

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: P317432

Luminaire Tested: **GAN-SA8A-740-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8A-740-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38911 lumens  
Efficiency: N/A  
Efficacy: 151.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

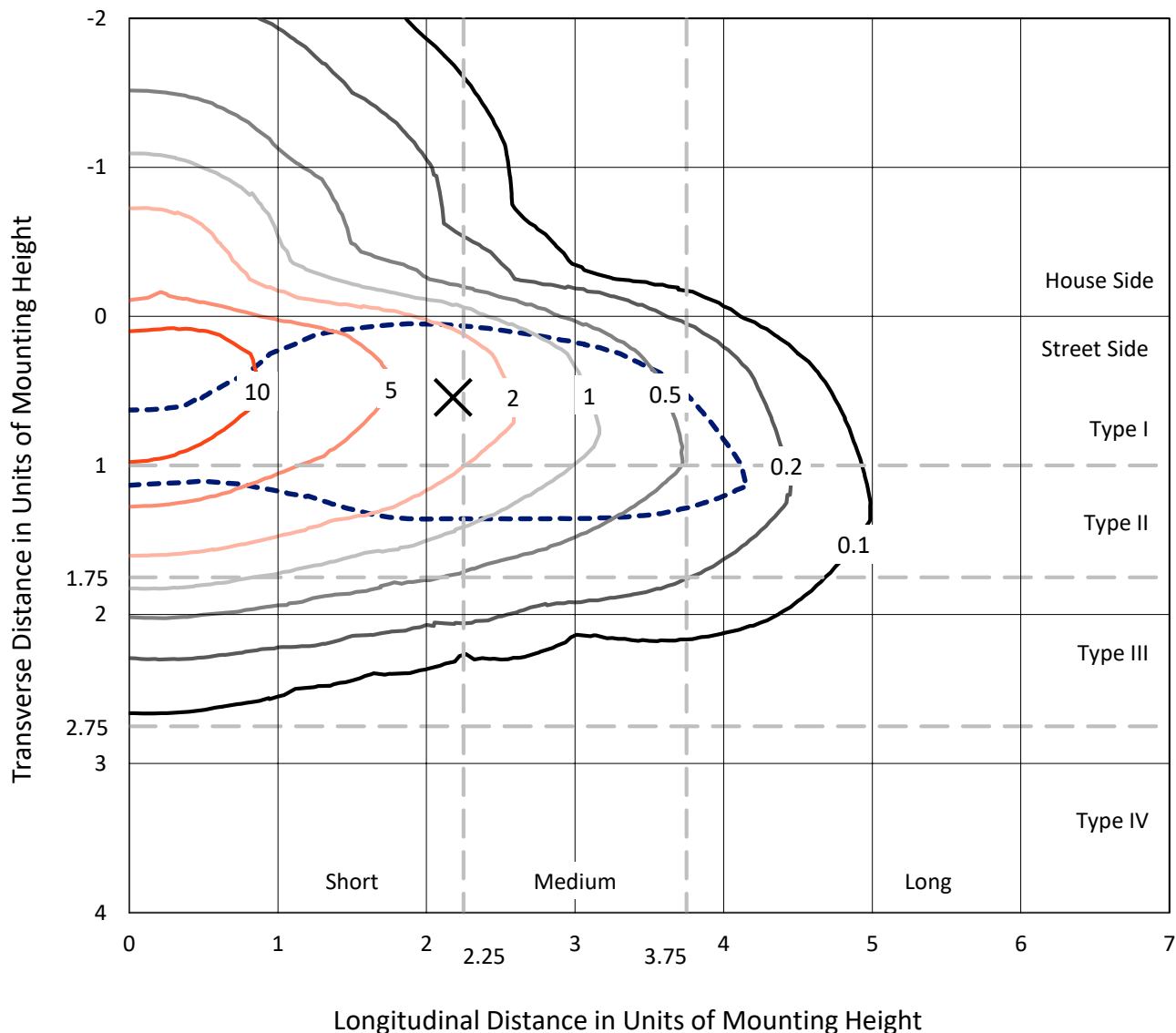
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

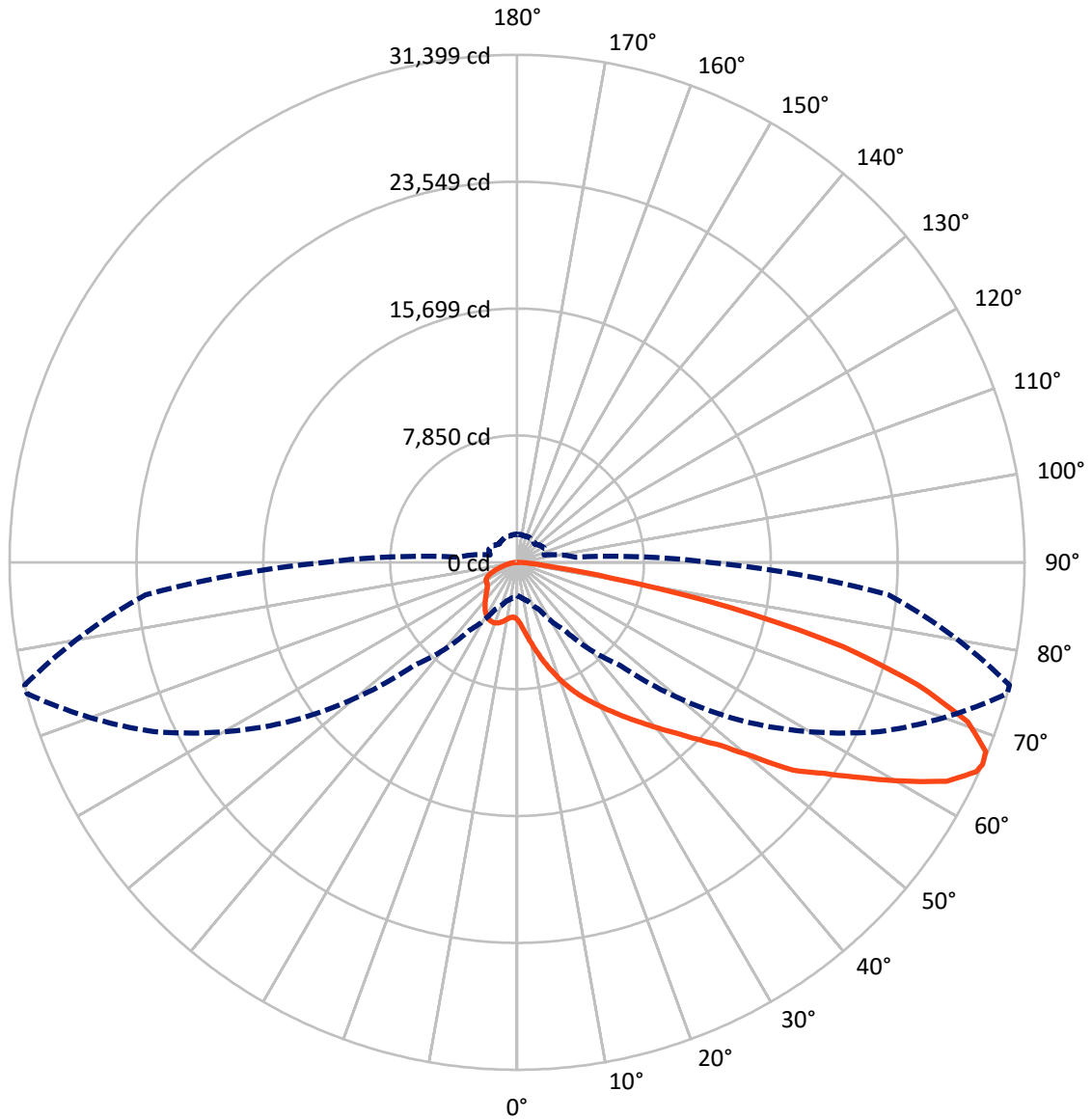
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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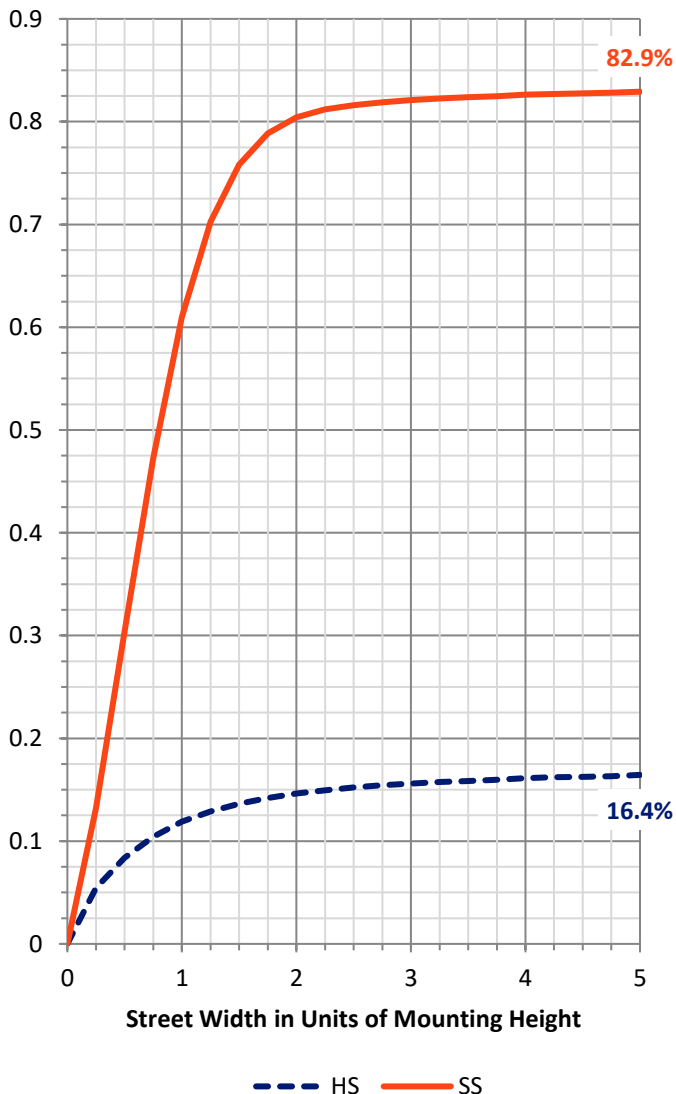
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6547.4	0.0	6547.4
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	32363.6	0.0	32363.6
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	38911.0	0.0	38911.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	429.7	1.1
10°-20°	1696.9	4.4
20°-30°	3297.5	8.5
30°-40°	5382.2	13.8
40°-50°	7353.4	18.9
50°-60°	8565.2	22.0
60°-70°	7678.9	19.7
70°-80°	3880.6	10.0
80°-90°	626.7	1.6
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°	38911.0	100.0
0°-180°	38911.0	100.0

**Coefficient of Utilization**

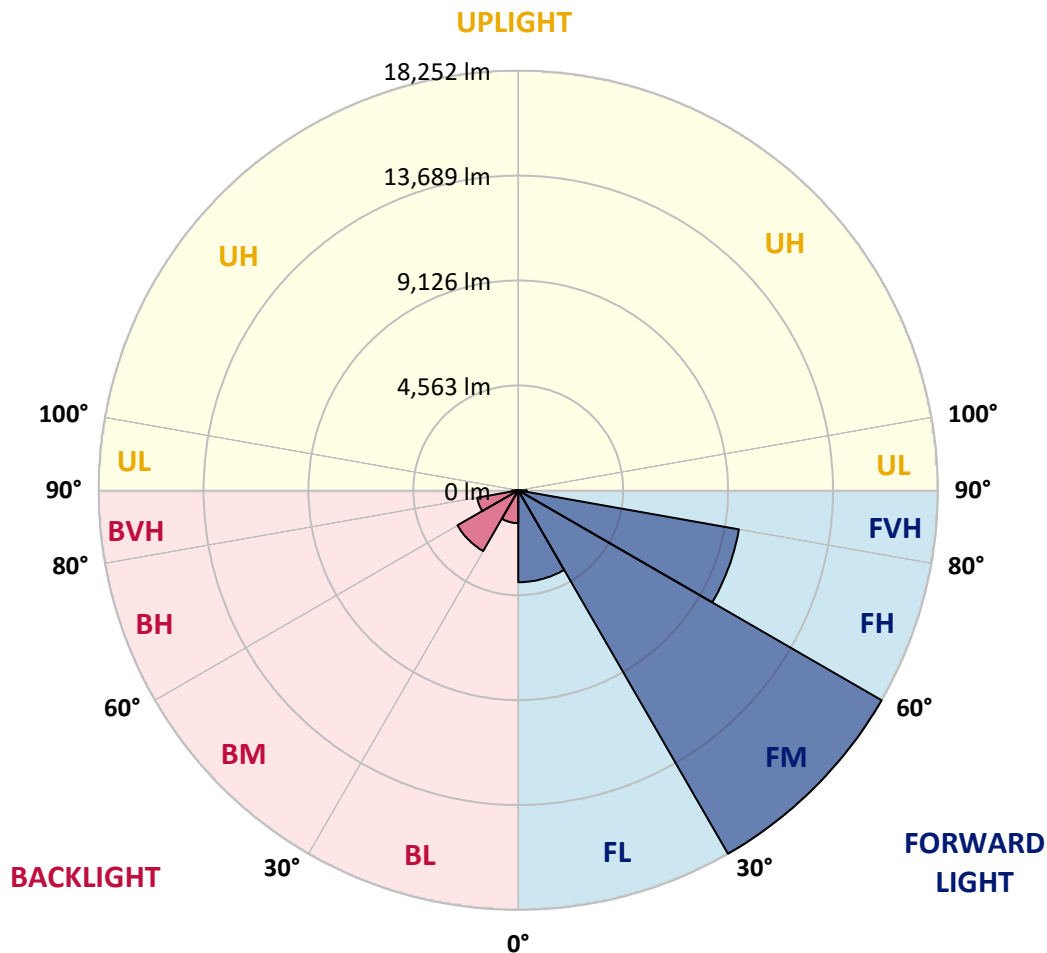


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3996.1	10.3			
FM (30°-60°)	18252.0	46.9			
