

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: P318701

Luminaire Tested: **GAN-SA7D-730-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318701  
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-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 50281 lumens  
Efficiency: N/A  
Efficacy: 112.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

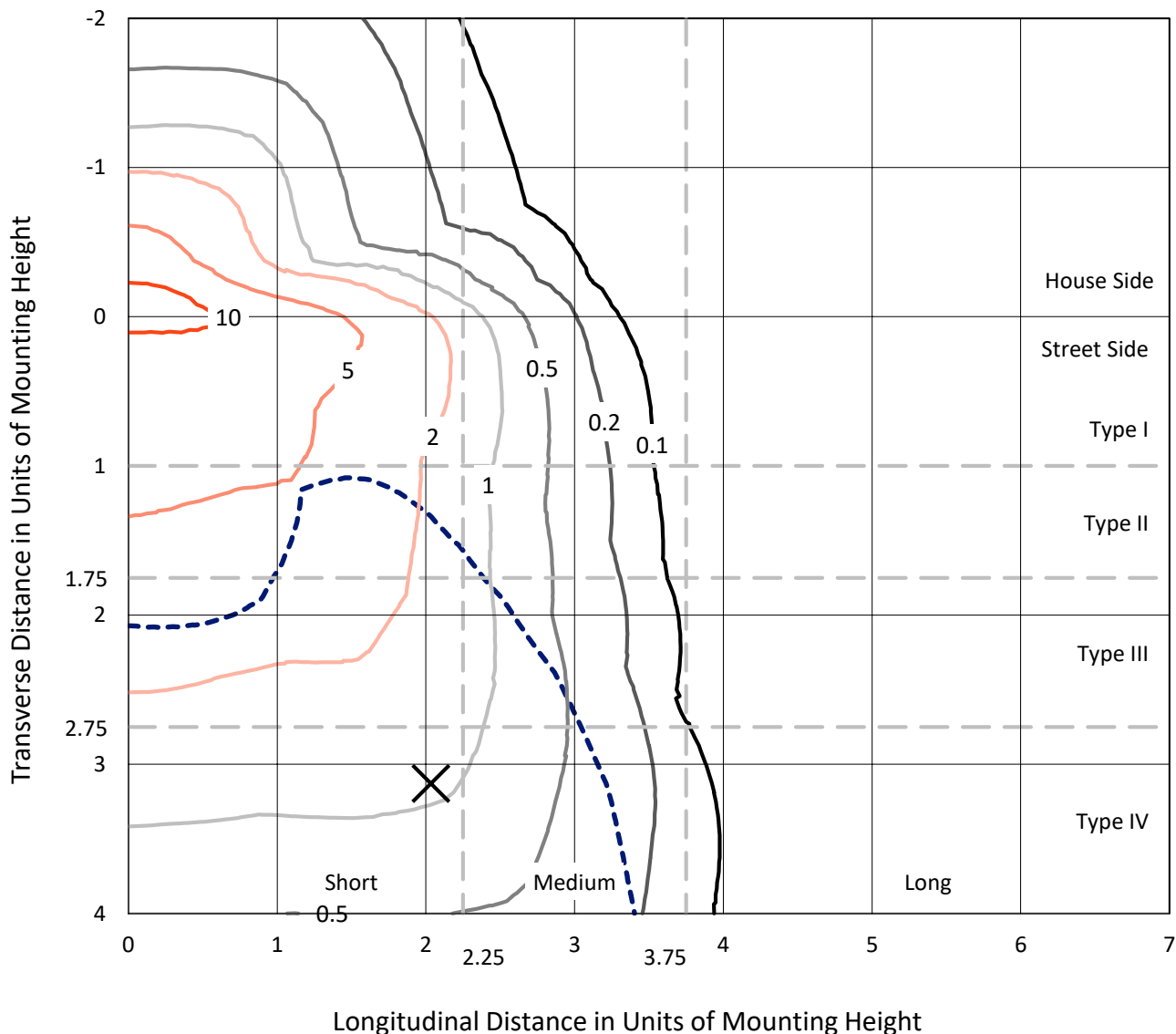
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

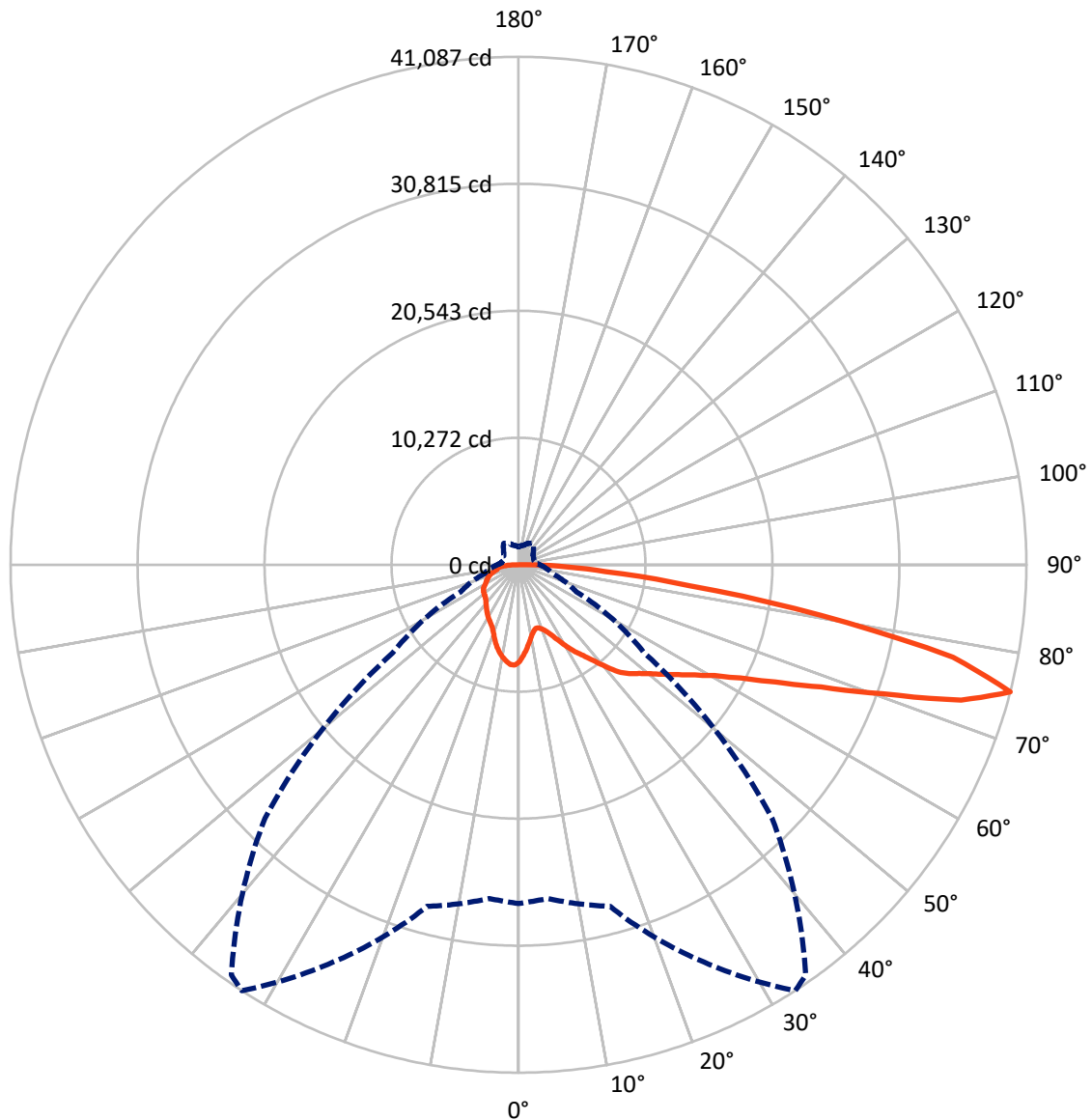
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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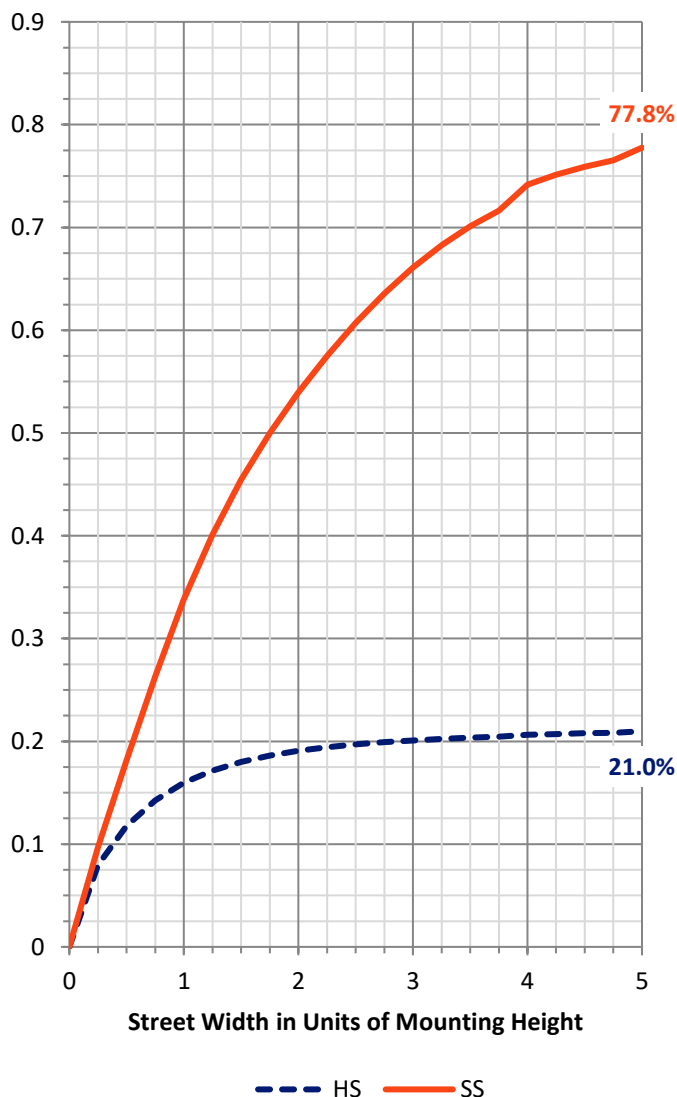
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10796.6	0.0	10796.6
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	39484.4	0.0	39484.4
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	50281.0	0.0	50281.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	710.8	1.4
10°-20°	1925.0	3.8
20°-30°	3143.9	6.3
30°-40°	4682.0	9.3
40°-50°	6715.3	13.4
50°-60°	9219.0	18.3
60°-70°	11541.8	23.0
70°-80°	10441.3	20.8
80°-90°	1901.9	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°	50281.0	100.0
0°-180°	50281.0	100.0

**Coefficient of Utilization**

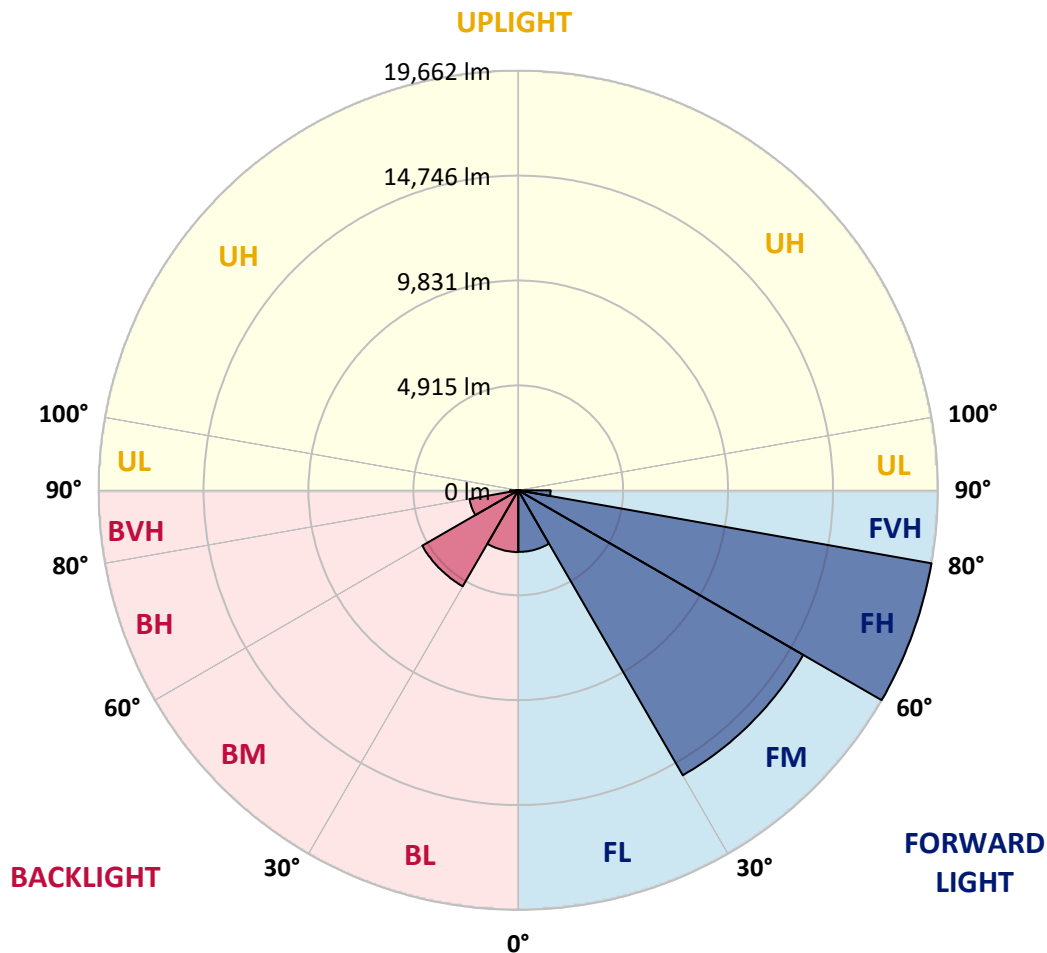


