

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: P318138

Luminaire Tested: **GAN-SA4D-750-U-T2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4D-750-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30714 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

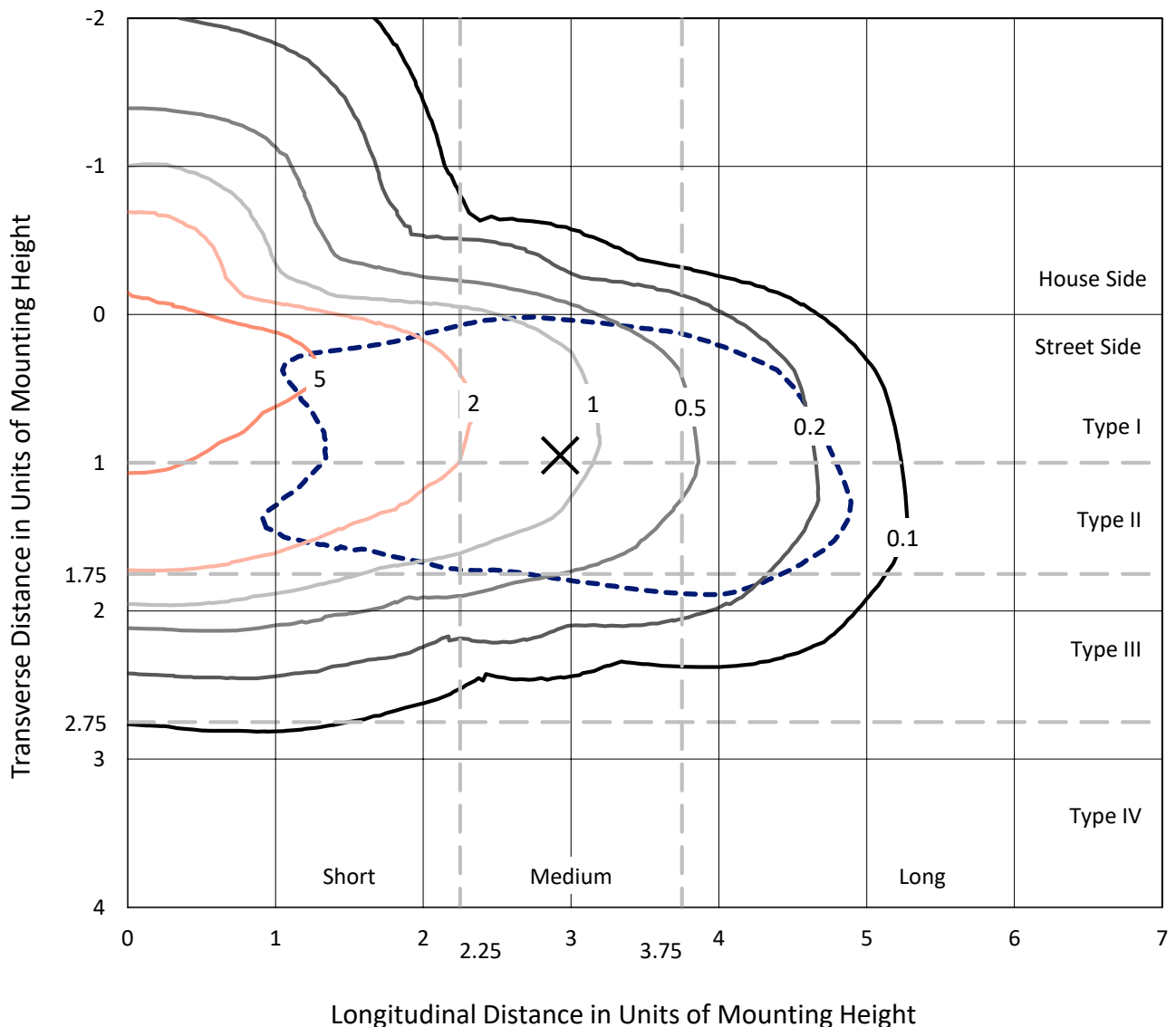
Input Watts (W): 258  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

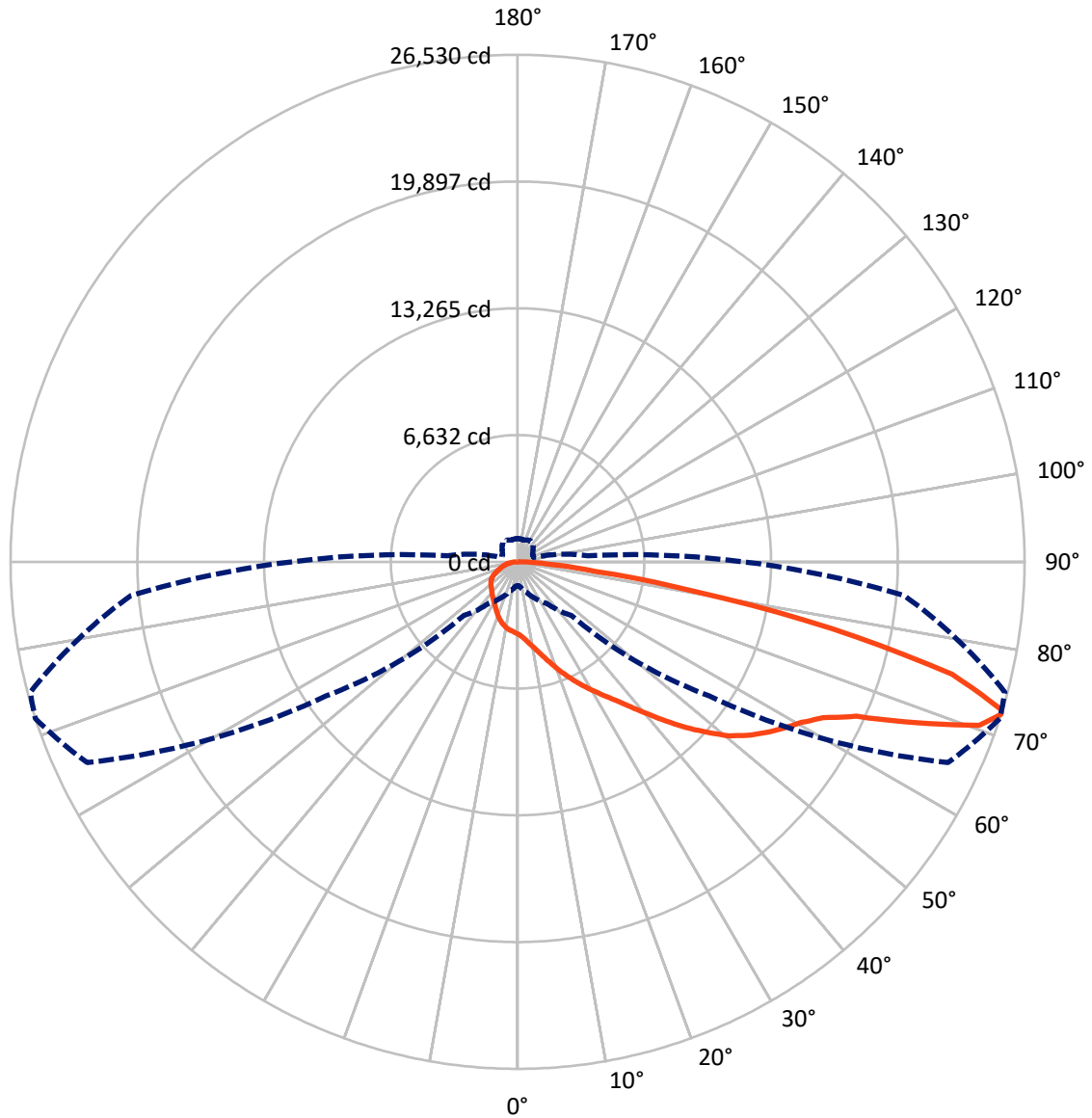
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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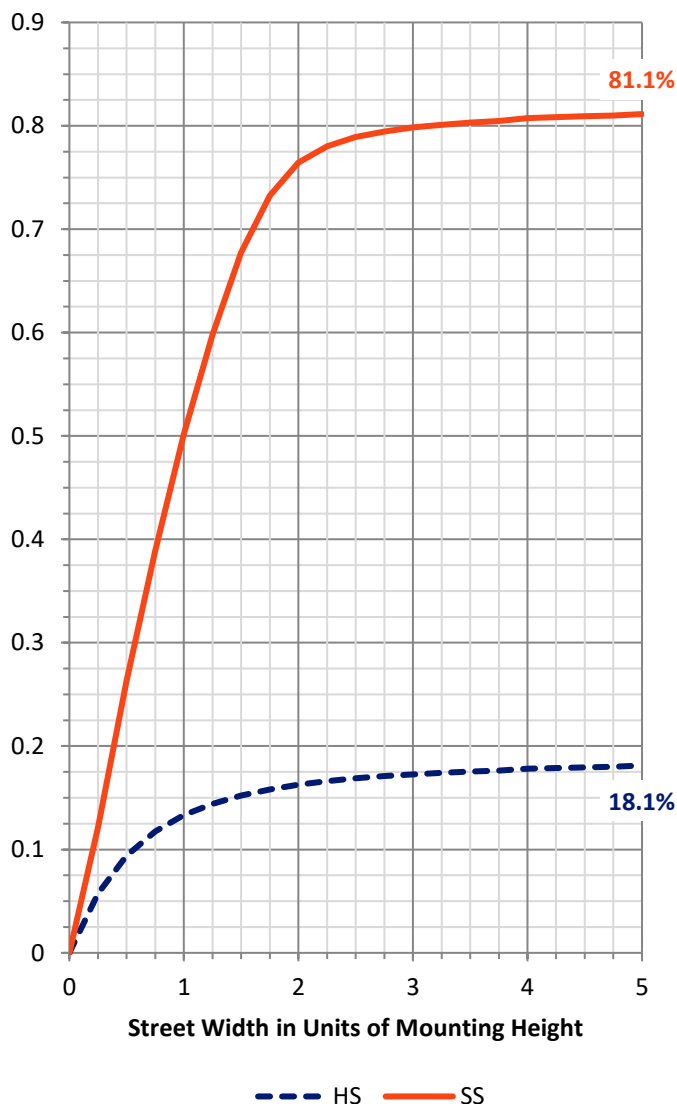
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5697.7	0.0	5697.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	25016.4	0.0	25016.4
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	30714.0	0.0	30714.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.6	1.2
10°-20°	1223.5	4.0
20°-30°	2144.0	7.0
30°-40°	3178.9	10.4
40°-50°	4649.5	15.1
50°-60°	6397.6	20.8
60°-70°	7122.4	23.2
70°-80°	4826.2	15.7
80°-90°	793.2	2.6
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°	30714.0	100.0
0°-180°	30714.0	100.0

**Coefficient of Utilization**

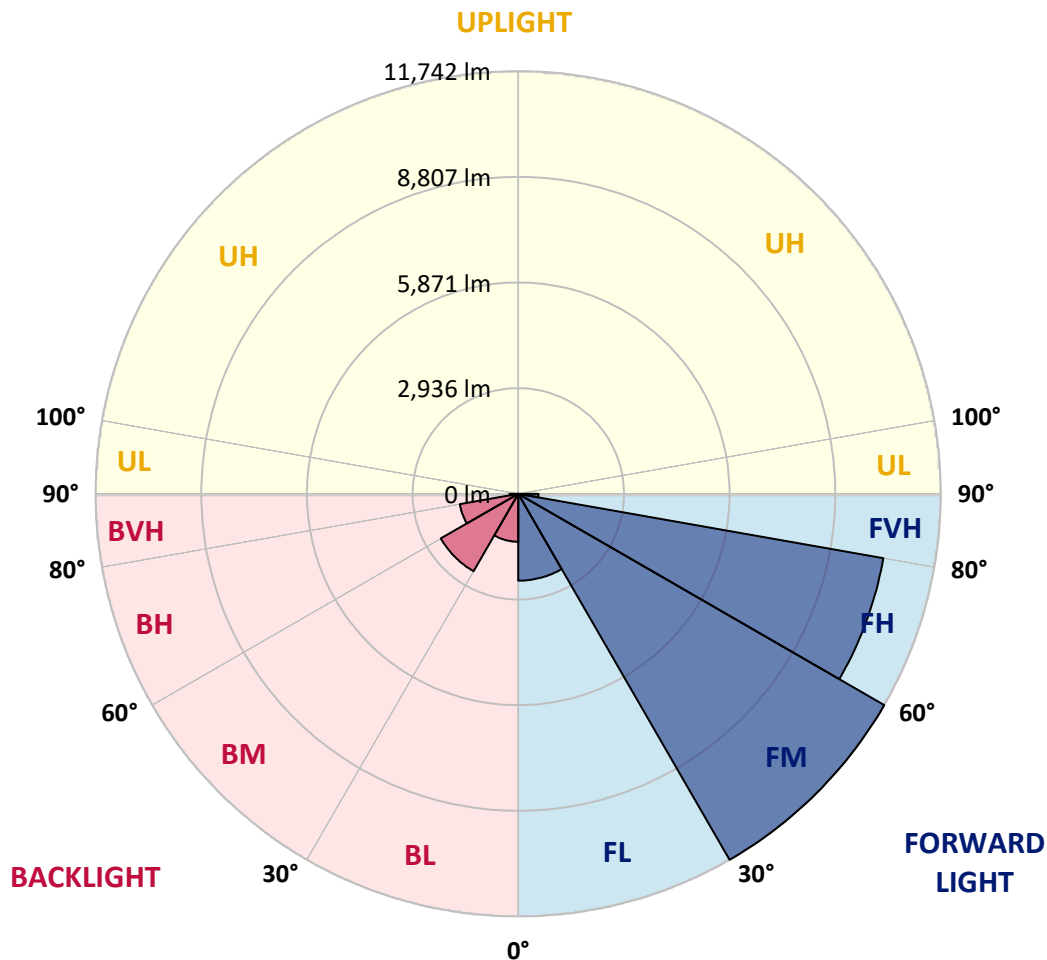


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2414.3	7.9			
FM (30°-60°)	11742.3	38.2			
