

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: P318703

Luminaire Tested: **GAN-SA9D-730-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318703  
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-SA9D-730-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 63549 lumens  
Efficiency: N/A  
Efficacy: 110.5 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

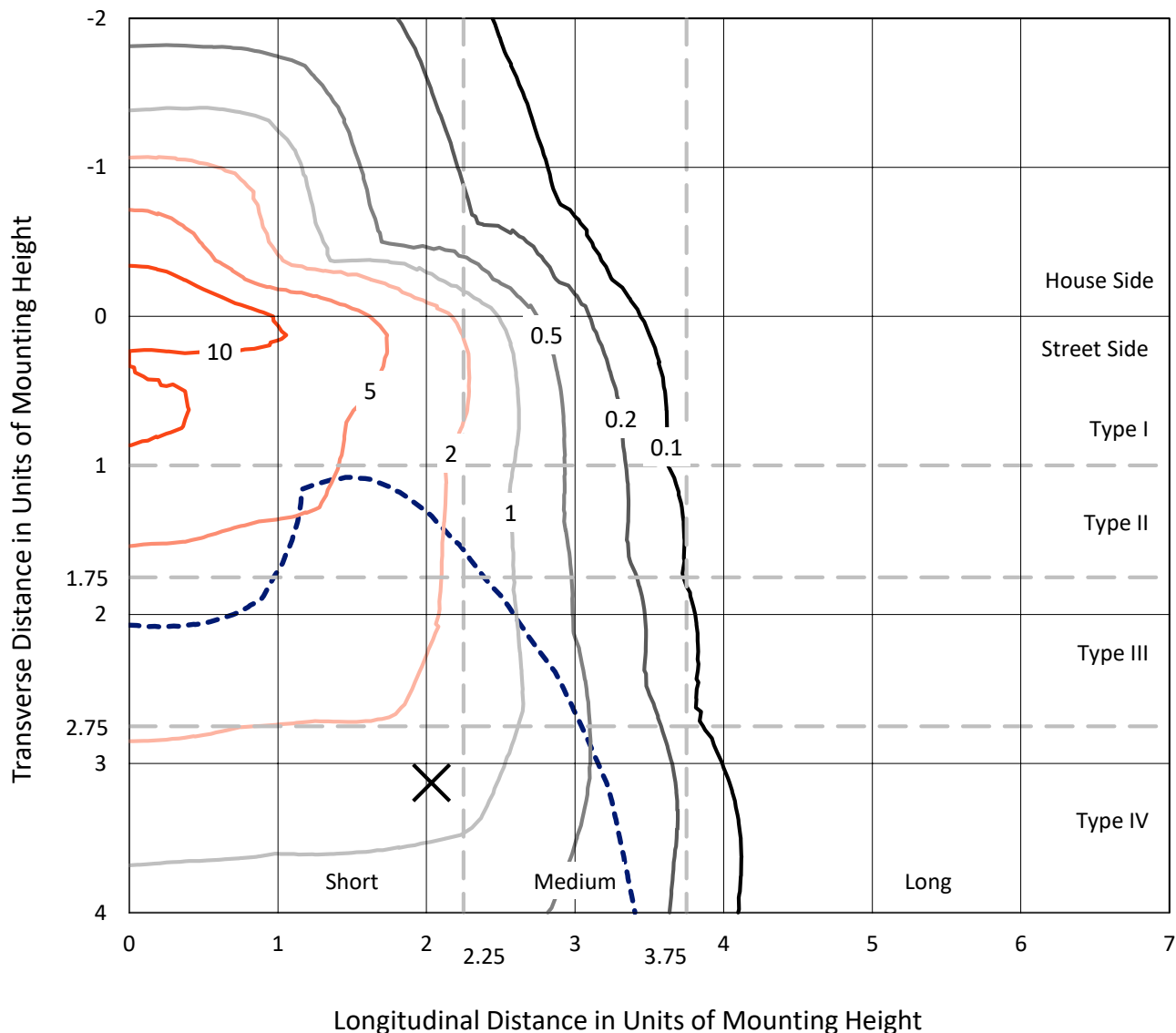
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

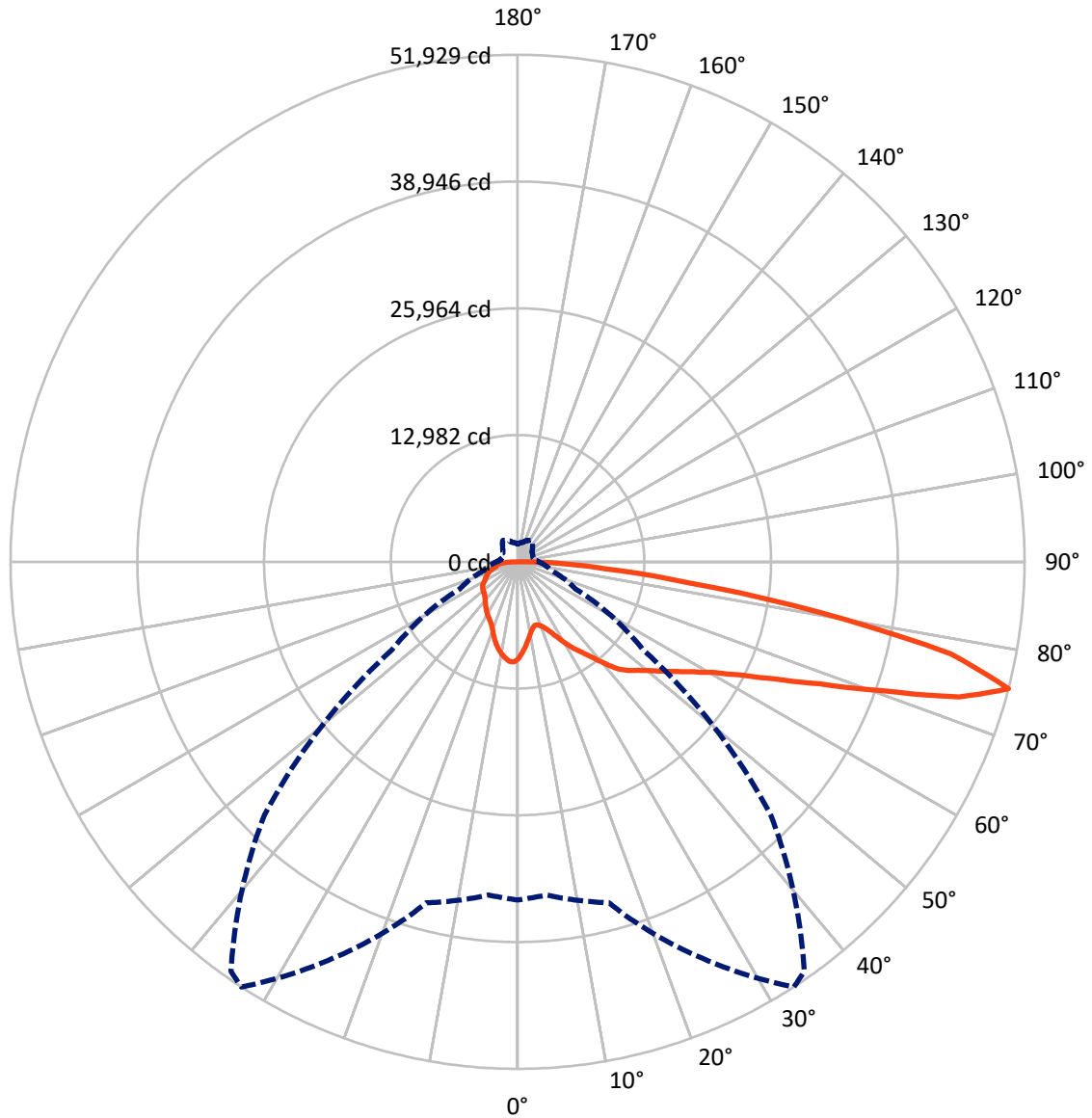
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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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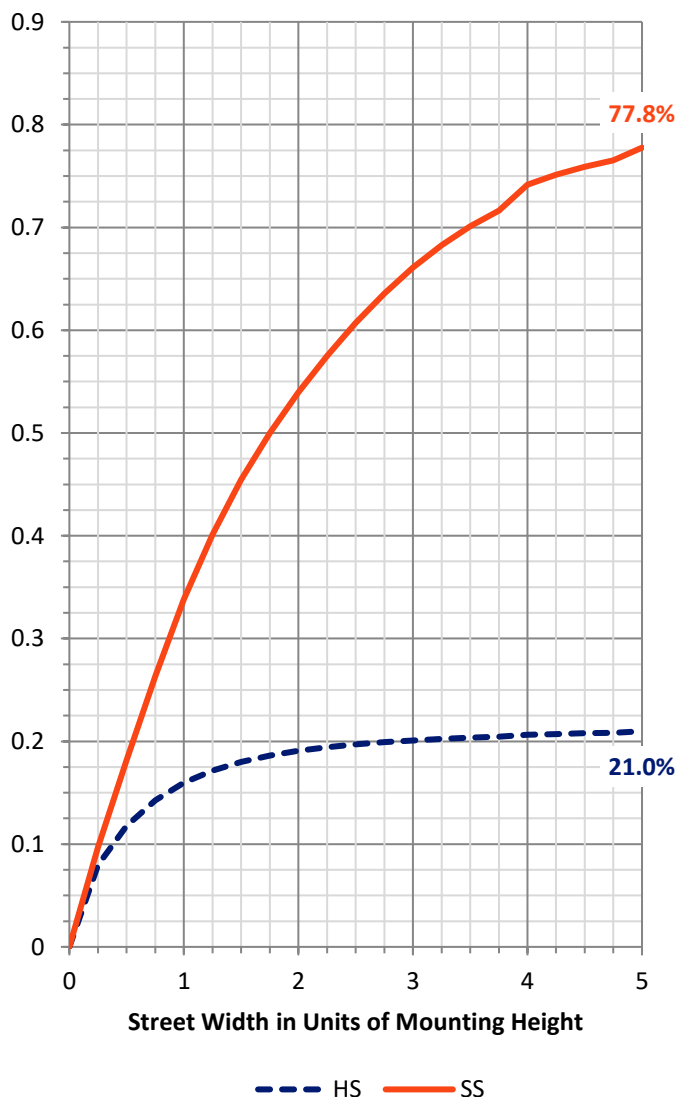
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13645.6	0.0	13645.6
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	49903.4	0.0	49903.4
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	63549.0	0.0	63549.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	898.3	1.4
10°-20°	2433.0	3.8
20°-30°	3973.5	6.3
30°-40°	5917.5	9.3
40°-50°	8487.3	13.4
50°-60°	11651.7	18.3
60°-70°	14587.4	23.0
70°-80°	13196.5	20.8
80°-90°	2403.8	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°	63549.0	100.0
0°-180°	63549.0	100.0

**Coefficient of Utilization**

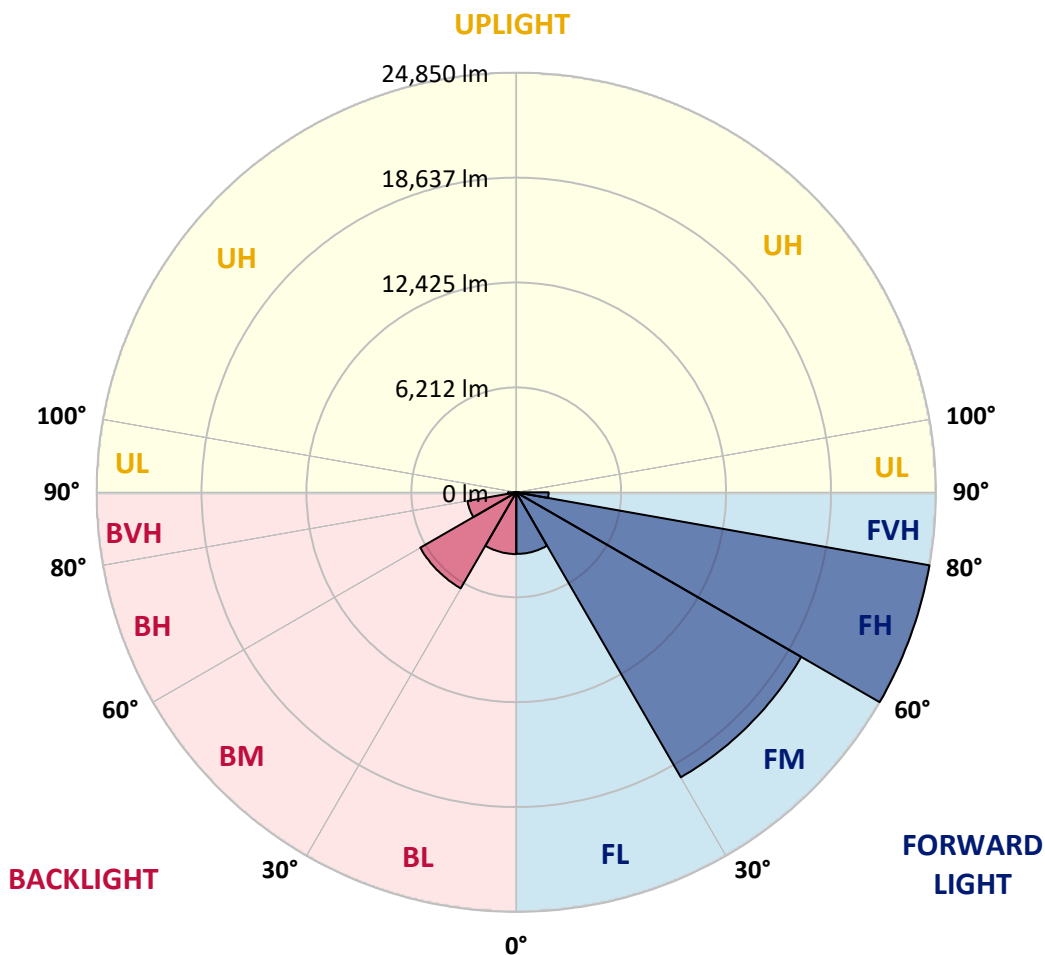


