

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: P319951

Luminaire Tested: **GAN-SA7A-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28524 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

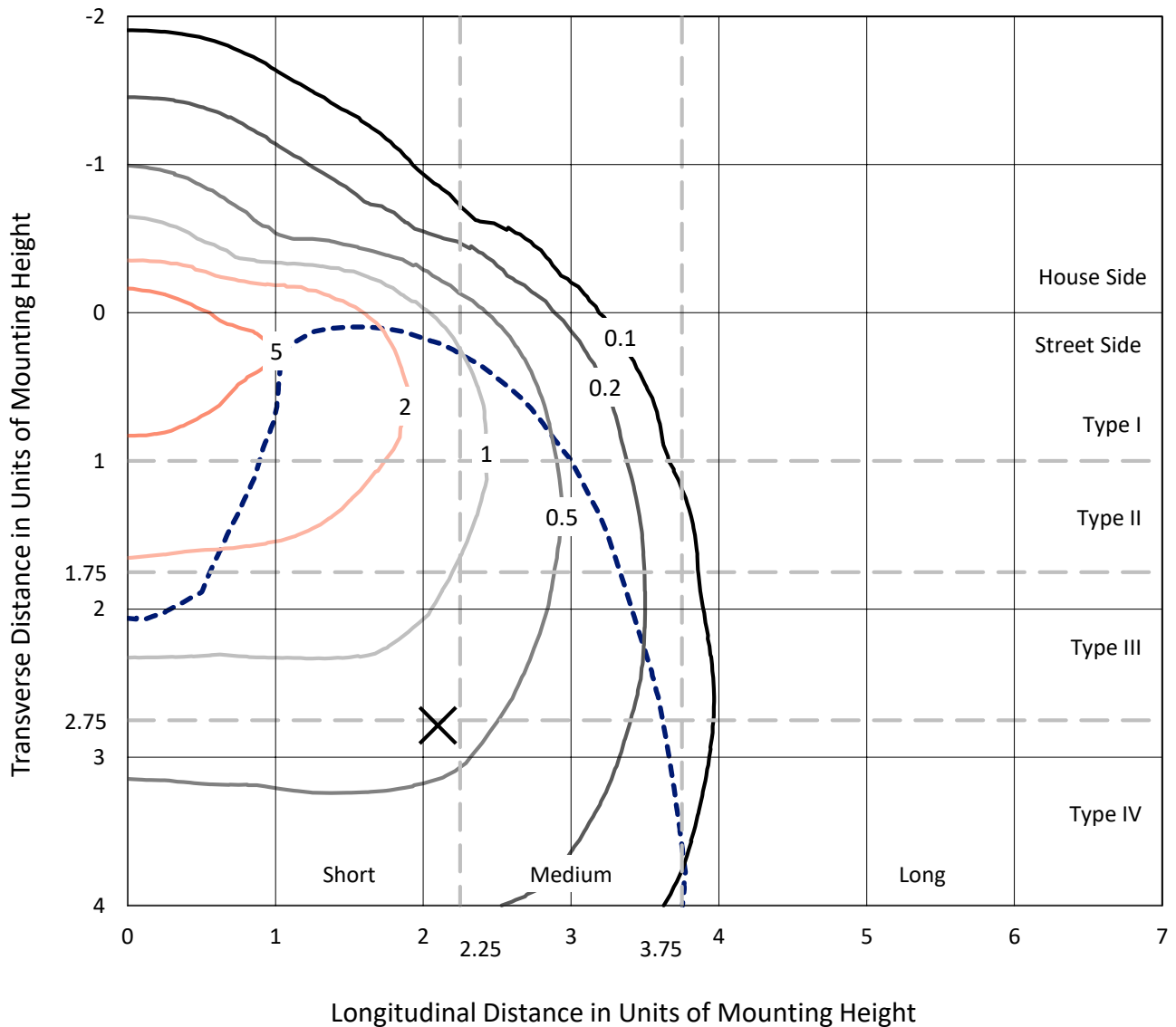
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

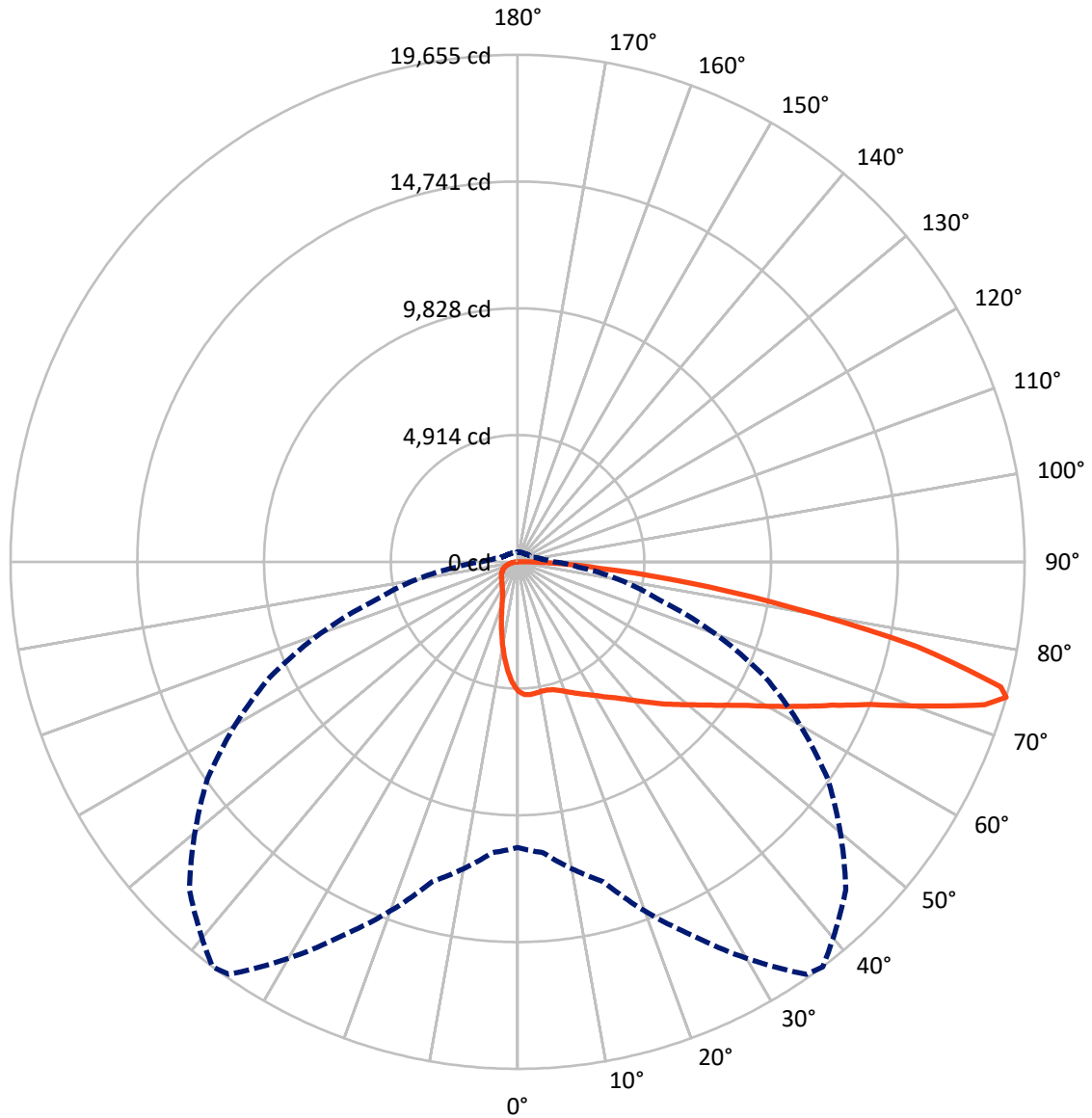
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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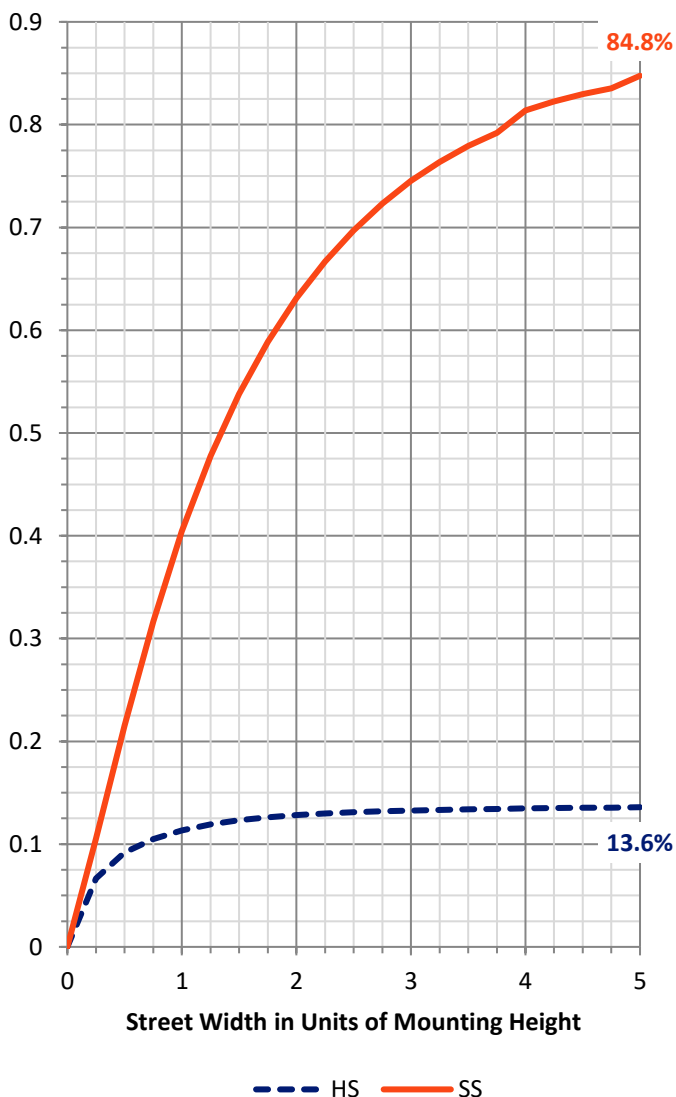
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3924.7	0.0	3924.7
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	24599.3	0.0	24599.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	28524.0	0.0	28524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.6	1.6
10°-20°	1134.5	4.0
20°-30°	1748.0	6.1
30°-40°	2541.8	8.9
40°-50°	3741.1	13.1
50°-60°	5253.7	18.4
60°-70°	6649.6	23.3
70°-80°	5855.2	20.5
80°-90°	1157.7	4.1
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°	28524.0	100.0
0°-180°	28524.0	100.0

Coefficient of Utilization

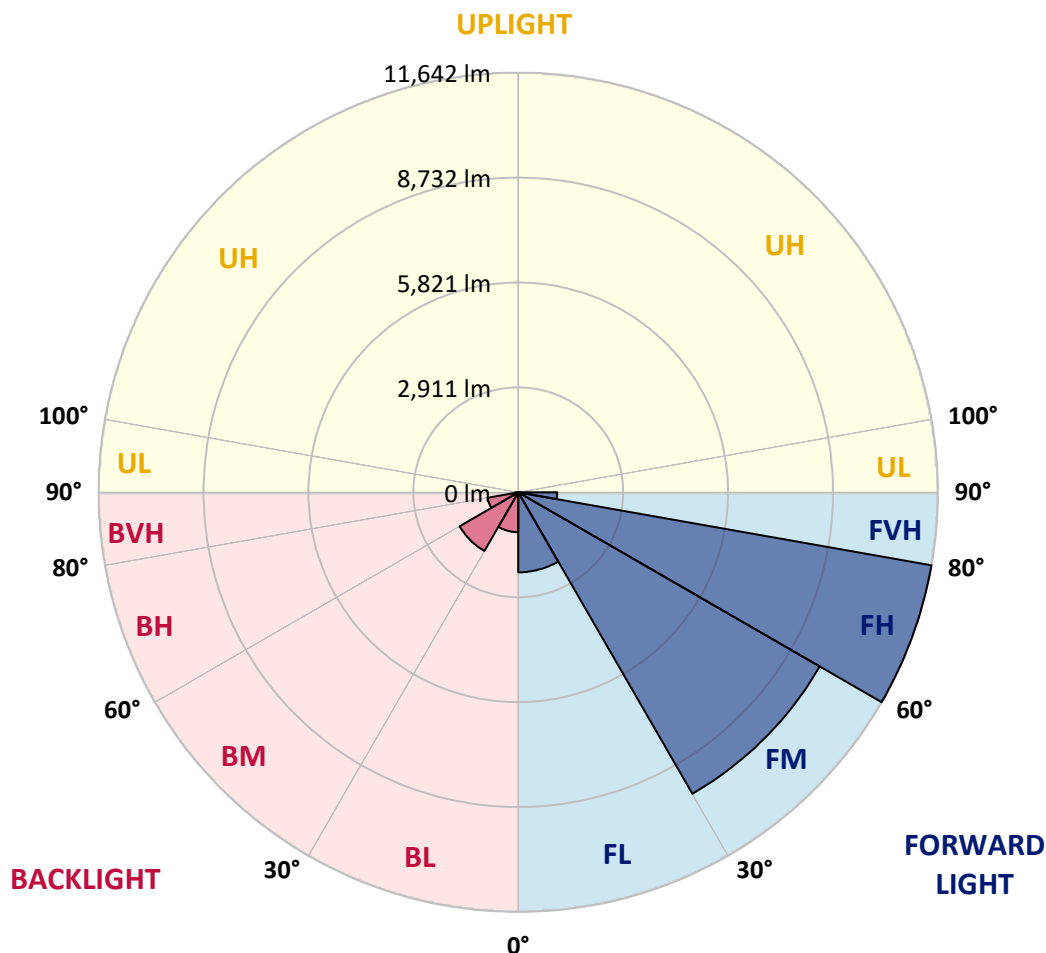


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2219.5	7.8			
FM (30°-60°)	9658.5	33.9			
FH (60°-80°)	11642.0	40.8			G4/12000
FVH (80°-90°)	1079.3	3.8			G5
