

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: P318742

Luminaire Tested: **GAN-SA8D-740-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318742  
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-SA8D-740-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 62558 lumens  
Efficiency: N/A  
Efficacy: 122.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

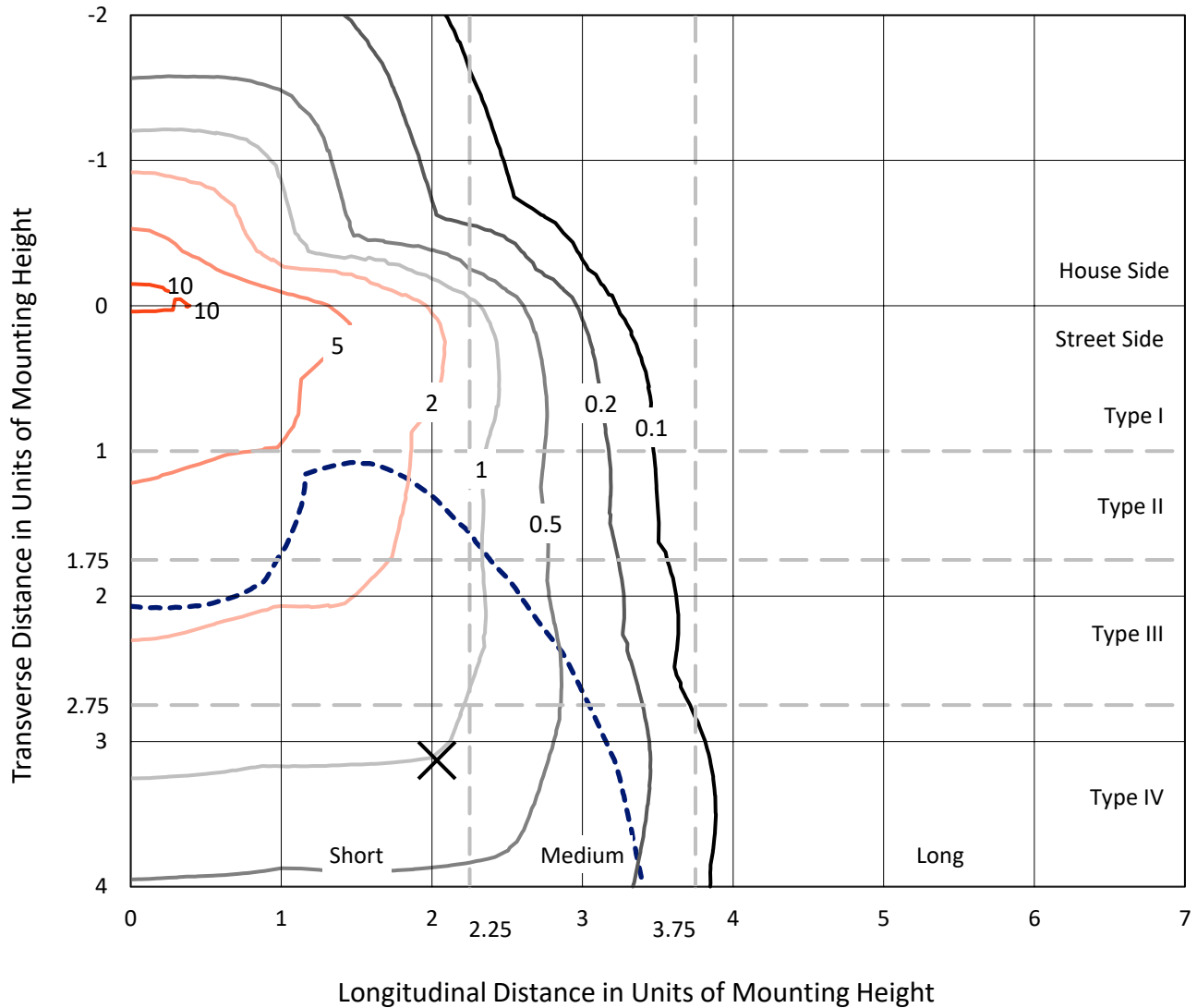
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

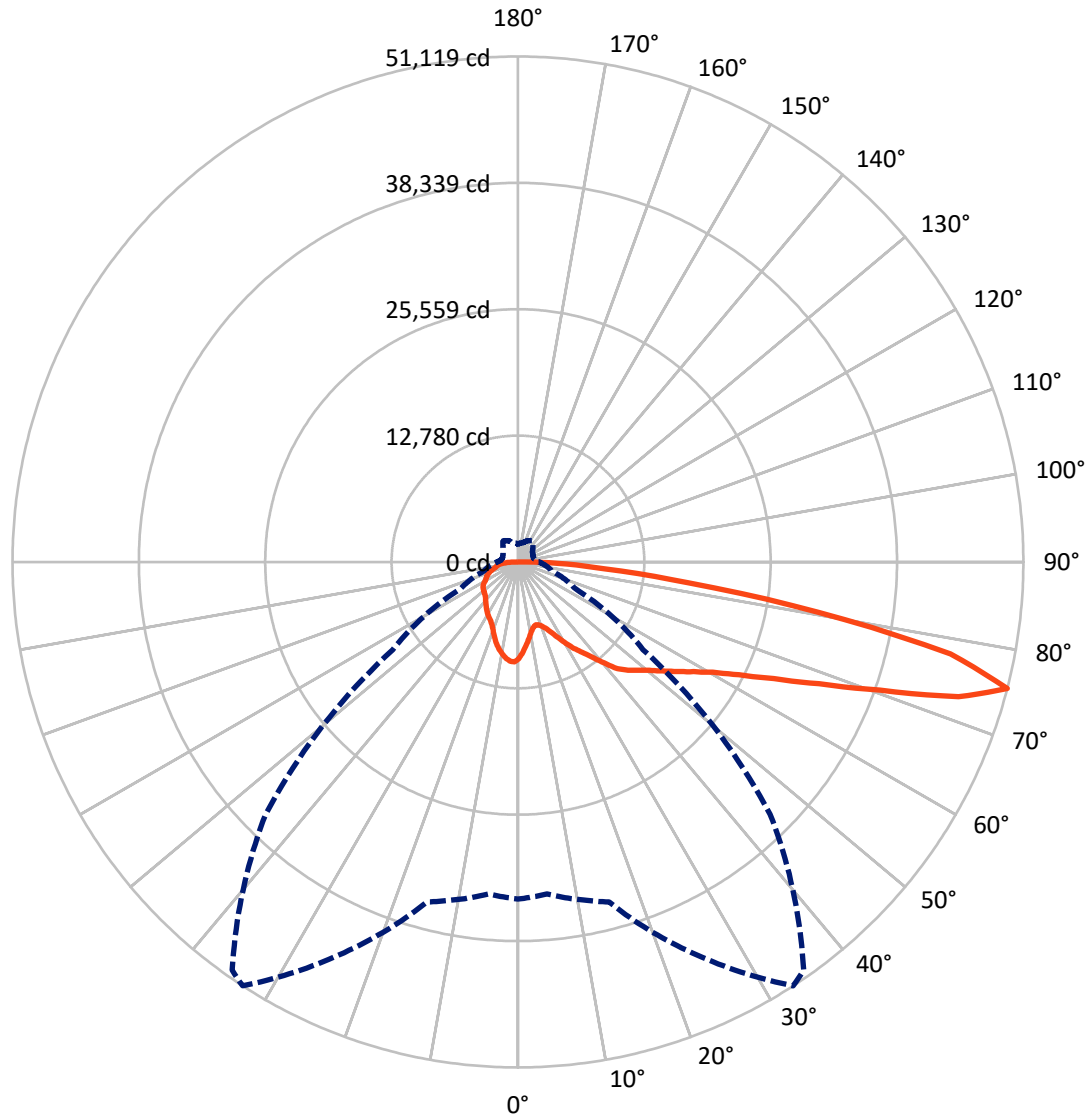
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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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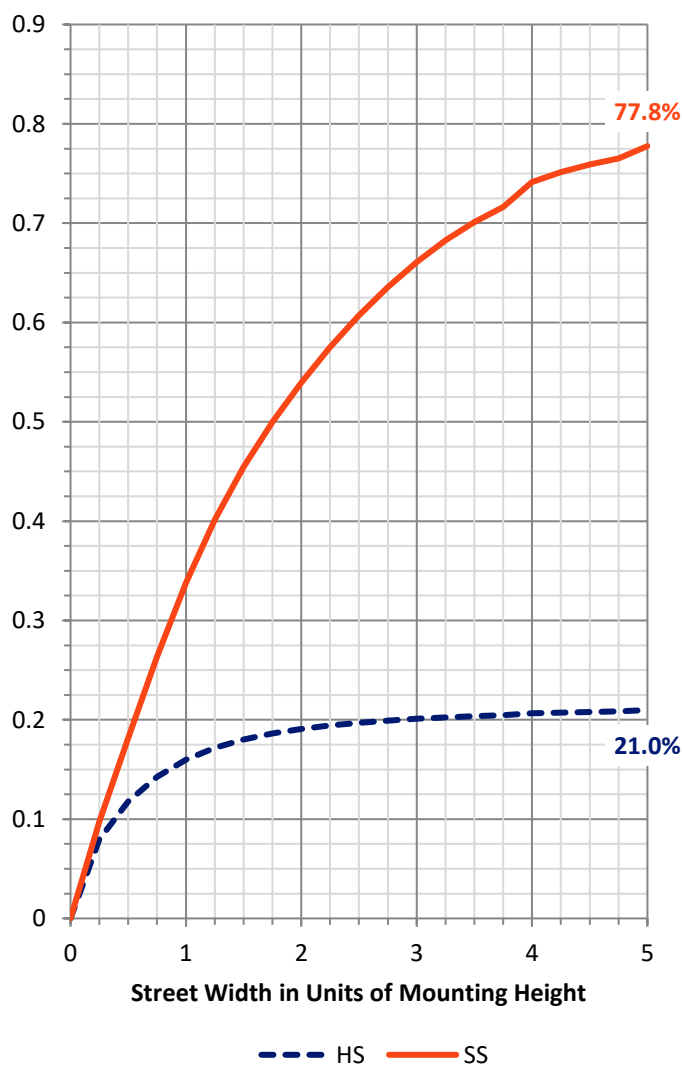
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13432.8	0.0	13432.8
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	49125.2	0.0	49125.2
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	62558.0	0.0	62558.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	884.3	1.4
10°-20°	2395.1	3.8
20°-30°	3911.5	6.3
30°-40°	5825.2	9.3
40°-50°	8354.9	13.4
50°-60°	11470.0	18.3
60°-70°	14359.9	23.0
70°-80°	12990.7	20.8
80°-90°	2366.3	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°	62558.0	100.0
0°-180°	62558.0	100.0

**Coefficient of Utilization**

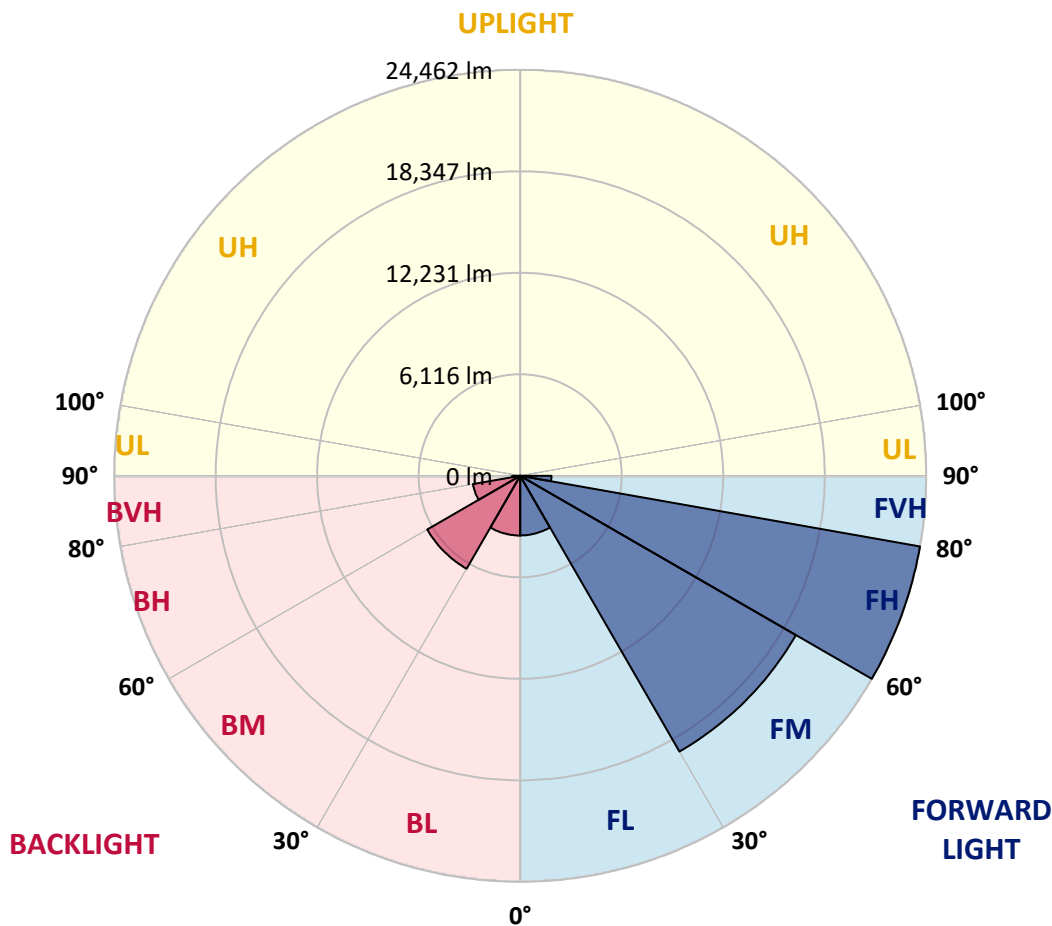