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3649.9	5.7			
FM (30°-60°)	19489.2	30.7			
FH (60°-80°)	24849.9	39.1			G5
FVH (80°-90°)	1914.4	3.0			G5
BL (0°-30°)	3654.9	5.8	B4/5000		
BM (30°-60°)	6567.3	10.3	B4/8500		
BH (60°-80°)	2934.1	4.6	B4/5000		G4/5000
BVH (80°-90°)	489.4	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°	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1
2.5°	9224.0	9188.9	9254.8	9263.5	9320.6	9342.6	9421.6	9544.5	9645.5	9761.8	9867.2
5°	8387.7	8363.5	8455.7	8521.6	8646.7	8699.4	8886.0	9147.2	9379.9	9643.3	9882.6
7.5°	7593.0	7579.9	7683.0	7832.3	7977.2	8049.6	8372.3	8752.1	9140.6	9566.5	9933.1
10°	6923.5	6919.1	7017.9	7165.0	7377.9	7459.1	7876.2	8376.7	8921.1	9507.2	10018.7
12.5°	6548.1	6563.5	6609.6	6732.5	6930.1	7011.3	7474.5	8062.8	8736.7	9487.4	10143.8
15°	6640.3	6664.5	6585.5	6581.1	6721.6	6785.2	7219.9	7838.9	8605.0	9520.4	10326.0
17.5°	7033.3	7037.7	6829.1	6697.4	6783.0	6815.9	7140.8	7711.6	8528.2	9595.0	10554.3
20°	7586.4	7575.5	7206.7	6987.2	7033.3	7042.0	7252.8	7713.8	8521.6	9724.5	10850.6
22.5°	8319.6	8238.4	7742.3	7443.8	7432.8	7419.6	7540.3	7876.2	8618.2	9935.3	11204.1
25°	9276.7	9199.9	8517.2	8108.9	8021.1	7988.2	8005.7	8223.0	8809.1	10161.4	11599.2
27.5°	10341.4	10207.5	9548.9	8971.6	8789.4	8743.3	8637.9	8712.6	9017.7	10378.7	12068.9