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2887.9	5.7			
FM (30°-60°)	15420.1	30.7			
FH (60°-80°)	19661.6	39.1			G5
FVH (80°-90°)	1514.7	3.0			G5
BL (0°-30°)	2891.8	5.8	B4/5000		
BM (30°-60°)	5196.1	10.3	B4/8500		
BH (60°-80°)	2321.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	387.2	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°	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2
2.5°	7298.2	7270.4	7322.5	7329.5	7374.6	7392.0	7454.5	7551.8	7631.7	7723.7	7807.1
5°	6636.5	6617.4	6690.3	6742.4	6841.4	6883.1	7030.7	7237.4	7421.5	7629.9	7819.3
7.5°	6007.7	5997.3	6078.9	6197.0	6311.7	6369.0	6624.3	6924.8	7232.2	7569.1	7859.2
10°	5478.0	5474.5	5552.7	5669.0	5837.5	5901.8	6231.8	6627.8	7058.5	7522.3	7926.9
12.5°	5181.0	5193.2	5229.6	5326.9	5483.2	5547.5	5913.9	6379.4	6912.6	7506.6	8025.9
15°	5253.9	5273.0	5210.5	5207.0	5318.2	5368.6	5712.5	6202.3	6808.4	7532.7	8170.1
17.5°	5564.8	5568.3	5403.3	5299.1	5366.8	5392.9	5649.9	6101.5	6747.6	7591.7	8350.7
20°	6002.5	5993.8	5702.0	5528.4	5564.8	5571.8	5738.5	6103.3	6742.4	7694.2	8585.2
22.5°	6582.6	6518.4	6125.8	5889.6	5880.9	5870.5	5966.0	6231.8	6818.8	7860.9	8864.8
25°	7339.9	7279.1	6738.9	6415.9	6346.4	6320.4	6334.3	6506.2	6969.9	8039.8	9177.5
27.5°	8182.3	8076.3	7555.3	7098.5	6954.3	6917.8	6834.5	6893.5	7134.9	8211.8	9549.1