BL (0°-30°)	1105.5	3.9	B3/2500		
BM (30°-60°)	1878.1	6.6	B2/2500		
BH (60°-80°)	862.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	78.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8
2.5°	5197.6	5198.6	5197.6	5189.6	5170.5	5154.4	5141.4	5122.3	5080.1	5047.9	4999.7
5°	5246.9	5240.8	5236.8	5221.7	5191.6	5173.5	5148.4	5112.2	5042.9	4978.6	4900.2
7.5°	5223.8	5216.7	5207.7	5189.6	5155.4	5140.4	5105.2	5058.0	4974.6	4890.2	4777.6
10°	5152.4	5150.4	5146.4	5142.4	5113.2	5101.2	5069.0	5018.8	4936.4	4833.9	4702.3
12.5°	5073.0	5078.1	5094.1	5115.2	5102.2	5096.2	5076.1	5041.9	4957.5	4847.0	4688.2
15°	5022.8	5036.9	5080.1	5135.3	5146.4	5144.4	5139.4	5117.3	5027.8	4905.2	4720.4
17.5°	5005.7	5028.8	5111.2	5202.7	5234.8	5241.8	5243.9	5205.7	5106.2	4976.6	4753.5
20°	5036.9	5066.0	5186.6	5312.2	5363.4	5367.4	5358.4	5292.1	5180.6	5037.9	4771.6
22.5°	5131.3	5157.4	5308.2	5449.8	5508.1	5514.1	5487.0	5386.5	5258.9	5110.2	4796.7
25°	5313.2	5345.3	5496.0	5637.7	5667.9	5668.9	5629.7	5505.1	5361.4	5211.7	4851.0
27.5°	5550.3	5582.5	5718.1	5856.8	5840.7	5831.6	5778.4	5653.8	5495.0	5351.4	4947.4
30°	5814.6	5849.7	5978.3	6076.8	6038.6	6020.5	5977.3	5816.6	5680.9	5542.3	5095.1
32.5°	6087.9	6120.0	6232.5	6299.9	6251.6	6243.6	6178.3	6031.6	5923.1	5833.6	5334.3