FH (60°-80°)	10300.2	33.5			G4/12000
FVH (80°-90°)	559.5	1.8			G4/750
BL (0°-30°)	1331.9	4.3	B3/2500		
BM (30°-60°)	2483.6	8.1	B2/2500		
BH (60°-80°)	1648.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	233.7	0.8			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6
2.5°	4174.1	4167.8	4145.6	4145.6	4103.3	4067.3	3999.7	3954.2	3900.2	3881.2	3817.8
5°	4578.1	4580.2	4552.7	4533.7	4471.3	4395.2	4279.9	4175.2	4070.5	4028.2	3898.1
7.5°	4917.6	4913.4	4906.0	4890.1	4831.9	4753.7	4598.2	4442.8	4288.4	4224.9	4000.7
10°	5135.5	5145.0	5151.3	5158.7	5134.4	5078.4	4931.4	4742.1	4540.1	4453.3	4123.4
12.5°	5245.4	5262.4	5292.0	5342.7	5382.9	5376.6	5269.8	5068.8	4828.8	4719.8	4276.7
15°	5310.0	5332.2	5378.7	5469.6	5582.8	5647.3	5618.8	5436.9	5169.3	5035.0	4463.9
17.5°	5350.1	5368.1	5440.0	5561.7	5729.8	5901.1	5976.2	5823.9	5554.2	5400.9	4678.6
20°	5377.6	5391.4	5481.3	5624.0	5841.9	6114.7	6324.1	6286.1	5978.3	5779.5	4902.8
22.5°	5439.0	5450.6	5536.3	5680.1	5921.2	6273.4	6659.4	6716.5	6425.7	6200.4	5142.9
25°	5610.3	5610.3	5682.2	5782.7	6009.0	6410.9	6942.8	7195.6	6882.5	6620.3	5364.9
27.5°	5937.1	5933.9	5960.3	5995.2	6166.6	6550.5	7195.6	7618.6	7356.3	7069.7	5580.7
30°	6324.1	6345.3	6348.5	6331.5	6411.9	6725.0	7429.3	8064.9	7833.3	7524.5	5801.7
