.9	3604.6	3553.1
47.5°	15663.6	11855.0	3940.2	3177.3	3493.9	4068.0	4138.6	3820.1	3537.8	3314.7	3267.0
50°	16714.4	12209.7	3442.4	2986.6	3370.0	4005.1	4085.2	3665.6	3354.7	3085.8	3038.1
52.5°	17881.6	12535.8	3040.0	2832.1	3249.8	3894.4	4016.5	3555.0	3183.1	2874.1	2822.6
55°	18697.9	12286.0	2715.8	2671.9	3093.4	3736.1	3921.1	3461.5	2937.0	2668.1	2622.4
57.5°	18854.3	11431.6	2469.8	2506.0	2904.6	3537.8	3774.3	3253.6	2803.5	2578.5	2530.8
60°	18427.1	10241.5	2286.7	2353.4	2702.5	3288.0	3499.7	3106.8	2675.8	2483.1	2443.1
62.5°	17353.3	9022.8	2151.3	2216.1	2513.7	3034.3	3328.0	2952.3	2546.1	2374.4	2334.4
65°	15184.9	7575.3	2021.6	2094.1	2338.2	2815.0	3173.5	2809.3	2418.3	2286.7	2248.6
67.5°	11462.1	5673.8	1899.5	1964.4	2181.8	2624.3	3005.7	2668.1	2294.3	2210.4	2164.6
70°	6749.5	3553.1	1760.3	1829.0	2017.8	2425.9	2826.4	2513.7	2139.8	2101.7	2042.6
72.5°	3141.1	2137.9	1602.0	1668.8	1811.8	2160.8	2595.7	2311.5	1956.8	1872.8	1792.7
75°	1874.7	1563.9	1415.1	1474.2	1575.3	1878.6	2305.8	2105.5	1783.2	1672.6	1588.7
77.5°	1401.8	1195.8	1209.1	1272.1	1354.1	1644.0	2042.6	1943.4	1649.7	1563.9	1506.7
80°	1008.9	907.8	986.0	1054.7	1140.5	1495.2	1956.8	1796.6	1491.4	1377.0	1323.6
82.5°	673.2	652.3	741.9	812.5	896.4	1308.3	1838.5	1573.4	1274.0	1129.0	1010.8
85°	371.9	392.9	499.7	530.2	602.7	921.2	1506.7	1264.5	959.3	772.4	738.1
87.5°	154.5	181.2	268.9	259.4	320.4	549.3	991.7	762.9	610.3	455.8	354.7
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)