

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: P323169

Luminaire Tested: **GAN-SA5C-730-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26666 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

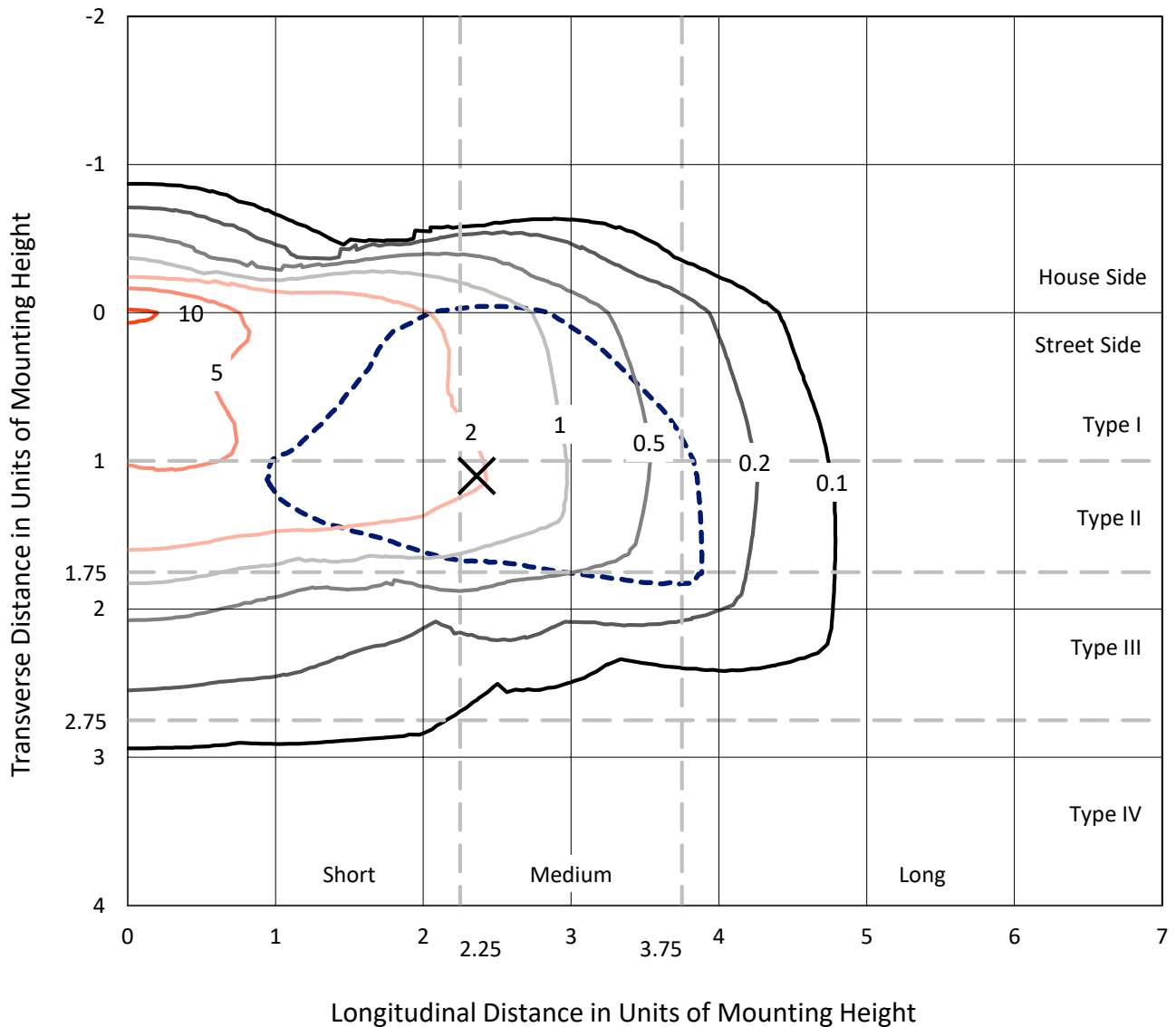
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

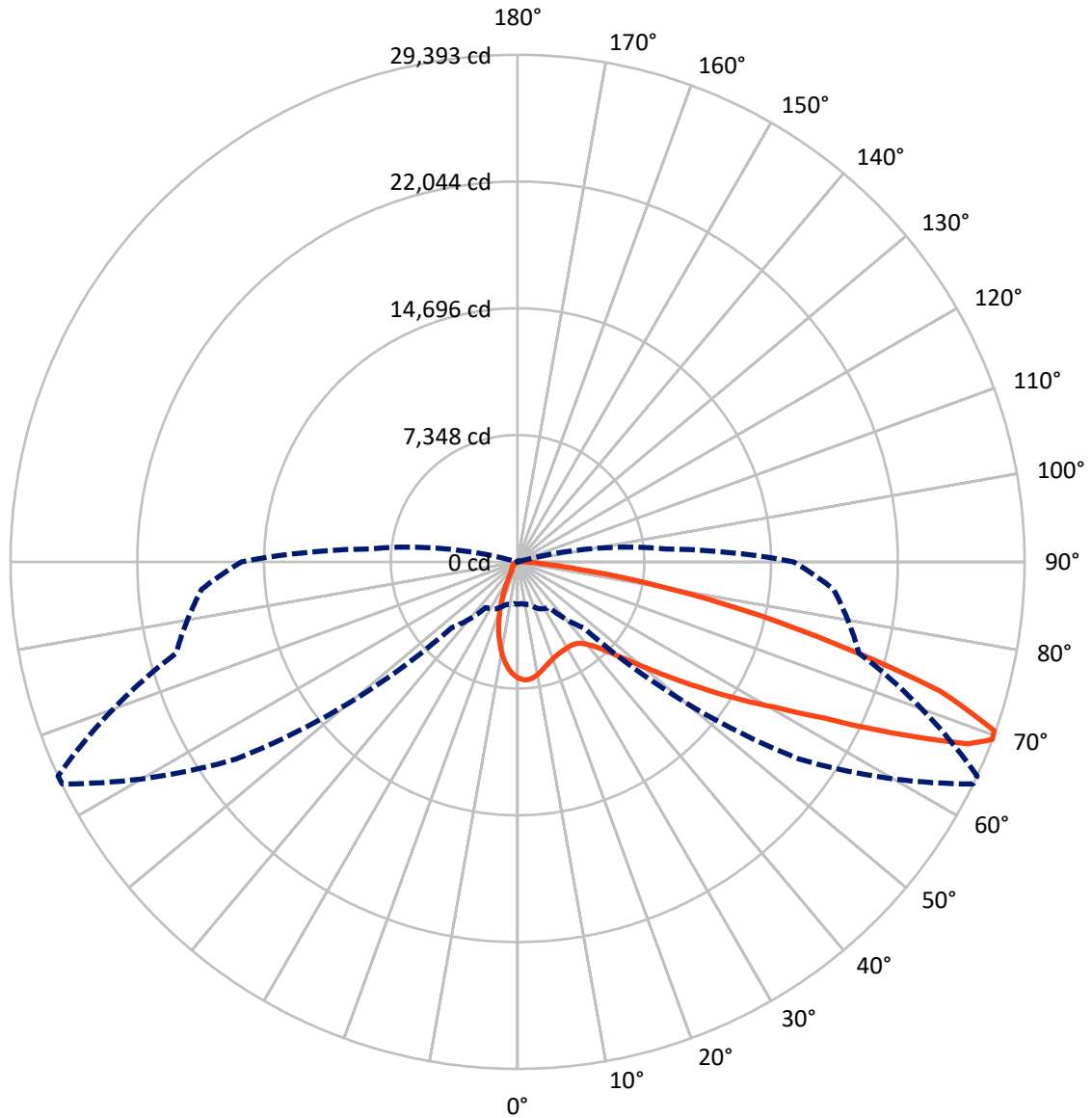
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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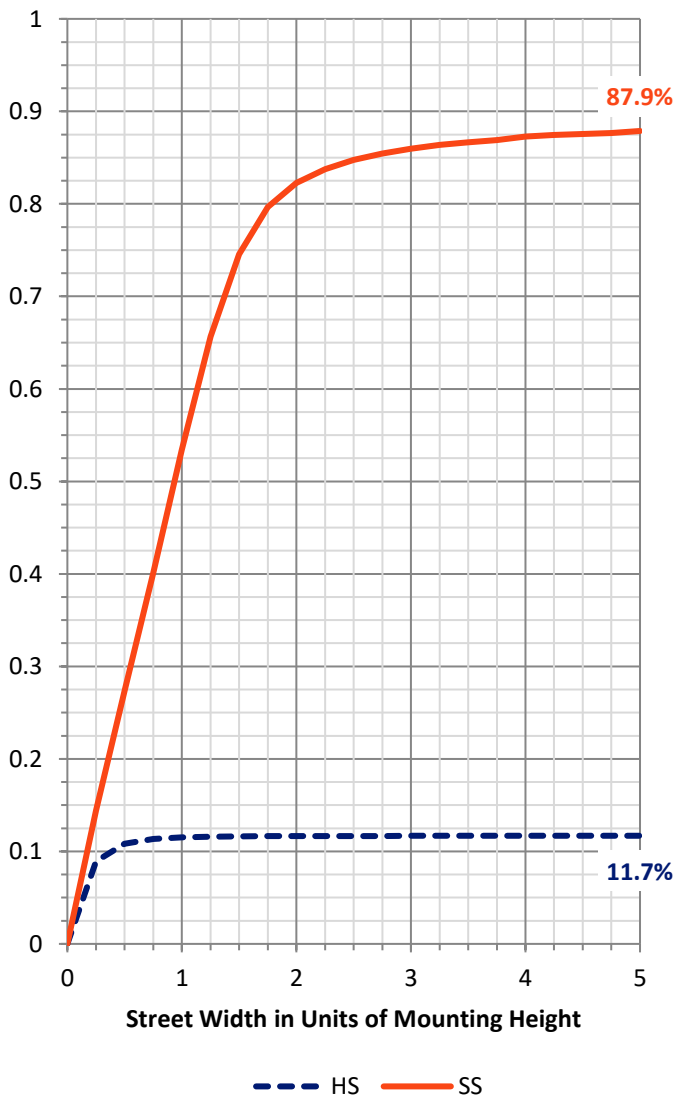
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3143.3	0.0	3143.3
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	23522.7	0.0	23522.7
	% Fixture	88.2	0.0	88.2
Total	Lumens	26666.0	0.0	26666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.5	2.1
10°-20°	1233.5	4.6
20°-30°	1708.4	6.4
30°-40°	2382.1	8.9
40°-50°	3702.6	13.9
50°-60°	5944.0	22.3
60°-70°	6723.7	25.2
70°-80°	3948.9	14.8
80°-90°	459.4	1.7
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°	26666.0	100.0
0°-180°	26666.0	100.0

Coefficient of Utilization

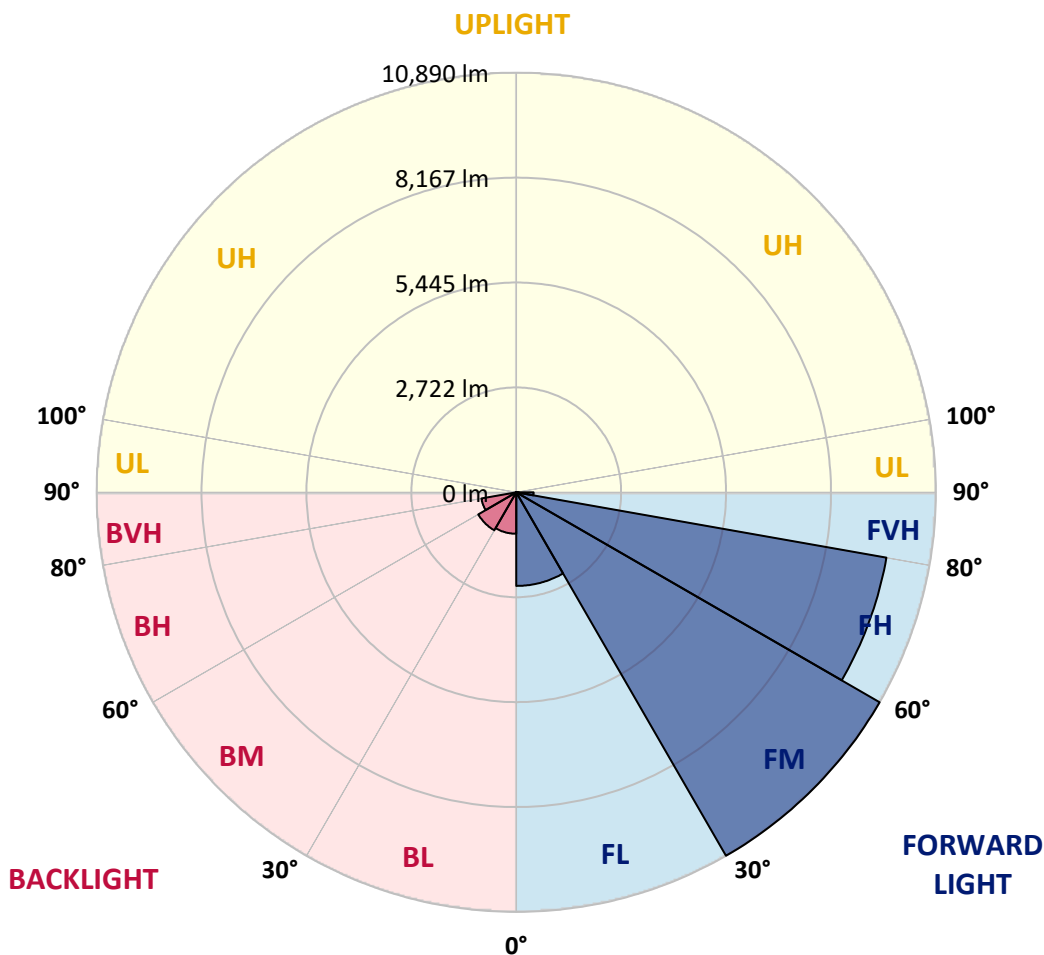


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2429.9	9.1			
FM (30°-60°)	10889.6	40.8			
FH (60°-80°)	9754.2	36.6			G4/12000