32.5°	6822.2	6836.0	6820.1	6764.1	6752.5	6972.4	7658.8	8532.3	8349.4	7999.3	6003.7
35°	7454.7	7428.2	7378.5	7264.3	7155.4	7303.4	7921.0	8999.7	8928.9	8573.6	6281.8
37.5°	8132.6	8133.6	8072.3	7813.2	7663.0	7726.5	8282.7	9529.6	9630.0	9256.7	6638.2
40°	8676.1	8704.7	8742.8	8402.2	8207.6	8295.4	8742.8	10144.0	10459.2	10066.8	7102.5
42.5°	9055.8	9088.6	9196.4	8982.8	8780.8	8943.7	9284.2	10799.7	11389.8	11001.7	7646.1
45°	9457.7	9475.6	9551.8	9459.8	9330.8	9697.7	9894.4	11478.6	12374.4	11997.9	8254.2
47.5°	9880.7	9899.7	9978.0	9916.6	9849.0	10402.1	10531.1	12118.5	13317.7	13092.5	8903.5
50°	10403.1	10415.8	10489.8	10378.8	10399.9	10932.9	11100.0	12705.4	14306.5	14076.0	9555.0
52.5°	11115.9	11119.1	11221.7	11121.2	11021.8	11322.1	11589.7	13258.5	15081.7	14972.8	10206.4
55°	11674.3	11708.1	12044.4	12023.3	11966.2	11675.3	11999.0	13785.2	15773.3	15825.2	10898.0
57.5°	11317.9	11450.1	12131.1	12611.3	13078.7	12554.2	12552.1	14378.4	16416.3	16661.7	11658.4
60°	9912.4	10092.2	11095.8	12160.8	13623.3	14083.4	13700.5	15102.9	17065.7	17490.8	12611.3
62.5°	7079.2	7375.3	8735.4	10435.9	12876.7	15096.5	16037.7	16252.4	17948.7	18451.1	13849.7
65°	3578.7	3802.9	4943.0	6991.5	10287.8	14434.5	18578.0	18769.4	19483.2	19929.5	15756.4
67.5°	2174.3	2258.9	2815.2	3888.6	6307.2	11243.9	19407.1	22964.7	22452.8	22689.7	18475.4