FH (60°-80°)	9745.5	25.0			G4/12000
FVH (80°-90°)	370.1	1.0			G3/500
BL (0°-30°)	1428.0	3.7	B3/2500		
BM (30°-60°)	3048.9	7.8	B3/5000		
BH (60°-80°)	1813.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	256.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5
2.5°	4717.2	4645.9	4639.3	4534.9	4511.2	4311.7	4165.1	4011.8	3837.5	3803.1	3665.7
5°	6059.4	6052.8	5961.6	5791.2	5657.8	5317.0	4980.1	4623.5	4232.4	4169.0	3859.9
7.5°	7266.7	7256.2	7186.2	7002.5	6809.7	6390.9	5910.1	5363.2	4729.1	4635.3	4122.8
10°	8183.5	8179.5	8155.8	8021.0	7857.2	7455.6	6924.6	6178.3	5306.4	5178.3	4451.7
12.5°	8891.6	8899.5	8915.3	8867.8	8789.8	8447.7	7903.5	7042.2	5922.0	5795.2	4817.6
15°	9371.1	9394.9	9476.8	9544.1	9585.1	9375.0	8848.0	7925.9	6611.5	6459.6	5223.2
17.5°	9612.8	9639.2	9780.6	9984.0	10171.6	10150.5	9731.7	8768.7	7273.3	7126.7	5659.1
20°	9821.5	9841.3	9999.9	10244.2	10575.8	10722.4	10487.3	9579.8	7998.6	7824.2	6121.4
22.5°	10426.5	10451.6	10499.2	10637.9	10931.2	11200.6	11087.0	10347.3	8663.0	8500.5	6560.0
25°	11594.3	11624.7	11521.6	11404.1	11459.6	11647.1	11668.3	11047.4	9336.7	9153.1	7031.6
27.5°	13001.1	13044.7	12869.0	12566.5	12302.3	12229.7	12204.6	11620.7	9980.0	9767.4	7497.9
30°	14378.9	14454.2	14225.7	13833.4	13348.6	13007.7	12755.4	12182.1	10614.1	10410.7	7937.8