FVH (80°-90°)	449.0	1.7			G3/500
BL (0°-30°)	1075.5	4.0	B3/2500		
BM (30°-60°)	1139.0	4.3	B2/2500		
BH (60°-80°)	918.4	3.4	B2/1000		G2/1000
BVH (80°-90°)	10.3	0.0			G1/100
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°	64°	65°	75°	85°
0°	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5
2.5°	6798.3	6781.4	6795.0	6824.3	6839.0	6839.0	6850.3	6836.7	6841.2	6808.5	6761.1
5°	6373.0	6347.0	6384.2	6466.6	6568.2	6655.0	6783.7	6851.4	6858.2	6859.3	6804.0
7.5°	5914.8	5891.1	5946.4	6043.5	6174.4	6335.7	6560.3	6756.6	6767.9	6873.9	6833.3
10°	5542.5	5525.6	5589.9	5693.7	5847.1	6027.7	6303.0	6576.1	6608.8	6843.5	6828.8
12.5°	5246.9	5233.3	5294.2	5413.9	5570.7	5770.4	6058.1	6375.2	6419.2	6774.7	6806.2
15°	5031.3	5029.1	5079.9	5195.0	5368.7	5554.9	5849.4	6189.0	6239.8	6700.2	6802.9
17.5°	4918.5	4921.9	4959.1	5057.3	5206.2	5391.3	5673.4	6032.2	6087.5	6633.6	6819.8
20°	4907.2	4910.6	4930.9	4986.2	5106.9	5270.6	5530.1	5900.2	5957.7	6584.0	6846.9
22.5°	5006.5	5004.3	5009.9	5004.3	5072.0	5196.1	5435.3	5798.6	5865.2	6551.2	6868.3
25°	5197.2	5193.8	5191.6	5149.8	5104.7	5171.3	5395.8	5741.1	5804.3	6527.5	6880.7
27.5°	5462.4	5460.1	5456.7	5387.9	5252.5	5210.8	5400.3	5719.6	5772.7	6508.4	6878.5
