

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: P319974

Luminaire Tested: **GAN-SA0C-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319974
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-SA0C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3000K, 1050mA 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: 60583 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

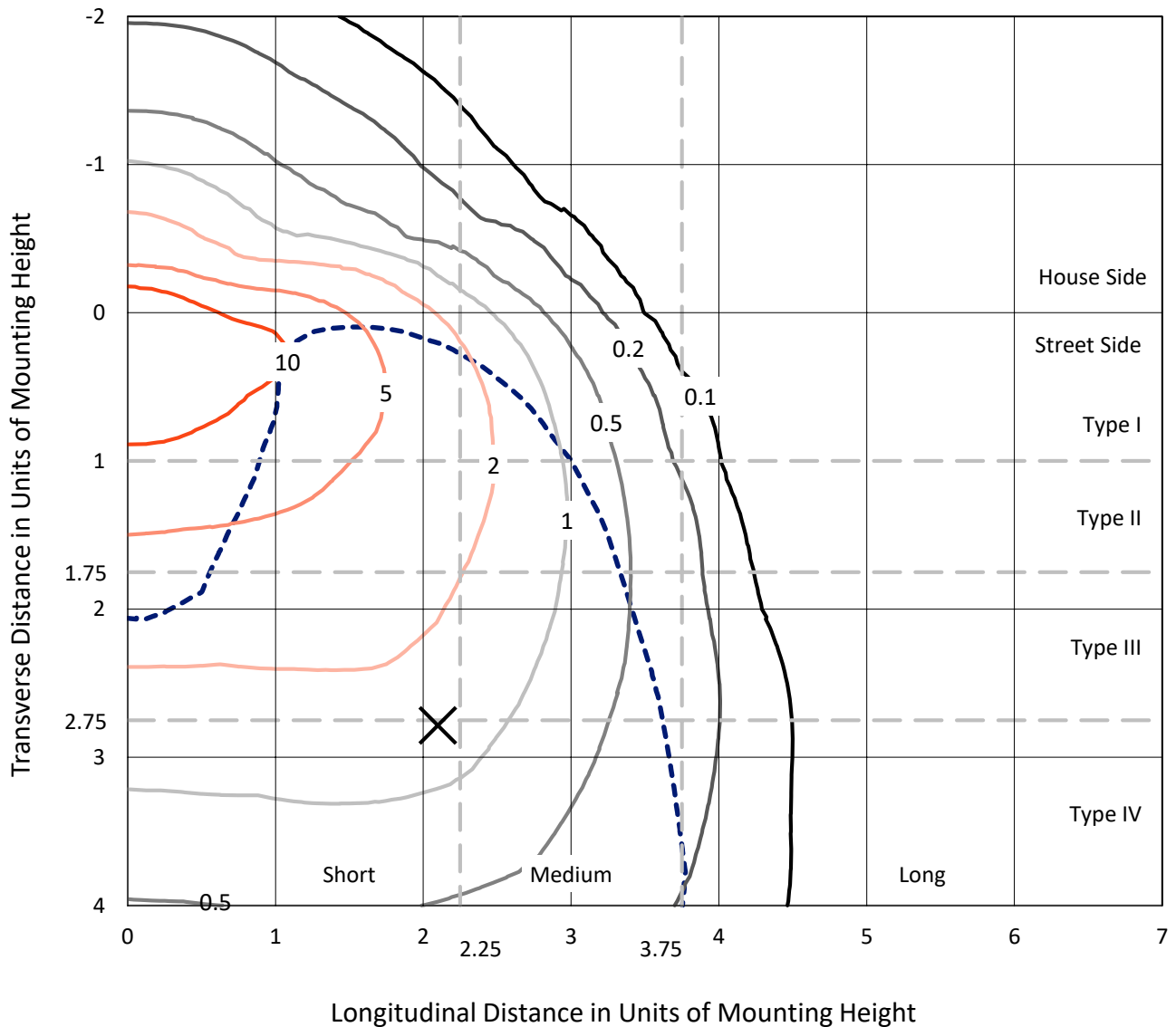
Input Watts (W): 558
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

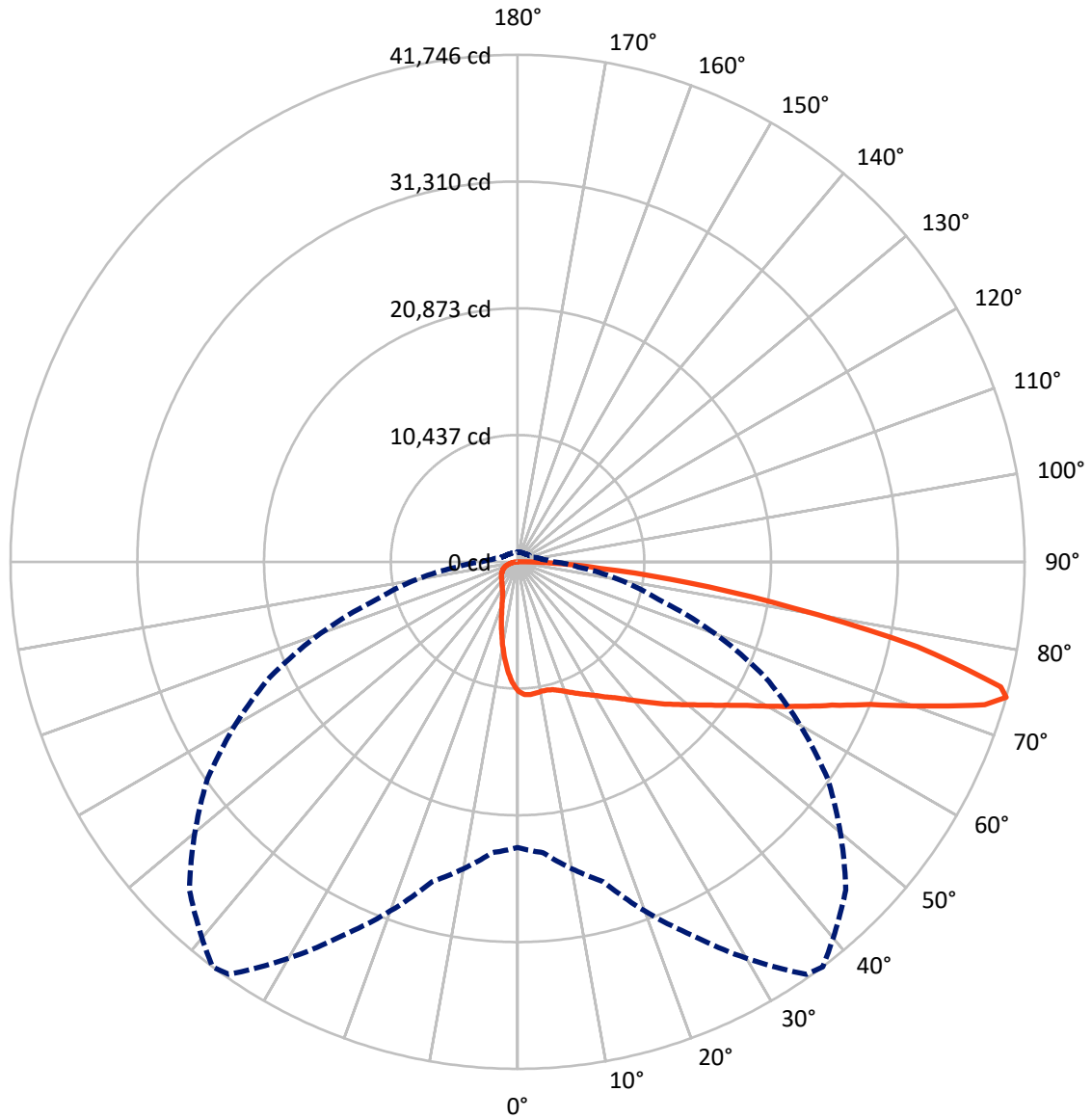
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.4 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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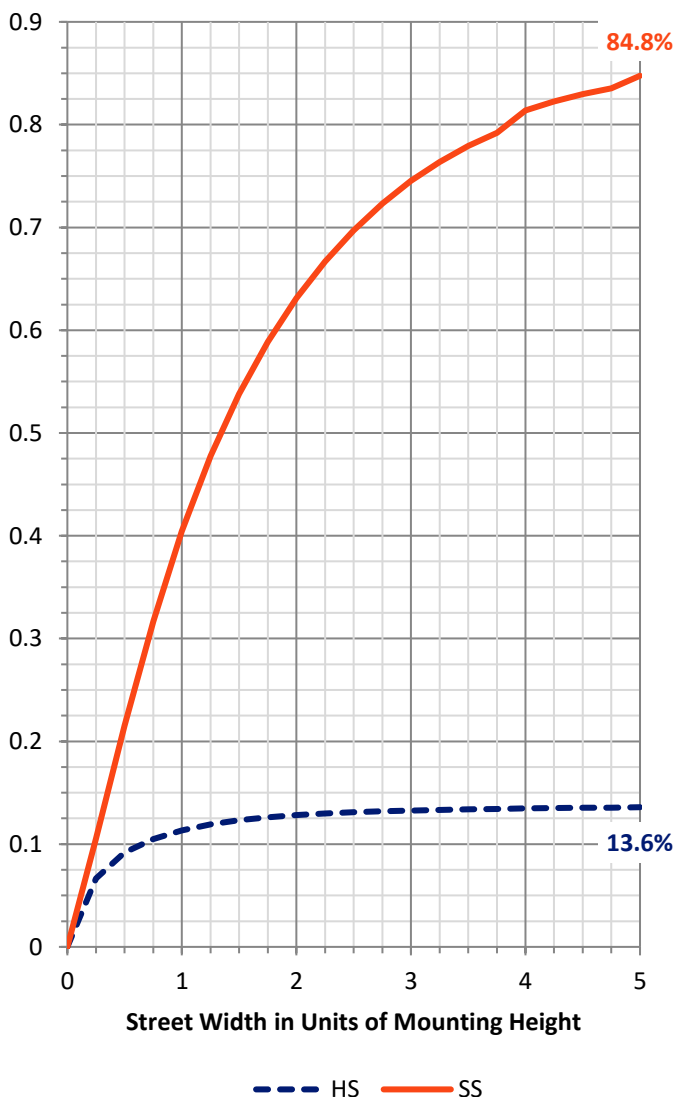
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8335.8	0.0	8335.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	52247.2	0.0	52247.2
	% Fixture	86.2	0.0	86.2
Total	Lumens	60583.0	0.0	60583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	940.0	1.6
10°-20°	2409.5	4.0
20°-30°	3712.6	6.1
30°-40°	5398.6	8.9
40°-50°	7945.8	13.1
50°-60°	11158.5	18.4
60°-70°	14123.2	23.3
70°-80°	12436.0	20.5
80°-90°	2458.9	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°	60583.0	100.0
0°-180°	60583.0	100.0

Coefficient of Utilization

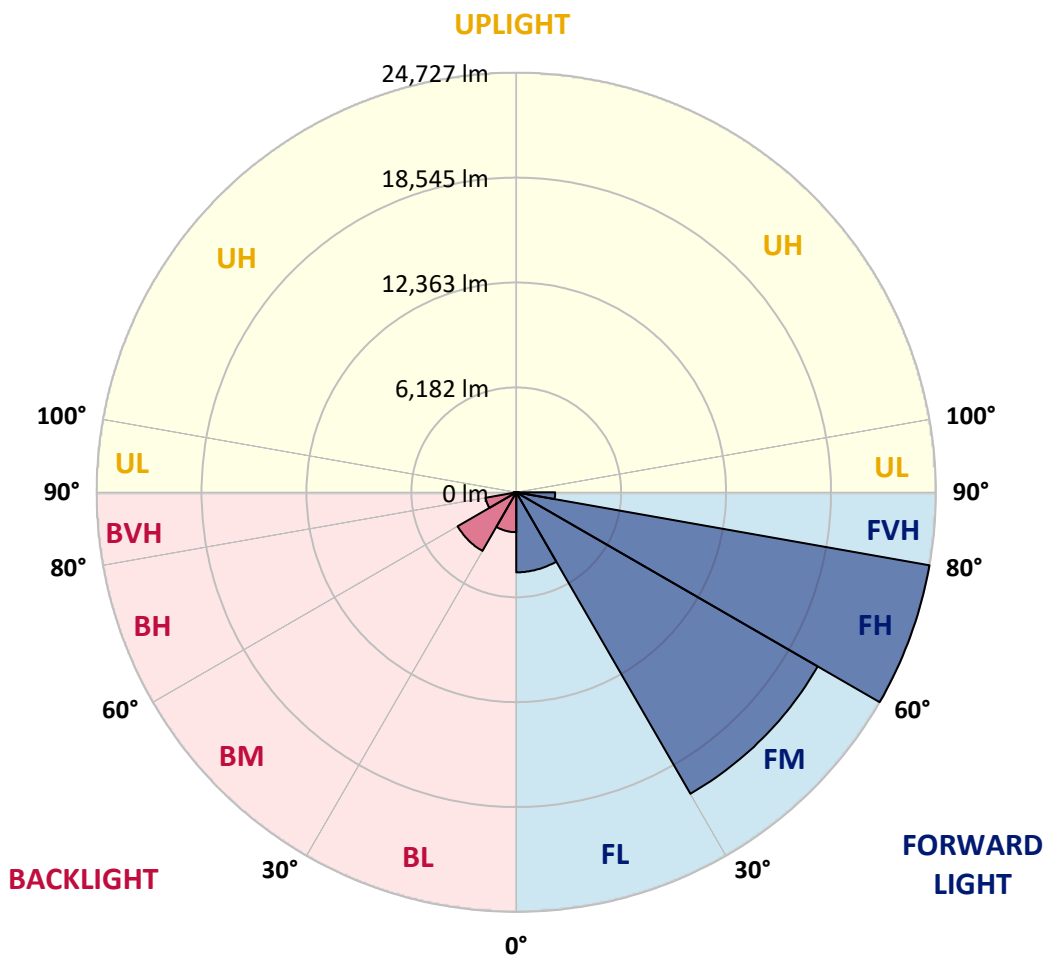