30°	11232.6	11160.2	10585.0	9900.1	9685.0	9619.2	9342.6	9261.3	9318.4	10675.0	12661.6
32.5°	11730.9	11682.6	11333.6	10780.4	10580.6	10488.4	10097.7	9935.3	9801.4	11142.6	13465.1
35°	12334.6	12303.8	12093.1	11691.4	11395.0	11298.4	10995.5	10826.5	10481.9	11785.8	14503.4
37.5°	13102.9	13069.9	13074.3	12749.4	12396.0	12306.0	12106.3	11928.5	11364.3	12630.9	15631.7
40°	13972.1	13908.5	13884.3	13869.0	13645.1	13594.6	13489.2	13247.7	12470.7	13640.7	16744.6
42.5°	15280.5	15054.4	14571.4	14753.6	14975.3	14949.0	15034.6	14687.8	13699.9	14834.8	17831.2
45°	16542.7	16171.7	15337.5	15377.0	15862.2	16009.2	16650.2	16404.4	15032.4	16143.2	18955.1
47.5°	17117.8	16836.8	16127.8	16130.0	16610.7	16915.8	18320.7	18145.1	16432.9	17629.3	20327.1
50°	17761.0	17480.0	16843.4	17082.7	17502.0	17826.8	19934.2	19844.2	17765.4	19255.9	21971.3
52.5°	18463.4	17987.1	17583.2	18011.2	18599.5	18977.1	21549.8	21304.0	18988.1	20893.5	23861.3
55°	18472.2	18342.7	18650.0	18963.9	19844.2	20307.4	23242.3	22592.5	19984.7	22502.5	25400.1
57.5°	19523.7	19313.0	19964.9	20109.8	21260.1	21782.5	24926.0	23714.2	20998.8	23736.2	26229.9
60°	20915.4	20735.4	21268.8	21650.8	23011.8	23709.8	26723.8	24866.7	21795.7	24666.9	26190.4
62.5°	23319.1	23115.0	23108.4	23644.0	25476.9	26289.1	28741.1	25997.2	22111.8	24851.3	25073.0