30°	5811.0	5826.8	5822.3	5726.4	5515.4	5331.5	5447.7	5708.4	5754.6	6471.1	6854.8
32.5°	6220.6	6252.2	6277.0	6174.4	5910.3	5570.7	5557.2	5720.8	5754.6	6442.9	6811.9
35°	6646.0	6686.6	6778.0	6741.9	6394.4	5930.6	5745.6	5795.2	5823.4	6458.7	6791.6
37.5°	7064.6	7113.2	7311.8	7416.7	7028.5	6406.8	6039.0	5979.2	5993.8	6554.6	6814.1
40°	7551.0	7624.3	7925.6	8094.8	7785.7	7044.3	6477.9	6295.1	6300.7	6765.6	6919.1
42.5°	8189.6	8265.2	8591.3	8856.5	8638.7	7850.0	7073.7	6778.0	6772.4	7160.6	7166.2
45°	8968.2	9047.2	9384.5	9679.0	9580.9	8804.6	7836.4	7483.3	7476.5	7783.4	7634.5
47.5°	9850.6	9928.4	10229.7	10533.2	10639.3	9919.4	8808.0	8445.7	8430.0	8648.9	8357.7
50°	10607.7	10658.5	10936.0	11344.5	11822.9	11289.2	10016.4	9667.8	9650.8	9798.6	9419.5
52.5°	10883.0	10912.3	11194.4	11766.5	12960.3	13144.2	11604.0	11154.9	11142.5	11206.8	10833.4
55°	10325.6	10378.6	10725.0	11573.6	13576.4	15240.7	13608.0	12996.4	12902.8	12764.0	12311.5
57.5°	8806.8	8891.4	9263.8	10392.2	13288.7	16903.9	16553.0	15079.4	14941.7	14093.2	13513.2
60°	6598.6	6702.4	7011.6	8229.1	11753.0	17496.3	19771.1	17400.4	17090.1	15151.6	14617.9
62.5°	4528.1	4580.0	4789.9	5583.1	8655.6	16525.9	22463.3	20509.0	19942.6	16302.5	15812.8