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3593.0	5.7			
FM (30°-60°)	19185.2	30.7			
FH (60°-80°)	24462.4	39.1			G5
FVH (80°-90°)	1884.6	3.0			G5
BL (0°-30°)	3597.9	5.8	B4/5000		
BM (30°-60°)	6464.8	10.3	B4/8500		
BH (60°-80°)	2888.3	4.6	B4/5000		G4/5000
BVH (80°-90°)	481.8	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°	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2
2.5°	9080.2	9045.6	9110.4	9119.1	9175.3	9196.9	9274.7	9395.7	9495.1	9609.6	9713.3
5°	8256.9	8233.1	8323.9	8388.7	8511.9	8563.7	8747.4	9004.6	9233.6	9492.9	9728.5
7.5°	7474.6	7461.7	7563.2	7710.2	7852.8	7924.1	8241.8	8615.6	8998.1	9417.3	9778.2
10°	6815.5	6811.2	6908.5	7053.2	7262.9	7342.8	7753.4	8246.1	8782.0	9358.9	9862.4
12.5°	6446.0	6461.2	6506.5	6627.5	6822.0	6902.0	7357.9	7937.1	8600.5	9339.5	9985.6
15°	6536.8	6560.6	6482.8	6478.4	6616.7	6679.4	7107.3	7716.6	8470.8	9371.9	10165.0
17.5°	6923.6	6927.9	6722.6	6593.0	6677.2	6709.7	7029.5	7591.3	8395.2	9445.4	10389.7
20°	7468.1	7457.3	7094.3	6878.2	6923.6	6932.2	7139.7	7593.5	8388.7	9572.9	10681.4
22.5°	8189.9	8109.9	7621.6	7327.7	7316.9	7303.9	7422.8	7753.4	8483.8	9780.3	11029.3
25°	9132.1	9056.4	8384.4	7982.4	7896.0	7863.6	7880.9	8094.8	8671.8	10002.9	11418.3
27.5°	10180.1	10048.3	9400.0	8831.7	8652.3	8606.9	8503.2	8576.7	8877.1	10216.8	11880.7