30°	8887.4	8830.1	8375.0	7833.1	7662.9	7610.8	7392.0	7327.7	7372.9	8446.3	10018.1
32.5°	9281.7	9243.5	8967.3	8529.6	8371.6	8298.6	7989.5	7860.9	7755.0	8816.2	10653.8
35°	9759.3	9735.0	9568.3	9250.4	9015.9	8939.5	8699.8	8566.1	8293.4	9325.1	11475.3
37.5°	10367.2	10341.1	10344.6	10087.6	9807.9	9736.7	9578.7	9438.0	8991.6	9993.8	12368.0
40°	11055.0	11004.6	10985.5	10973.4	10796.2	10756.3	10672.9	10481.8	9867.0	10792.7	13248.6
42.5°	12090.1	11911.3	11529.1	11673.3	11848.7	11827.9	11895.6	11621.2	10839.6	11737.6	14108.4
45°	13088.8	12795.3	12135.3	12166.6	12550.4	12666.8	13173.9	12979.4	11893.9	12772.7	14997.6
47.5°	13543.9	13321.6	12760.6	12762.3	13142.7	13384.1	14495.7	14356.7	13002.0	13948.6	16083.1
50°	14052.8	13830.5	13326.8	13516.1	13847.8	14104.9	15772.2	15701.0	14056.2	15235.6	17384.0
52.5°	14608.6	14231.7	13912.1	14250.8	14716.2	15015.0	17050.6	16856.0	15023.7	16531.2	18879.5
55°	14615.5	14513.0	14756.2	15004.6	15701.0	16067.5	18389.7	17875.6	15812.2	17804.3	20097.0
57.5°	15447.5	15280.7	15796.6	15911.2	16821.3	17234.7	19721.8	18763.1	16614.6	18780.5	20753.5
60°	16548.6	16406.2	16828.2	17130.5	18207.3	18759.6	21144.3	19674.9	17245.1	19516.9	20722.2
62.5°	18450.5	18288.9	18283.7	18707.5	20157.8	20800.4	22740.4	20569.4	17495.2	19662.8	19838.2