65°	3458.4	3476.5	3562.2	3835.3	5154.3	13424.1	23534.1	24610.6	23925.7	17679.1	17052.9
67.5°	2787.0	2772.4	2890.8	3281.3	3451.6	8189.6	22285.0	28491.0	28170.5	19519.4	18300.8
69°	2457.6	2437.3	2558.0	3011.6	3241.8	5413.9	19922.3	29372.2	29392.6	20491.0	18386.6
70°	2211.6	2225.1	2344.7	2851.4	3170.7	4249.4	17665.5	29147.7	29307.9	20854.3	17872.0
72.5°	1477.0	1513.1	1753.5	2367.3	3048.8	3215.8	10666.4	25012.3	25628.4	20036.2	15333.2
75°	832.7	859.8	1145.3	1785.1	2872.8	3062.4	5633.9	18427.2	19023.0	16755.0	11824.0
77.5°	408.5	423.1	647.7	1152.1	2402.3	2917.9	3195.5	12516.9	13197.3	10936.0	6687.8
80°	172.6	180.5	323.8	710.9	1717.4	2784.8	2372.9	7703.3	7787.9	4284.4	1781.7
82.5°	66.6	68.8	136.5	443.4	1091.1	2171.0	1984.8	3652.5	3564.5	806.8	406.2
85°	7.9	9.0	49.6	266.3	607.1	1117.1	1612.4	1574.1	1456.7	160.2	208.7
87.5°	0.0	0.0	3.4	81.2	180.5	523.6	838.4	653.3	589.0	51.9	108.3
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°	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5
2.5°	6721.6	6710.3	6649.4	6561.4	6477.9	6374.1	6274.8	6215.0	6167.6	6136.0	6173.2
5°	6739.7	6690.0	6505.0	6268.0	6035.6	5773.8	5530.1	5323.6	5242.3	5152.1	5192.7