70°	1602.2	1664.6	2011.5	2582.5	3627.4	6598.0	16862.6	25958.6	25622.3	25595.9	20484.7
72°	1247.9	1293.4	1600.1	2086.5	2652.3	3958.4	12222.1	24853.5	26529.7	26396.4	20300.7
72.5°	1183.4	1223.6	1502.8	1963.9	2506.4	3588.3	10989.0	24107.9	26464.1	26403.8	20062.8
75°	931.7	960.3	1112.5	1518.6	1961.8	2035.8	6021.7	18682.7	23476.5	24452.7	18045.0
77.5°	771.0	775.2	855.6	1105.1	1529.2	1439.3	2958.0	12962.4	16810.8	17884.2	12782.6
80°	628.2	633.5	671.5	775.2	1157.0	1065.0	1404.4	7453.6	9412.2	9423.8	6078.8
82.5°	500.2	501.3	543.6	566.8	831.2	761.4	804.8	3499.4	4112.8	3956.3	2184.9
85°	352.2	344.8	530.9	465.3	543.6	488.6	444.2	1385.4	1700.5	1626.5	684.2
87.5°	117.4	121.6	235.8	301.4	317.3	277.1	197.8	530.9	641.9	636.6	216.8
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°	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6	3778.6
2.5°	3797.7	3763.8	3714.1	3659.1	3615.8	3571.3	3538.6	3521.6	3502.6	3486.7	3505.8
5°	3837.8	3774.4	3668.6	3565.0	3488.9	3421.2	3372.5	3347.1	3323.9	3308.0	3310.1
7.5°	3903.4	3800.8	3623.2	3471.9	3366.2	3293.2	3243.5	3226.6	3211.8	3207.5	3212.8
10°	3973.2	3822.0	3562.9	3361.9	3241.4	3181.1	3158.9	3170.5	3181.1	3190.6	3201.2
12.5°	4052.5	3841.0	3475.1	3232.9	3130.3	3107.1	3129.3	3180.1	3217.1	3239.3	3253.0