65°	21234.6	20977.6	20493.0	20694.5	22851.6	23492.5	24524.2	21217.2	17165.2	18881.2	17561.2
67.5°	23944.1	23935.4	23339.7	23753.0	26408.7	26922.8	26556.3	21281.5	16135.2	16159.6	13521.3
70°	26644.9	26679.6	26578.9	28017.0	31214.5	31749.4	28720.4	20418.3	13820.0	11669.8	8100.6
72.5°	28784.7	28776.0	29283.1	32991.3	37451.5	37331.6	30544.1	17802.6	9922.6	6299.5	3871.4
75°	27398.7	27096.4	28607.5	35454.1	41086.7	40501.4	28993.1	12418.4	5149.7	2867.5	2084.2
77.5°	17870.3	18156.9	20374.9	29288.3	35938.7	35226.6	21271.1	5794.1	2426.4	1881.0	1511.1
80°	6471.5	6773.7	9540.5	16590.3	24760.4	24644.0	10474.9	2381.2	1641.3	1420.7	1101.2
82.5°	2226.6	2337.8	3763.7	7367.7	13979.8	14500.9	3940.9	1353.0	1193.2	1007.4	753.8
85°	873.6	1000.4	1721.2	3544.9	7051.6	7103.7	1596.2	809.4	830.2	660.0	413.4
87.5°	331.7	402.9	823.3	1646.5	3220.1	2957.8	571.4	385.6	472.4	392.5	196.3
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°	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2	7859.2
2.5°	7871.4	7907.8	7984.3	8036.4	8091.9	8107.6	8114.5	8128.4	8142.3	8137.1	8138.8
5°	7920.0	7991.2	8114.5	8166.6	8190.9	8163.1	8109.3	8065.9	8034.6	8017.3	8012.0
7.5°	7999.9	8100.6	8232.6	8223.9	8168.4	8045.0	7906.1	7801.9	7715.0	7683.8	7666.4
10°	8105.8	8223.9	8316.0	8217.0	8055.5	7841.8	7633.4	7471.9	7341.6	7291.3	7282.6