30°	11057.4	10986.1	10420.0	9745.8	9534.0	9469.2	9196.9	9116.9	9173.1	10508.6	12464.2
32.5°	11548.0	11500.4	11156.8	10612.3	10415.6	10324.9	9940.2	9780.3	9648.5	10968.8	13255.1
35°	12142.2	12112.0	11904.5	11509.1	11217.3	11122.3	10824.1	10657.7	10318.4	11602.0	14277.2
37.5°	12898.5	12866.1	12870.4	12550.6	12202.7	12114.1	11917.5	11742.4	11187.1	12433.9	15387.9
40°	13754.3	13691.6	13667.8	13652.7	13432.3	13382.6	13278.9	13041.2	12276.2	13428.0	16483.5
42.5°	15042.2	14819.6	14344.2	14523.5	14741.8	14715.9	14800.1	14458.7	13486.3	14603.5	17553.2
45°	16284.7	15919.5	15098.4	15137.2	15614.8	15759.6	16390.6	16148.6	14798.0	15891.4	18659.6
47.5°	16850.9	16574.3	15876.3	15878.4	16351.7	16652.1	18035.0	17862.2	16176.7	17354.4	20010.1
50°	17484.0	17207.4	16580.7	16816.3	17229.0	17548.8	19623.3	19534.7	17488.3	18955.6	21628.7
52.5°	18175.5	17706.6	17309.0	17730.4	18309.5	18681.2	21213.8	20971.7	18692.0	20567.6	23489.2
55°	18184.1	18056.7	18359.2	18668.2	19534.7	19990.7	22879.8	22240.2	19673.0	22151.6	25004.0
57.5°	19219.2	19011.8	19653.6	19796.2	20928.5	21442.8	24537.3	23344.4	20671.4	23366.0	25820.8
60°	20589.3	20412.1	20937.2	21313.2	22652.9	23340.1	26307.0	24478.9	21455.8	24282.3	25781.9
62.5°	22955.5	22754.5	22748.0	23275.3	25079.6	25879.2	28292.9	25591.8	21767.0	24463.8	24682.0