32.5°	15725.0	15694.6	15363.1	14980.0	14412.0	13985.3	13375.0	12784.5	11327.5	11093.6	8375.1
35°	16647.1	16657.6	16349.8	15895.4	15353.8	15026.2	14204.6	13434.4	12055.3	11840.0	8871.7
37.5°	17431.7	17382.9	17034.1	16610.1	16143.8	16003.7	15175.5	14150.4	12843.9	12608.8	9400.1
40°	17693.3	17636.5	17408.0	17102.8	16729.0	16717.1	16246.8	14961.5	13735.6	13503.1	9995.9
42.5°	17534.8	17462.1	17368.3	17285.1	17170.2	17223.0	17253.4	15912.6	14715.8	14455.5	10685.5
45°	16949.6	16839.9	16906.0	17087.0	17336.6	17635.2	18162.2	16965.4	15813.5	15595.6	11495.2
47.5°	16050.0	15950.9	16157.0	16544.0	17223.0	17978.6	19022.2	18127.9	17123.9	16907.3	12648.4
50°	14784.5	14813.5	15108.1	15812.2	16838.6	18137.1	20081.6	19666.8	19028.8	18826.7	14221.7
52.5°	12707.9	12713.2	13542.7	14698.6	16157.0	18055.2	20669.5	21633.8	21629.8	21385.4	15719.7
55°	10779.2	10896.8	11553.3	13089.6	15052.6	17727.6	21080.3	22590.2	23337.9	23051.2	17116.0
57.5°	8895.5	8964.2	9586.4	11129.3	13476.7	16854.5	21501.7	23738.1	25306.1	25125.2	18851.8
60°	6752.9	6858.6	7501.9	8927.2	11460.9	15304.9	21541.3	24936.2	27658.8	27476.5	20789.7
62.5°	4383.0	4565.3	5167.7	6503.2	9022.3	13076.4	20621.9	25719.6	29888.6	29823.9	22509.6
65°	2519.1	2656.5	3075.3	4105.6	6224.5	10278.6	18435.7	25418.4	31261.1	31224.1	23152.9