35°	6368.2	6391.3	6501.8	6540.0	6475.7	6473.7	6455.6	6321.0	6252.6	6294.8	5681.9
37.5°	6654.5	6660.6	6755.0	6757.0	6737.9	6746.0	6765.1	6680.7	6699.8	6831.4	6134.1
40°	6909.7	6925.8	6994.1	7015.2	7048.4	7076.5	7172.0	7116.7	7264.4	7497.5	6696.7
42.5°	7098.6	7129.8	7239.3	7293.6	7401.1	7445.3	7579.9	7631.2	7928.6	8278.2	7365.9
45°	7258.4	7306.6	7482.5	7594.0	7775.9	7853.2	8046.1	8217.9	8679.1	9125.2	8070.2
47.5°	7431.2	7492.5	7712.6	7925.6	8172.7	8260.1	8610.8	8868.0	9479.9	9977.3	8734.4
50°	7685.4	7732.6	7947.7	8282.3	8590.7	8703.2	9188.5	9557.3	10293.8	10789.1	9310.1
52.5°	8040.1	8022.0	8203.9	8673.1	9087.1	9225.7	9805.5	10290.8	11118.7	11523.6	9796.4
55°	8396.8	8366.7	8494.3	9082.0	9665.8	9811.5	10484.7	11027.3	11903.4	12184.7	10169.2
57.5°	8793.7	8736.4	8843.9	9543.2	10324.9	10498.8	11245.3	11810.0	12675.1	12719.3	10406.3
60°	9202.6	9125.2	9245.8	10114.9	11161.9	11366.9	12135.5	12573.6	13402.5	13147.3	10482.7
62.5°	9560.3	9506.1	9691.9	10753.0	12105.4	12330.4	13009.7	13385.4	14119.9	13325.2	10207.4
65°	9872.8	9881.8	10203.4	11470.4	13157.4	13397.5	14012.4	14386.2	14684.6	13219.7	9563.3
67.5°	10245.6	10296.8	10845.4	12414.8	14481.6	14744.9	15471.3	15477.3	15000.1	12600.7	8295.3