65°	26419.4	26099.6	25496.7	25747.4	28431.2	29228.6	30512.2	26397.8	21356.4	23491.4	21849.1
67.5°	29790.5	29779.6	29038.5	29552.8	32856.8	33496.4	33040.5	26477.8	20075.0	20105.2	16822.8
70°	33150.7	33193.9	33068.6	34857.8	38836.1	39501.6	35733.0	25403.8	17194.4	14519.2	10078.5
72.5°	35812.9	35802.1	36433.1	41046.7	46595.9	46446.8	38002.0	22149.4	12345.3	7837.7	4816.7
75°	34088.5	33712.5	35592.5	44110.9	51118.7	50390.5	36072.2	15450.6	6407.1	3567.7	2593.1
77.5°	22233.7	22590.3	25349.8	36439.6	44713.8	43827.8	26464.8	7208.8	3018.8	2340.3	1880.0
80°	8051.6	8427.6	11869.9	20641.1	30806.1	30661.3	13032.5	2962.6	2042.1	1767.6	1370.0
82.5°	2770.3	2908.6	4682.7	9166.6	17393.3	18041.5	4903.1	1683.4	1484.6	1253.3	937.8
85°	1086.9	1244.7	2141.5	4410.4	8773.3	8838.2	1985.9	1007.0	1032.9	821.1	514.3
87.5°	412.7	501.3	1024.3	2048.6	4006.3	3680.0	710.9	479.7	587.8	488.4	244.2
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°	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2	9778.2
2.5°	9793.3	9838.7	9933.8	9998.6	10067.7	10087.2	10095.8	10113.1	10130.4	10123.9	10126.1
5°	9853.8	9942.4	10095.8	10160.6	10190.9	10156.3	10089.3	10035.3	9996.4	9974.8	9968.3
7.5°	9953.2	10078.5	10242.8	10232.0	10162.8	10009.4	9836.5	9706.9	9598.8	9559.9	9538.3
10°	10085.0	10232.0	10346.5	10223.3	10022.4	9756.6	9497.2	9296.3	9134.2	9071.5	9060.7