12.5°	8241.3	8361.1	8378.5	8168.4	7900.9	7609.1	7326.0	7112.4	6917.8	6855.3	6841.4
15°	8416.7	8529.6	8421.9	8083.3	7709.8	7317.3	6950.8	6660.8	6455.8	6379.4	6351.6
17.5°	8600.8	8708.5	8430.6	7942.6	7459.7	6971.7	6511.4	6214.4	5979.9	5891.4	5880.9
20°	8821.4	8870.0	8394.1	7741.1	7115.8	6523.6	6039.0	5759.4	5634.3	5571.8	5564.8
22.5°	9094.1	9042.0	8310.8	7468.4	6679.9	6006.0	5611.7	5481.5	5450.2	5436.3	5441.5
25°	9382.4	9222.6	8187.5	7112.4	6129.3	5488.4	5299.1	5335.6	5377.3	5372.0	5372.0
27.5°	9700.3	9406.7	7998.1	6639.9	5519.7	5064.6	5087.2	5220.9	5283.5	5281.7	5280.0
30°	10108.4	9615.1	7756.7	6072.0	4950.0	4765.9	4903.1	5066.4	5151.5	5148.0	5149.7
32.5°	10610.4	9844.4	7428.5	5438.0	4538.4	4545.3	4703.4	4864.9	4963.9	4955.2	4956.9
35°	11197.4	10101.5	6983.8	4812.8	4265.7	4369.9	4494.9	4607.8	4701.6	4689.5	4677.3
37.5°	11836.6	10353.3	6393.3	4253.5	4043.4	4206.6	4310.8	4329.9	4373.4	4342.1	4319.5
40°	12444.5	10546.1	5632.6	3795.0	3819.3	4067.7	4135.4	4059.0	3980.8	3970.4	3939.2
42.5°	12974.2	10610.4	4863.2	3428.5	3583.1	3921.8	3963.5	3803.7	3663.0	3597.0	3569.2
45°	13533.5	10632.9	4145.8	3121.1	3355.6	3791.5	3836.7	3623.0	3425.0	3282.6	3235.7
47.5°	14264.7	10796.2	3588.3	2893.6	3181.9	3704.7	3768.9	3478.9	3221.8	3018.6	2975.2
50°	15221.7	11119.3	3135.0	2719.9	3069.0	3647.4	3720.3	3338.2	3055.1	2810.2	2766.8