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4714.1	7.8			
FM (30°-60°)	20513.9	33.9			
FH (60°-80°)	24726.9	40.8			G5
FVH (80°-90°)	2292.4	3.8			G5
BL (0°-30°)	2348.0	3.9	B3/2500		
BM (30°-60°)	3989.0	6.6	B3/5000		
BH (60°-80°)	1832.3	3.0	B3/2500		G3/2500
BVH (80°-90°)	166.5	0.3			G2/225
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°	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5
2.5°	11039.4	11041.5	11039.4	11022.3	10981.8	10947.6	10919.9	10879.4	10789.7	10721.4	10619.0
5°	11144.0	11131.2	11122.6	11090.6	11026.6	10988.2	10934.8	10858.0	10710.8	10574.2	10407.7
7.5°	11094.9	11080.0	11060.8	11022.3	10949.8	10917.8	10843.1	10742.8	10565.7	10386.4	10147.4
10°	10943.4	10939.1	10930.6	10922.0	10860.2	10834.5	10766.3	10659.6	10484.6	10266.9	9987.3
12.5°	10774.8	10785.5	10819.6	10864.4	10836.7	10823.9	10781.2	10708.6	10529.4	10294.6	9957.5
15°	10668.1	10698.0	10789.7	10907.1	10930.6	10926.3	10915.6	10868.7	10678.8	10418.4	10025.7
17.5°	10631.8	10680.9	10855.9	11050.1	11118.4	11133.3	11137.6	11056.5	10845.2	10569.9	10096.2
20°	10698.0	10759.9	11015.9	11282.7	11391.5	11400.1	11380.9	11240.0	11003.1	10700.1	10134.6
22.5°	10898.6	10954.0	11274.2	11575.1	11698.8	11711.6	11654.0	11440.6	11169.6	10853.7	10187.9
25°	11284.8	11353.1	11673.2	11974.1	12038.1	12040.3	11957.1	11692.4	11387.3	11069.3	10303.2