15°	4156.2	3857.9	3373.6	3103.9	3035.2	3061.6	3136.7	3224.5	3289.0	3330.2	3336.6
17.5°	4251.3	3856.9	3243.5	2973.8	2958.0	3035.2	3148.3	3272.1	3358.8	3416.9	3428.6
20°	4349.7	3828.3	3092.3	2846.9	2879.7	3006.6	3153.6	3302.7	3407.4	3475.1	3491.0
22.5°	4441.7	3778.6	2926.2	2731.6	2814.1	2968.5	3133.5	3284.7	3389.4	3444.4	3461.4
25°	4504.1	3691.9	2758.1	2634.4	2756.0	2922.0	3068.0	3189.6	3267.8	3295.3	3299.6
27.5°	4535.8	3578.7	2599.5	2549.8	2695.7	2845.9	2946.3	3006.6	3028.8	3026.7	3022.5
30°	4540.1	3429.6	2463.0	2481.0	2625.9	2733.8	2781.4	2769.7	2741.2	2692.5	2696.8
32.5°	4526.3	3261.5	2348.8	2415.4	2537.1	2597.3	2599.5	2543.4	2467.3	2390.1	2368.9
35°	4530.5	3096.5	2248.3	2341.4	2429.2	2455.6	2431.3	2348.8	2245.2	2145.8	2124.6
37.5°	4577.1	2952.7	2161.6	2255.8	2309.7	2316.0	2281.1	2194.4	2118.3	2021.0	2012.5
40°	4688.1	2850.1	2079.1	2159.5	2190.2	2193.4	2143.7	2082.3	2088.7	2036.8	2035.8
42.5°	4888.0	2805.7	2006.2	2059.0	2078.1	2084.4	2046.4	2007.2	2062.2	2028.4	2016.7
45°	5146.0	2816.3	1944.8	1960.7	1995.6	2025.2	2001.9	1954.4	1975.5	1828.5	1779.9
47.5°	5444.3	2883.9	1896.2	1876.1	1936.4	1992.4	1956.5	1884.6	1809.5	1663.5	1636.0
50°	5793.3	2988.6	1851.8	1792.5	1871.9	1948.0	1912.0	1809.5	1696.3	1625.5	1615.9