66°	2058.1	2144.0	2465.0	3208.7	5136.0	9026.3	17164.9	24783.0	31397.2	31398.5	23078.9
67.5°	1645.9	1684.3	1828.2	2297.2	3789.9	7154.5	14894.1	23381.4	31228.1	31274.3	22602.1
70°	1361.9	1381.8	1426.7	1540.3	2068.7	4314.3	10571.8	19739.5	29530.6	29566.3	20740.8
72.5°	1221.9	1233.8	1251.0	1266.8	1459.7	2410.8	6457.0	15791.1	25891.3	25937.6	17904.6
75°	1107.0	1113.6	1110.9	1112.3	1224.6	1536.3	3336.8	11789.8	20935.0	20842.5	13715.8
77.5°	972.2	978.9	965.6	968.3	1083.2	1181.0	1660.5	8253.5	14127.9	13475.4	7727.8
80°	821.7	826.9	821.7	830.9	943.2	891.7	965.6	4643.3	6246.9	5908.8	2747.7
82.5°	620.9	643.3	659.2	696.2	776.7	634.1	646.0	1808.4	1902.2	1811.1	842.8
85°	272.1	331.6	496.7	532.4	583.9	380.4	424.0	737.1	774.1	750.3	306.5
87.5°	71.3	77.9	245.7	309.1	323.6	171.7	220.6	335.5	354.0	335.5	101.7
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°	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5	3553.5
2.5°	3593.1	3528.4	3412.1	3309.1	3231.1	3178.3	3125.5	3099.0	3083.2	3067.3	3070.0
5°	3708.0	3577.2	3377.8	3236.4	3157.2	3107.0	3080.5	3070.0	3063.4	3047.5	3047.5
7.5°	3881.1	3696.1	3421.4	3276.0	3214.0	3175.6	3159.8	3154.5	3146.6	3128.1	3130.7
10°	4099.0	3840.1	3512.5	3371.2	3314.4	3272.1	3249.6	3241.7	3227.2	3206.0	3208.7
12.5°	4355.3	4018.4	3632.7	3484.8	3416.1	3359.3	3322.3	3299.8	3274.7	3247.0	3248.3