27.5°	11788.5	11856.8	12144.8	12439.3	12405.2	12386.0	12272.9	12008.3	11671.1	11365.9	10508.0
30°	12349.7	12424.4	12697.6	12906.7	12825.6	12787.2	12695.4	12354.0	12065.9	11771.4	10821.7
32.5°	12930.2	12998.5	13237.5	13380.5	13278.0	13261.0	13122.2	12810.7	12580.2	12390.3	11329.6
35°	13525.6	13574.7	13809.4	13890.5	13753.9	13749.6	13711.2	13425.3	13280.2	13369.8	12068.0
37.5°	14133.8	14146.6	14347.2	14351.4	14310.9	14328.0	14368.5	14189.3	14229.8	14509.4	13028.3
40°	14675.8	14710.0	14855.1	14899.9	14970.3	15030.1	15232.8	15115.4	15429.1	15924.2	14223.4
42.5°	15077.0	15143.2	15375.8	15491.0	15719.4	15813.3	16099.2	16208.1	16839.7	17582.4	15644.7
45°	15416.3	15518.8	15892.2	16129.1	16515.4	16679.7	17089.4	17454.3	18433.9	19381.4	17140.6
47.5°	15783.4	15913.6	16380.9	16833.3	17358.3	17544.0	18288.8	18835.1	20134.7	21191.1	18551.2
50°	16323.3	16423.6	16880.3	17590.9	18246.1	18485.1	19515.8	20299.0	21863.3	22915.4	19774.1
52.5°	17076.6	17038.2	17424.5	18421.1	19300.3	19594.8	20826.1	21856.9	23615.3	24475.4	20806.9
55°	17834.2	17770.2	18041.2	19289.6	20529.5	20838.9	22268.8	23421.1	25282.0	25879.6	21598.7
57.5°	18677.2	18555.5	18783.9	20269.2	21929.4	22298.6	23884.2	25083.6	26921.0	27014.9	22102.3
60°	19545.7	19381.4	19637.5	21483.4	23707.1	24142.4	25775.0	26705.4	28466.0	27924.0	22264.5
62.5°	20305.4	20190.2	20585.0	22838.5	25711.0	26189.0	27631.6	28429.7	29989.7	28301.7	21679.8