52.5°	6157.1	3116.6	1807.4	1700.5	1790.4	1914.2	1896.2	1792.5	1652.9	1583.2	1570.5
55°	6569.5	3245.6	1751.3	1593.7	1702.7	1898.3	1888.8	1731.2	1620.2	1581.0	1571.5
57.5°	7082.4	3392.6	1677.3	1482.7	1620.2	1841.2	1811.6	1694.2	1586.3	1556.7	1553.5
60°	7750.8	3609.4	1570.5	1364.2	1519.7	1753.4	1747.1	1640.3	1532.4	1511.2	1507.0
62.5°	8753.3	3967.9	1423.5	1245.8	1407.6	1604.3	1662.5	1567.3	1475.3	1474.2	1476.3
65°	10307.9	4507.3	1263.8	1142.2	1294.4	1478.5	1564.1	1492.2	1417.1	1438.3	1441.4
67.5°	12110.0	4954.6	1107.3	1040.6	1179.2	1359.0	1475.3	1417.1	1339.9	1394.9	1396.0
70°	12709.6	4554.9	969.8	940.2	1059.7	1243.7	1379.0	1334.6	1256.4	1311.4	1306.1
72°	11827.6	3677.1	880.9	864.0	969.8	1148.5	1293.4	1257.4	1180.2	1217.2	1203.5
72.5°	11549.5	3505.8	858.7	845.0	945.4	1124.2	1271.2	1238.4	1161.2	1192.9	1180.2
75°	10302.6	3044.7	738.2	741.3	824.9	1005.7	1146.4	1135.8	1056.5	1059.7	1055.4
77.5°	7472.6	2232.5	621.8	643.0	702.2	884.1	1020.5	1014.2	927.5	911.6	908.4
80°	3467.7	1139.0	506.6	516.1	577.4	739.2	870.4	861.9	792.1	772.0	760.4
82.5°	1187.6	541.5	380.7	387.1	447.3	595.4	755.1	749.8	691.6	652.5	628.2
85°	424.1	269.7	266.5	260.2	319.4	468.5	657.8	629.2	543.6	463.2	461.1
87.5°	137.5	115.3	137.5	136.4	186.1	317.3	478.0	407.2	394.5	327.8	321.5
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)