

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: P319731

Luminaire Tested: **GAN-SA7C-750-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319731
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50033 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

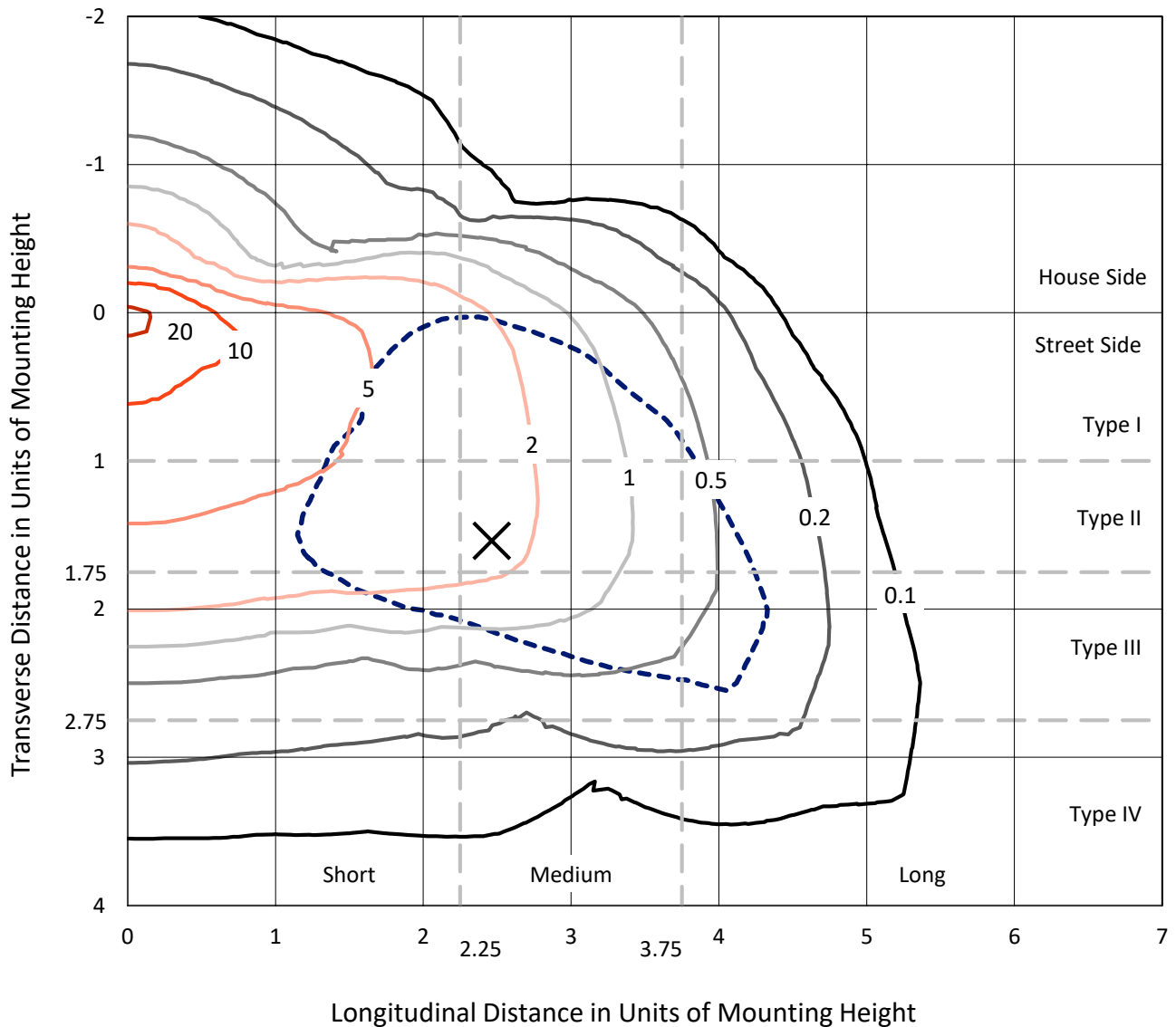
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