65°	20969.1	20988.3	21671.2	24362.3	27945.3	28455.3	29761.4	30555.2	31189.1	28077.6	20311.8
67.5°	21760.9	21869.7	23034.9	26368.3	30758.0	31317.1	32860.0	32872.8	31859.1	26763.1	17618.7
70°	22915.4	23139.4	24910.7	29151.0	34757.2	35525.4	36716.2	34234.3	30918.0	23199.2	13862.8
72.5°	23939.7	24358.0	26906.0	32335.0	39631.3	40213.9	38971.9	33449.0	26985.0	17386.1	8636.5
74°	23523.6	24042.1	27268.8	33903.6	41466.6	41746.2	38210.1	31157.0	22499.2	12040.3	5019.3
75°	22627.3	23190.7	26739.6	33888.6	41234.0	41078.2	36370.5	28538.6	18529.9	8211.8	3339.8
77.5°	18261.0	18856.4	22531.2	29044.3	33809.7	33662.4	27938.9	19144.5	8115.8	2693.2	1696.6
80°	10616.9	11071.4	13986.5	18444.5	22798.0	23064.8	18374.1	9473.0	3192.5	1513.0	1150.2
82.5°	4716.2	5029.9	6756.4	9415.4	13758.2	14101.8	9622.4	4963.8	1971.9	919.8	691.4
85°	3094.4	3327.0	4101.6	4483.6	6551.5	6786.3	4709.8	3864.8	1301.8	505.8	507.9
87.5°	2225.8	2449.9	3047.4	2661.2	3006.9	2846.8	2563.0	3576.7	522.8	288.1	170.7
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°	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5	10674.5
2.5°	10574.2	10540.0	10463.2	10318.1	10237.0	10168.7	10055.6	9989.5	9959.6	9957.5	9970.3
5°	10311.7	10232.7	10034.3	9791.0	9596.8	9419.7	9199.9	9067.6	8973.7	8918.2	8933.1
7.5°	10006.5	9882.8	9571.2	9182.8	8871.2	8527.6	8188.3	7985.6	7827.7	7710.3	7731.6