52.5°	16284.6	11416.3	2768.5	2579.2	2959.6	3546.6	3657.8	3237.5	2898.8	2617.4	2570.5
55°	17028.0	11188.7	2473.3	2433.3	2817.2	3402.5	3570.9	3152.4	2674.7	2429.8	2388.2
57.5°	17170.4	10410.6	2249.2	2282.2	2645.2	3221.8	3437.2	2963.0	2553.2	2348.2	2304.8
60°	16781.4	9326.8	2082.5	2143.3	2461.1	2994.3	3187.1	2829.3	2436.8	2261.4	2224.9
62.5°	15803.5	8217.0	1959.2	2018.2	2289.2	2763.3	3030.8	2688.6	2318.7	2162.4	2125.9
65°	13828.7	6898.7	1841.1	1907.1	2129.4	2563.6	2890.1	2558.4	2202.3	2082.5	2047.7
67.5°	10438.4	5167.1	1729.9	1788.9	1986.9	2389.9	2737.3	2429.8	2089.4	2013.0	1971.3
70°	6146.7	3235.7	1603.1	1665.6	1837.6	2209.3	2574.0	2289.2	1948.7	1914.0	1860.2
72.5°	2860.6	1947.0	1458.9	1519.7	1650.0	1967.8	2363.8	2105.1	1782.0	1705.6	1632.6
75°	1707.3	1424.2	1288.7	1342.6	1434.6	1710.8	2099.8	1917.5	1623.9	1523.2	1446.8
77.5°	1276.6	1089.0	1101.2	1158.5	1233.2	1497.2	1860.2	1769.8	1502.4	1424.2	1372.1
80°	918.8	826.7	897.9	960.5	1038.6	1361.7	1782.0	1636.1	1358.2	1254.0	1205.4
82.5°	613.1	594.0	675.6	739.9	816.3	1191.5	1674.3	1432.9	1160.2	1028.2	920.5
85°	338.7	357.8	455.1	482.8	548.8	838.9	1372.1	1151.5	873.6	703.4	672.2
87.5°	140.7	165.0	244.9	236.2	291.8	500.2	903.2	694.7	555.8	415.1	323.1
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)