15°	4635.3	4212.6	3762.2	3586.5	3492.7	3413.4	3354.0	3315.7	3276.0	3241.7	3240.4
17.5°	4919.4	4400.2	3861.2	3642.0	3515.1	3410.8	3330.2	3270.8	3221.9	3179.6	3175.6
20°	5225.8	4569.3	3916.7	3636.7	3472.9	3348.7	3241.7	3167.7	3113.6	3071.3	3064.7
22.5°	5537.6	4727.8	3926.0	3582.5	3379.1	3227.2	3114.9	3033.0	2977.5	2933.9	2918.1
25°	5822.9	4850.7	3887.7	3478.2	3248.3	3084.5	2974.9	2891.6	2846.7	2795.2	2779.4
27.5°	6083.1	4936.5	3811.0	3344.7	3101.7	2940.5	2837.5	2766.1	2717.3	2677.6	2664.4
30°	6317.0	4982.8	3685.6	3186.2	2951.1	2804.5	2717.3	2668.4	2626.1	2575.9	2566.7
32.5°	6538.9	4982.8	3524.4	3013.2	2801.8	2684.2	2632.7	2602.3	2554.8	2505.9	2492.7
35°	6760.8	4952.4	3334.2	2832.2	2664.4	2598.4	2595.7	2560.1	2487.4	2421.4	2404.2
37.5°	6994.6	4890.3	3120.2	2663.1	2552.1	2560.1	2582.5	2503.3	2400.2	2306.4	2281.3
40°	7258.8	4804.4	2898.2	2516.5	2458.4	2542.9	2546.9	2421.4	2220.6	2134.7	2112.3
42.5°	7569.2	4718.6	2692.2	2387.0	2384.4	2491.4	2479.5	2244.4	2124.1	2080.6	2068.7
45°	7977.4	4669.7	2496.7	2264.2	2326.3	2408.2	2364.6	2146.6	2096.4	2071.3	2060.7
47.5°	8620.8	4694.8	2317.0	2166.4	2268.1	2324.9	2150.6	2107.0	2071.3	2040.9	2030.4
50°	9426.6	4680.3	2171.7	2099.0	2202.1	2237.8	2054.1	2055.5	2037.0	2002.6	1986.8