70°	10789.1	10894.6	11728.6	13725.0	16364.6	16726.3	17286.9	16118.4	14557.0	10922.8	6526.9
72.5°	11271.4	11468.4	12668.0	15224.1	18659.4	18933.7	18349.0	15748.6	12705.2	8185.8	4066.3
74°	11075.5	11319.6	12838.8	15962.6	19523.5	19655.1	17990.3	14669.5	10593.2	5668.9	2363.2
75°	10653.5	10918.7	12589.7	15955.6	19414.0	19340.7	17124.2	13436.7	8724.3	3866.3	1572.5
77.5°	8597.7	8878.1	10608.3	13674.8	15918.4	15849.1	13154.3	9013.7	3821.1	1268.0	798.8
80°	4998.7	5212.7	6585.2	8684.2	10733.9	10859.5	8651.0	4460.1	1503.1	712.4	541.6
82.5°	2220.5	2368.2	3181.1	4433.0	6477.7	6639.5	4530.5	2337.1	928.4	433.1	325.5
85°	1456.9	1566.4	1931.2	2111.0	3084.6	3195.1	2217.5	1819.6	612.9	238.1	239.1
87.5°	1048.0	1153.5	1434.8	1252.9	1415.7	1340.4	1206.7	1684.0	246.2	135.6	80.4
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°	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8	5025.8
2.5°	4978.6	4962.5	4926.3	4858.0	4819.8	4787.7	4734.4	4703.3	4689.2	4688.2	4694.2
5°	4855.0	4817.8	4724.4	4609.8	4518.4	4435.0	4331.5	4269.2	4225.0	4198.9	4205.9
7.5°	4711.3	4653.1	4506.4	4323.5	4176.8	4015.0	3855.3	3759.8	3685.5	3630.2	3640.3
10°	4612.9	4532.5	4318.5	4055.2	3811.1	3575.9	3355.9	3224.3	3119.8	3039.4	3045.4