65°	26837.9	26513.1	25900.6	26155.2	28881.6	29691.6	30995.6	26816.0	21694.7	23863.5	22195.2
67.5°	30262.4	30251.4	29498.5	30020.9	33377.3	34027.1	33563.9	26897.2	20393.0	20423.7	17089.3
70°	33675.8	33719.7	33592.4	35410.0	39451.3	40127.4	36299.0	25806.2	17466.8	14749.2	10238.2
72.5°	36380.3	36369.3	37010.3	41696.9	47334.1	47182.6	38604.0	22500.3	12540.9	7961.8	4893.0
75°	34628.5	34246.6	36156.4	44809.6	51928.5	51188.8	36643.7	15695.3	6508.6	3624.2	2634.2
77.5°	22585.9	22948.1	25751.3	37016.9	45422.1	44522.1	26884.0	7323.0	3066.6	2377.4	1909.8
80°	8179.1	8561.1	12058.0	20968.1	31294.1	31147.0	13239.0	3009.6	2074.4	1795.6	1391.7
82.5°	2814.2	2954.7	4756.9	9311.8	17668.8	18327.3	4980.8	1710.0	1508.1	1273.2	952.7
85°	1104.2	1264.4	2175.4	4480.3	8912.3	8978.2	2017.3	1022.9	1049.3	834.2	522.4
87.5°	419.3	509.3	1040.5	2081.0	4069.8	3738.3	722.2	487.3	597.1	496.1	248.1
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°	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1	9933.1
2.5°	9948.4	9994.5	10091.1	10157.0	10227.2	10247.0	10255.8	10273.3	10290.9	10284.3	10286.5
5°	10009.9	10099.9	10255.8	10321.6	10352.3	10317.2	10249.2	10194.3	10154.8	10132.8	10126.2
7.5°	10110.9	10238.2	10405.0	10394.0	10323.8	10167.9	9992.3	9860.6	9750.9	9711.4	9689.4
10°	10244.8	10394.0	10510.4	10385.3	10181.1	9911.1	9647.7	9443.5	9278.9	9215.3	9204.3