10°	9797.4	9626.7	9172.1	8613.0	8094.4	7595.1	7127.7	6848.1	6626.2	6455.5	6468.3
12.5°	9727.0	9496.5	8867.0	8120.0	7392.3	6709.4	6099.1	5670.2	5441.8	5247.6	5262.6
15°	9737.6	9428.2	8610.9	7676.2	6760.7	5900.6	5160.1	4658.6	4349.2	4214.7	4216.9
17.5°	9746.2	9349.2	8342.0	7200.3	6135.4	5145.2	4340.6	3832.7	3540.4	3416.6	3418.7
20°	9718.4	9221.2	8009.1	6654.0	5482.4	4451.6	3672.7	3241.6	3019.7	2923.6	2923.6
22.5°	9682.2	9069.7	7633.5	6105.5	4837.9	3849.8	3194.7	2866.0	2738.0	2674.0	2671.8
25°	9699.2	8956.6	7249.3	5542.1	4244.6	3369.7	2876.7	2659.0	2573.7	2533.1	2531.0
27.5°	9791.0	8903.2	6895.1	4980.9	3726.0	3009.0	2663.3	2509.6	2454.2	2428.5	2428.5
30°	9957.5	8903.2	6525.9	4502.8	3295.0	2742.2	2499.0	2394.4	2356.0	2338.9	2338.9
32.5°	10247.7	8952.3	6169.5	4029.1	2951.4	2533.1	2362.4	2292.0	2262.1	2253.6	2253.6
35°	10747.0	9118.8	5821.7	3580.9	2674.0	2362.4	2232.2	2191.7	2170.3	2168.2	2174.6
37.5°	11449.1	9458.1	5495.2	3250.1	2477.6	2223.7	2123.4	2091.4	2078.6	2089.2	2097.8
40°	12332.6	9919.0	5198.5	2951.4	2328.2	2112.7	2023.1	2001.7	1995.3	2010.3	2023.1
42.5°	13399.7	10542.2	4955.3	2735.8	2213.0	2018.8	1937.7	1912.1	1905.7	1922.8	1939.8
45°	14554.2	11212.3	4784.5	2575.8	2123.4	1948.4	1863.0	1835.3	1822.5	1831.0	1850.2
47.5°	15604.1	11846.1	4716.2	2462.7	2038.0	1888.6	1796.9	1762.7	1741.4	1737.1	1752.1