52.5°	10032.9	4566.6	2077.9	2060.7	2144.0	2083.2	1993.4	2005.3	1996.0	1945.8	1928.6
55°	10618.1	4468.9	2030.4	2046.2	2101.7	1890.3	1922.0	1951.1	1941.8	1893.0	1885.0
57.5°	11345.9	4450.4	2001.3	2050.2	2066.0	1793.9	1853.3	1891.7	1885.0	1863.9	1859.9
60°	12237.6	4455.7	1974.9	2056.8	2026.4	1722.6	1788.6	1837.5	1841.5	1837.5	1834.8
62.5°	12727.7	4311.7	1908.8	2038.3	1956.4	1660.5	1721.2	1792.6	1793.9	1801.8	1800.5
65°	12311.6	3881.1	1786.0	1973.6	1838.8	1609.0	1663.1	1741.1	1721.2	1756.9	1756.9
66°	11907.4	3632.7	1725.2	1931.3	1788.6	1589.1	1644.6	1714.6	1689.5	1738.4	1738.4
67.5°	11081.8	3214.0	1615.6	1841.5	1717.3	1561.4	1623.5	1671.0	1636.7	1709.4	1704.1
70°	9573.2	2486.1	1395.0	1638.0	1599.7	1520.5	1594.4	1583.9	1533.7	1644.6	1623.5
72.5°	8071.2	1889.0	1120.2	1371.2	1421.4	1468.9	1553.5	1472.9	1409.5	1487.4	1441.2
75°	6262.8	1420.1	885.1	1066.0	1200.8	1388.4	1504.6	1344.8	1253.6	1245.7	1220.6
77.5°	3385.7	974.9	701.4	813.7	953.8	1288.0	1471.6	1207.4	1070.0	1038.3	1018.5
80°	1340.8	634.1	509.9	616.9	667.1	1142.7	1392.3	1047.5	882.4	850.7	820.3
82.5°	553.5	375.2	328.9	413.5	434.6	977.5	1249.7	858.6	681.6	943.2	1001.3
85°	237.8	206.1	195.5	214.0	245.7	685.6	994.7	655.2	735.8	656.5	521.8
87.5°	71.3	87.2	83.2	81.9	89.8	163.8	529.7	364.6	540.3	204.8	153.2
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)