12.5°	10253.6	10402.7	10424.3	10162.8	9830.0	9467.0	9114.8	8849.0	8606.9	8529.2	8511.9
15°	10471.8	10612.3	10478.3	10056.9	9592.3	9104.0	8648.0	8287.1	8032.1	7937.1	7902.5
17.5°	10700.9	10834.9	10489.1	9881.9	9281.2	8673.9	8101.3	7731.8	7440.0	7329.8	7316.9
20°	10975.3	11035.8	10443.7	9631.2	8853.3	8116.4	7513.5	7165.6	7010.0	6932.2	6923.6
22.5°	11314.6	11249.8	10340.0	9292.0	8310.9	7472.5	6981.9	6819.9	6781.0	6763.7	6770.2
25°	11673.3	11474.5	10186.6	8849.0	7625.9	6828.5	6593.0	6638.3	6690.2	6683.7	6683.7
27.5°	12068.7	11703.5	9951.0	8261.2	6867.4	6301.2	6329.3	6495.7	6573.5	6571.4	6569.2
30°	12576.6	11962.9	9650.7	7554.6	6158.6	5929.6	6100.3	6303.4	6409.3	6405.0	6407.1
32.5°	13201.1	12248.1	9242.3	6765.8	5646.5	5655.1	5851.8	6052.7	6175.9	6165.1	6167.3
35°	13931.5	12567.9	8689.1	5987.9	5307.2	5436.9	5592.5	5732.9	5849.6	5834.5	5819.4
37.5°	14726.7	12881.2	7954.3	5292.1	5030.6	5233.7	5363.4	5387.2	5441.2	5402.3	5374.2
40°	15483.0	13121.1	7007.9	4721.6	4751.9	5060.9	5145.2	5050.1	4952.8	4939.9	4901.0
42.5°	16142.1	13201.1	6050.6	4265.7	4458.0	4879.4	4931.2	4732.4	4557.4	4475.3	4440.7
45°	16837.9	13229.2	5158.1	3883.2	4174.9	4717.3	4773.5	4507.7	4261.3	4084.1	4025.8
47.5°	17747.6	13432.3	4464.5	3600.1	3958.8	4609.2	4689.2	4328.3	4008.5	3755.7	3701.7
50°	18938.3	13834.2	3900.5	3384.0	3818.3	4537.9	4628.7	4153.3	3801.1	3496.4	3442.3