50°	16489.8	12317.7	4748.2	2394.4	1969.7	1822.5	1732.8	1694.4	1662.4	1643.2	1653.9
52.5°	17134.2	12614.3	4778.1	2364.5	1916.4	1749.9	1662.4	1626.1	1583.5	1551.5	1551.5
55°	17601.6	12682.6	4712.0	2341.0	1875.8	1671.0	1583.5	1549.3	1506.6	1470.4	1466.1
57.5°	17785.1	12490.6	4466.6	2306.9	1848.1	1596.3	1500.2	1474.6	1438.3	1395.7	1393.5
60°	17537.6	11897.3	3992.8	2234.3	1811.8	1534.4	1417.0	1399.9	1382.9	1342.3	1340.2
62.5°	16543.1	10595.5	3380.3	2087.1	1739.2	1468.2	1340.2	1348.7	1350.9	1323.1	1318.8
65°	14739.8	8807.2	2782.8	1895.0	1630.4	1389.3	1261.2	1301.8	1325.2	1321.0	1314.6
67.5°	12119.2	6854.6	2358.1	1692.3	1487.4	1280.4	1175.9	1222.8	1242.0	1257.0	1252.7
70°	8995.0	4833.6	1950.5	1478.9	1314.6	1152.4	1064.9	1088.4	1075.6	1092.6	1099.0
72.5°	5015.0	2900.2	1589.9	1265.5	1135.3	1003.0	941.1	936.8	909.1	909.1	909.1
74°	3009.0	2127.6	1397.8	1133.2	1026.5	904.8	851.5	832.3	806.7	808.8	806.7
75°	2420.0	1828.9	1282.6	1045.7	949.6	847.2	793.9	768.3	749.0	749.0	746.9
77.5°	1528.0	1389.3	1032.9	832.3	759.7	697.8	661.6	627.4	627.4	625.3	623.1
80°	1154.5	1105.4	804.5	629.5	582.6	535.6	512.2	497.2	497.2	503.6	501.5
82.5°	791.7	832.3	565.5	439.6	416.1	382.0	377.7	379.9	373.5	364.9	362.8
85°	578.3	625.3	382.0	277.4	254.0	232.6	249.7	258.2	247.5	228.3	219.8
87.5°	221.9	409.7	204.9	115.2	106.7	91.8	106.7	111.0	119.5	93.9	96.0
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)