7.5°	6734.0	6640.4	6307.5	5885.5	5459.0	5017.8	4600.3	4278.7	4111.7	3948.1	3989.9
10°	6705.8	6547.9	6043.5	5418.4	4779.7	4145.6	3553.2	3103.0	2851.4	2623.4	2656.2
12.5°	6643.8	6423.7	5732.1	4883.5	4029.4	3193.2	2499.3	1922.7	1613.5	1477.0	1493.9
15°	6606.5	6303.0	5402.6	4341.9	3228.2	2224.0	1527.8	1136.3	995.2	950.1	955.7
17.5°	6588.5	6186.8	5061.8	3722.4	2409.0	1416.1	987.3	871.1	840.6	832.7	835.0
20°	6570.4	6069.4	4710.9	3109.8	1659.8	952.3	811.3	777.4	766.2	756.0	758.3
22.5°	6540.0	5956.6	4334.0	2489.2	1119.3	772.9	731.2	698.5	674.8	662.3	664.6
25°	6502.7	5838.1	3949.2	1853.9	816.9	689.4	649.9	603.7	575.5	552.9	554.0
27.5°	6442.9	5692.6	3552.1	1349.5	686.0	617.2	564.2	513.4	466.0	440.1	440.1
30°	6359.4	5527.8	3110.9	965.9	615.0	546.1	481.8	418.6	367.8	344.1	341.9
32.5°	6266.9	5356.3	2665.2	732.3	558.5	479.6	406.2	339.6	294.5	275.3	274.2
35°	6187.9	5171.3	2220.6	613.8	502.1	415.2	335.1	278.7	242.6	226.8	225.7
37.5°	6137.1	4986.2	1787.3	548.4	451.3	355.4	281.0	230.2	204.2	191.8	190.7
40°	6129.2	4848.5	1391.3	498.7	404.0	302.4	234.7	195.2	171.5	158.0	156.8
42.5°	6231.9	4769.6	1067.4	457.0	355.4	256.1	199.7	167.0	142.2	128.6	127.5
45°	6501.6	4794.4	821.4	419.7	306.9	216.6	169.3	138.8	116.2	106.1	103.8