12.5°	4579.7	4471.2	4174.8	3823.1	3480.5	3159.0	2871.6	2669.7	2562.1	2470.7	2477.7
15°	4584.7	4439.0	4054.2	3614.1	3183.1	2778.2	2429.5	2193.4	2047.7	1984.4	1985.4
17.5°	4588.7	4401.9	3927.6	3390.1	2888.7	2422.5	2043.7	1804.6	1666.9	1608.6	1609.6
20°	4575.7	4341.6	3770.9	3132.8	2581.2	2095.9	1729.2	1526.2	1421.7	1376.5	1376.5
22.5°	4558.6	4270.2	3594.0	2874.6	2277.8	1812.6	1504.1	1349.4	1289.1	1259.0	1258.0
25°	4566.6	4217.0	3413.2	2609.4	1998.5	1586.5	1354.4	1251.9	1211.7	1192.7	1191.6
27.5°	4609.8	4191.9	3246.4	2345.1	1754.3	1416.7	1253.9	1181.6	1155.5	1143.4	1143.4
30°	4688.2	4191.9	3072.6	2120.0	1551.4	1291.1	1176.6	1127.3	1109.3	1101.2	1101.2
32.5°	4824.9	4215.0	2904.8	1897.0	1389.6	1192.7	1112.3	1079.1	1065.0	1061.0	1061.0
35°	5060.0	4293.3	2741.0	1686.0	1259.0	1112.3	1051.0	1031.9	1021.8	1020.8	1023.9
37.5°	5390.5	4453.1	2587.3	1530.3	1166.5	1047.0	999.7	984.7	978.6	983.7	987.7
40°	5806.5	4670.1	2447.6	1389.6	1096.2	994.7	952.5	942.5	939.5	946.5	952.5
42.5°	6308.9	4963.5	2333.1	1288.1	1041.9	950.5	912.3	900.3	897.3	905.3	913.3
45°	6852.5	5279.0	2252.7	1212.7	999.7	917.3	877.2	864.1	858.1	862.1	871.1
47.5°	7346.8	5577.4	2220.5	1159.5	959.5	889.2	846.0	829.9	819.9	817.9	824.9
50°	7763.8	5799.5	2235.6	1127.3	927.4	858.1	815.9	797.8	782.7	773.7	778.7