12.5°	10416.0	10567.5	10589.4	10323.8	9985.7	9617.0	9259.2	8989.1	8743.3	8664.3	8646.7
15°	10637.7	10780.4	10644.3	10216.2	9744.3	9248.2	8785.0	8418.4	8159.4	8062.8	8027.7
17.5°	10870.4	11006.5	10655.3	10038.4	9428.2	8811.3	8229.6	7854.3	7557.9	7446.0	7432.8
20°	11149.2	11210.6	10609.2	9783.8	8993.5	8245.0	7632.5	7279.1	7121.1	7042.0	7033.3
22.5°	11493.8	11428.0	10503.8	9439.2	8442.6	7590.8	7092.5	6927.9	6888.4	6870.8	6877.4
25°	11858.2	11656.3	10347.9	8989.1	7746.7	6936.7	6697.4	6743.5	6796.2	6789.6	6789.6
27.5°	12259.9	11888.9	10108.7	8392.1	6976.2	6401.1	6429.6	6598.6	6677.7	6675.5	6673.3
30°	12775.8	12152.4	9803.6	7674.3	6256.2	6023.5	6196.9	6403.3	6510.8	6506.4	6508.6
32.5°	13410.2	12442.1	9388.7	6873.0	5735.9	5744.7	5944.5	6148.6	6273.7	6262.8	6265.0
35°	14152.1	12767.0	8826.7	6082.8	5391.3	5523.0	5681.1	5823.7	5942.3	5926.9	5911.5
37.5°	14960.0	13085.3	8080.4	5375.9	5110.3	5316.7	5448.4	5472.5	5527.4	5487.9	5459.3
40°	15728.3	13329.0	7118.9	4796.4	4827.1	5141.0	5226.7	5130.1	5031.3	5018.1	4978.6
42.5°	16397.8	13410.2	6146.4	4333.2	4528.6	4956.7	5009.3	4807.4	4629.6	4546.2	4511.0
45°	17104.6	13438.7	5239.8	3944.7	4241.0	4792.0	4849.1	4579.1	4328.8	4148.8	4089.6
47.5°	18028.8	13645.1	4535.2	3657.1	4021.5	4682.3	4763.5	4396.9	4072.0	3815.2	3760.3
50°	19238.3	14053.4	3962.3	3437.6	3878.8	4609.8	4702.0	4219.1	3861.3	3551.8	3496.9