47.5°	6993.6	4965.9	653.3	382.5	260.7	183.9	144.4	115.1	95.9	85.8	84.6
50°	7869.2	5368.7	546.1	341.9	217.8	156.8	119.6	93.7	77.9	68.8	67.7
52.5°	9031.4	6086.4	487.5	302.4	180.5	133.1	98.2	74.5	60.9	54.2	53.0
55°	10313.2	6955.2	449.1	259.5	147.8	110.6	77.9	58.7	47.4	41.7	39.5
57.5°	11564.5	7707.8	413.0	217.8	123.0	90.3	62.1	46.3	37.2	31.6	30.5
60°	12714.3	8399.5	371.2	174.9	100.4	71.1	48.5	36.1	29.3	23.7	23.7
62.5°	13945.4	8934.3	313.7	136.5	82.4	54.2	39.5	32.7	23.7	20.3	19.2
65°	15249.7	9331.5	246.0	106.1	64.3	40.6	32.7	33.9	19.2	14.7	13.5
67.5°	16213.4	9252.5	181.7	83.5	49.6	31.6	31.6	36.1	16.9	11.3	10.2
69°	16001.2	8610.5	152.3	72.2	42.9	27.1	29.3	36.1	15.8	10.2	9.0
70°	15386.3	7899.6	134.3	64.3	38.4	24.8	28.2	35.0	14.7	10.2	9.0
72.5°	12813.6	5949.8	104.9	48.5	30.5	20.3	23.7	30.5	14.7	10.2	7.9
75°	9638.4	3808.2	80.1	35.0	22.6	15.8	18.1	22.6	14.7	9.0	7.9
77.5°	5244.6	1373.2	57.5	23.7	15.8	12.4	12.4	16.9	13.5	6.8	4.5
80°	1348.4	345.3	36.1	15.8	12.4	9.0	7.9	11.3	7.9	1.1	0.0
82.5°	332.9	77.9	19.2	11.3	9.0	3.4	3.4	5.6	3.4	0.0	0.0
85°	182.8	38.4	12.4	7.9	4.5	0.0	0.0	1.1	0.0	0.0	0.0
87.5°	93.7	11.3	3.4	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
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)