52.5°	20260.8	14203.7	3444.5	3209.0	3682.2	4412.6	4550.9	4028.0	3606.6	3256.5	3198.2
55°	21185.7	13920.7	3077.2	3027.4	3505.0	4233.2	4442.9	3922.1	3327.8	3023.1	2971.3
57.5°	21362.9	12952.6	2798.4	2839.4	3291.1	4008.5	4276.5	3686.5	3176.6	2921.6	2867.5
60°	20878.8	11604.1	2590.9	2666.6	3062.0	3725.4	3965.3	3520.1	3031.8	2813.5	2768.1
62.5°	19662.2	10223.3	2437.5	2511.0	2848.1	3438.0	3770.8	3345.1	2884.8	2690.3	2645.0
65°	17205.3	8583.2	2290.6	2372.7	2649.3	3189.5	3595.8	3183.0	2740.0	2590.9	2547.7
67.5°	12987.1	6428.7	2152.3	2225.7	2472.1	2973.4	3405.6	3023.1	2599.6	2504.5	2452.6
70°	7647.5	4025.8	1994.5	2072.3	2286.3	2748.7	3202.5	2848.1	2424.6	2381.3	2314.3
72.5°	3559.0	2422.4	1815.2	1890.8	2052.9	2448.3	2941.0	2619.0	2217.1	2122.0	2031.3
75°	2124.2	1772.0	1603.4	1670.4	1784.9	2128.5	2612.6	2385.7	2020.5	1895.1	1800.0
77.5°	1588.3	1354.9	1370.0	1441.3	1534.3	1862.7	2314.3	2202.0	1869.2	1772.0	1707.1
80°	1143.1	1028.6	1117.2	1195.0	1292.2	1694.2	2217.1	2035.6	1689.8	1560.2	1499.7
82.5°	762.8	739.0	840.6	920.6	1015.6	1482.4	2083.1	1782.8	1443.5	1279.3	1145.3
85°	421.4	445.1	566.2	600.7	682.9	1043.7	1707.1	1432.7	1086.9	875.2	836.3
87.5°	175.0	205.3	304.7	293.9	363.0	622.3	1123.7	864.4	691.5	516.5	401.9
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)