52.5°	20581.7	14428.7	3499.1	3259.8	3740.5	4482.5	4623.0	4091.8	3663.7	3308.1	3248.8
55°	21521.3	14141.2	3125.9	3075.4	3560.5	4300.3	4513.2	3984.2	3380.5	3071.0	3018.3
57.5°	21701.3	13157.7	2842.7	2884.4	3343.2	4072.0	4344.2	3744.9	3226.9	2967.8	2913.0
60°	21209.6	11788.0	2632.0	2708.8	3110.5	3784.4	4028.1	3575.9	3079.8	2858.1	2812.0
62.5°	19973.7	10385.3	2476.1	2550.8	2893.2	3492.5	3830.5	3398.1	2930.5	2733.0	2686.9
65°	17477.8	8719.1	2326.9	2410.3	2691.3	3240.0	3652.7	3233.5	2783.5	2632.0	2588.1
67.5°	13192.9	6530.6	2186.4	2261.0	2511.3	3020.5	3459.6	3071.0	2640.8	2544.2	2491.5
70°	7768.6	4089.6	2026.1	2105.2	2322.5	2792.2	3253.2	2893.2	2463.0	2419.1	2351.0
72.5°	3615.4	2460.8	1843.9	1920.8	2085.4	2487.1	2987.6	2660.5	2252.2	2155.6	2063.4
75°	2157.8	1800.0	1628.8	1696.9	1813.2	2162.2	2653.9	2423.4	2052.5	1925.1	1828.6
77.5°	1613.4	1376.4	1391.7	1464.2	1558.6	1892.2	2351.0	2236.9	1898.8	1800.0	1734.2
80°	1161.2	1044.9	1134.9	1213.9	1312.7	1721.0	2252.2	2067.8	1716.6	1584.9	1523.4
82.5°	774.9	750.7	853.9	935.1	1031.7	1505.9	2116.1	1811.0	1466.4	1299.5	1163.4
85°	428.1	452.2	575.1	610.3	693.7	1060.3	1734.2	1455.4	1104.2	889.0	849.5
87.5°	177.8	208.5	309.5	298.5	368.8	632.2	1141.5	878.1	702.4	524.6	408.3
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)