52.5°	8067.2	5939.1	2249.7	1113.3	902.3	823.9	782.7	765.6	745.5	730.5	730.5
55°	8287.3	5971.3	2218.5	1102.2	883.2	786.7	745.5	729.5	709.4	692.3	690.3
57.5°	8373.7	5880.9	2103.0	1086.1	870.1	751.6	706.3	694.3	677.2	657.1	656.1
60°	8257.1	5601.5	1879.9	1052.0	853.0	722.4	667.2	659.1	651.1	632.0	631.0
62.5°	7788.9	4988.6	1591.5	982.7	818.9	691.3	631.0	635.0	636.0	623.0	620.9
65°	6939.9	4146.7	1310.2	892.2	767.6	654.1	593.8	612.9	624.0	621.9	618.9
67.5°	5706.0	3227.3	1110.3	796.8	700.3	602.9	553.6	575.7	584.8	591.8	589.8
70°	4235.1	2275.8	918.4	696.3	618.9	542.6	501.4	512.4	506.4	514.4	517.5
72.5°	2361.2	1365.5	748.5	595.8	534.5	472.2	443.1	441.1	428.0	428.0	428.0
74°	1416.7	1001.7	658.1	533.5	483.3	426.0	400.9	391.9	379.8	380.8	379.8
75°	1139.4	861.1	603.9	492.3	447.1	398.9	373.8	361.7	352.7	352.7	351.7
77.5°	719.4	654.1	486.3	391.9	357.7	328.6	311.5	295.4	295.4	294.4	293.4
80°	543.6	520.5	378.8	296.4	274.3	252.2	241.1	234.1	234.1	237.1	236.1
82.5°	372.8	391.9	266.3	207.0	195.9	179.9	177.8	178.8	175.8	171.8	170.8
85°	272.3	294.4	179.9	130.6	119.6	109.5	117.6	121.6	116.6	107.5	103.5
87.5°	104.5	192.9	96.5	54.3	50.2	43.2	50.2	52.2	56.3	44.2	45.2
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)