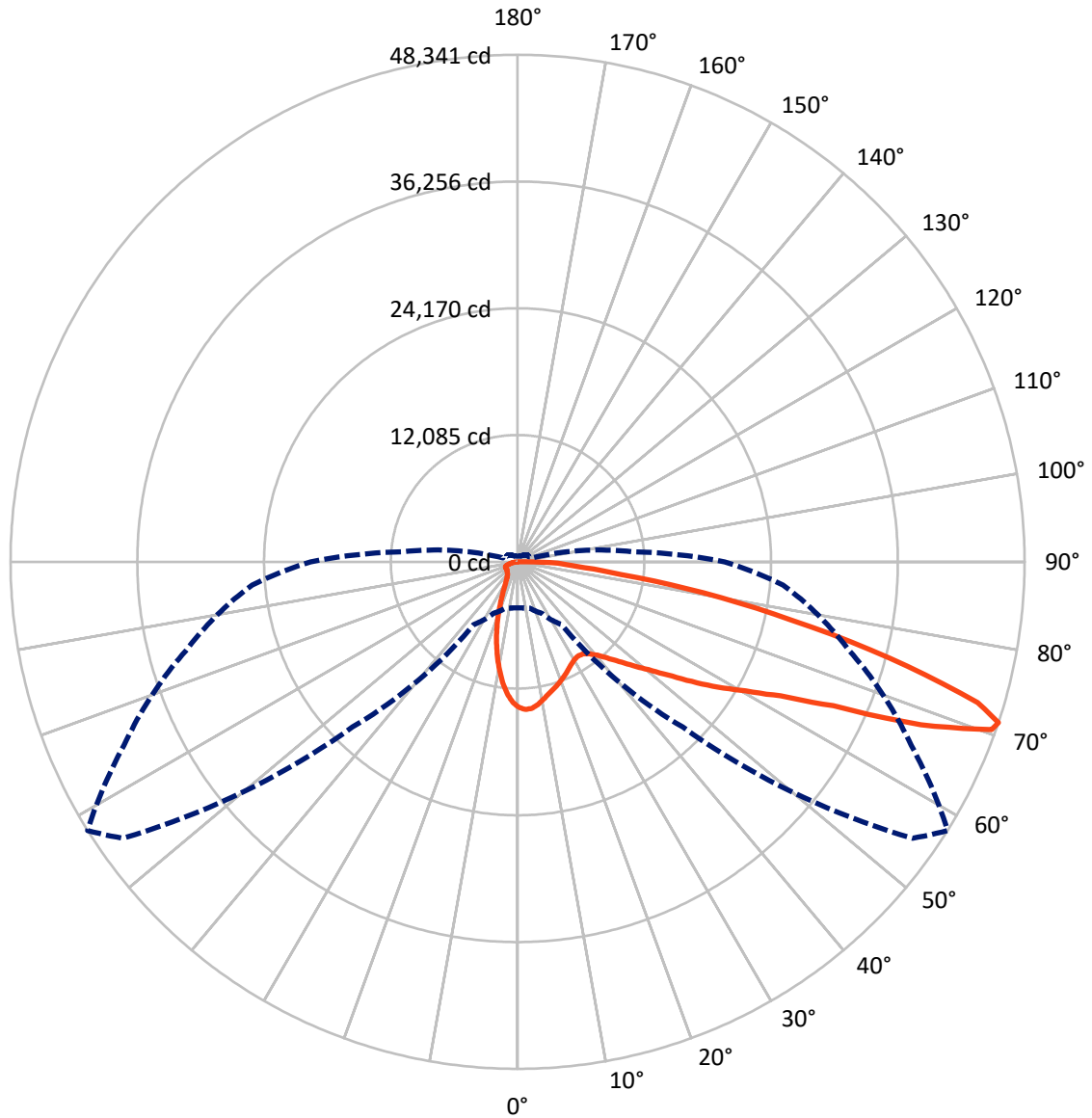
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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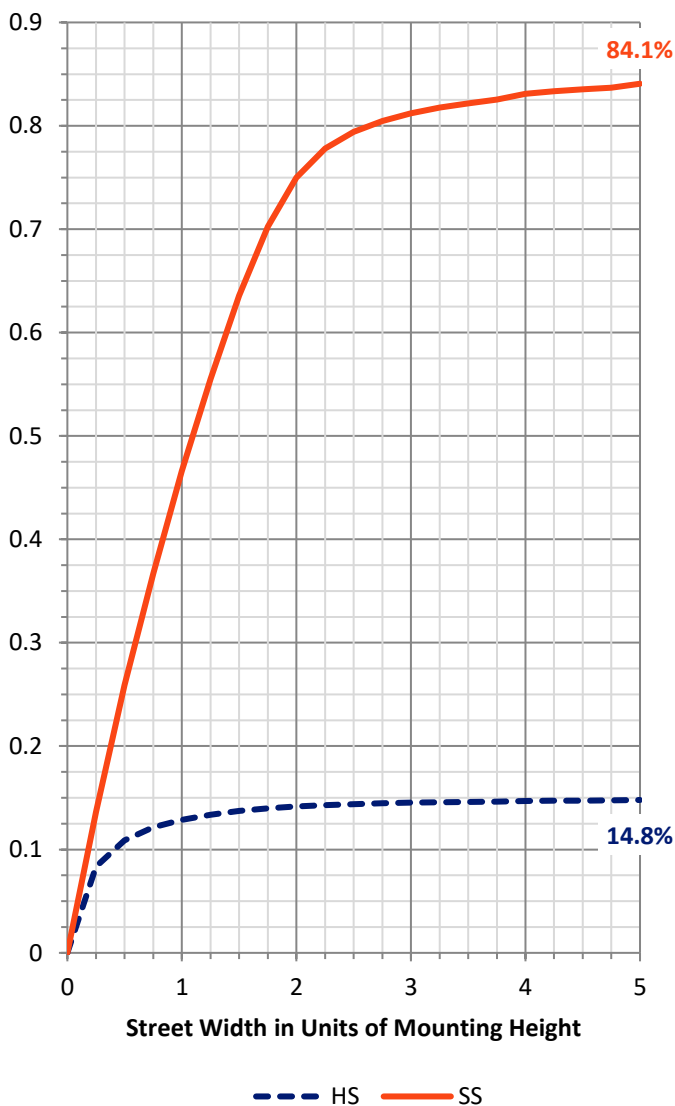
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7480.3	0.0	7480.3
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	42552.7	0.0	42552.7
	% Fixture	85.0	0.0	85.0
Total	Lumens	50033.0	0.0	50033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1195.9	2.4
10°-20°	2659.3	5.3
20°-30°	3379.7	6.8
30°-40°	4305.0	8.6
40°-50°	6104.7	12.2
50°-60°	9447.3	18.9
60°-70°	12861.2	25.7
70°-80°	8579.9	17.1
80°-90°	1500.1	3.0
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°	50033.0	100.0
0°-180°	50033.0	100.0

Coefficient of Utilization

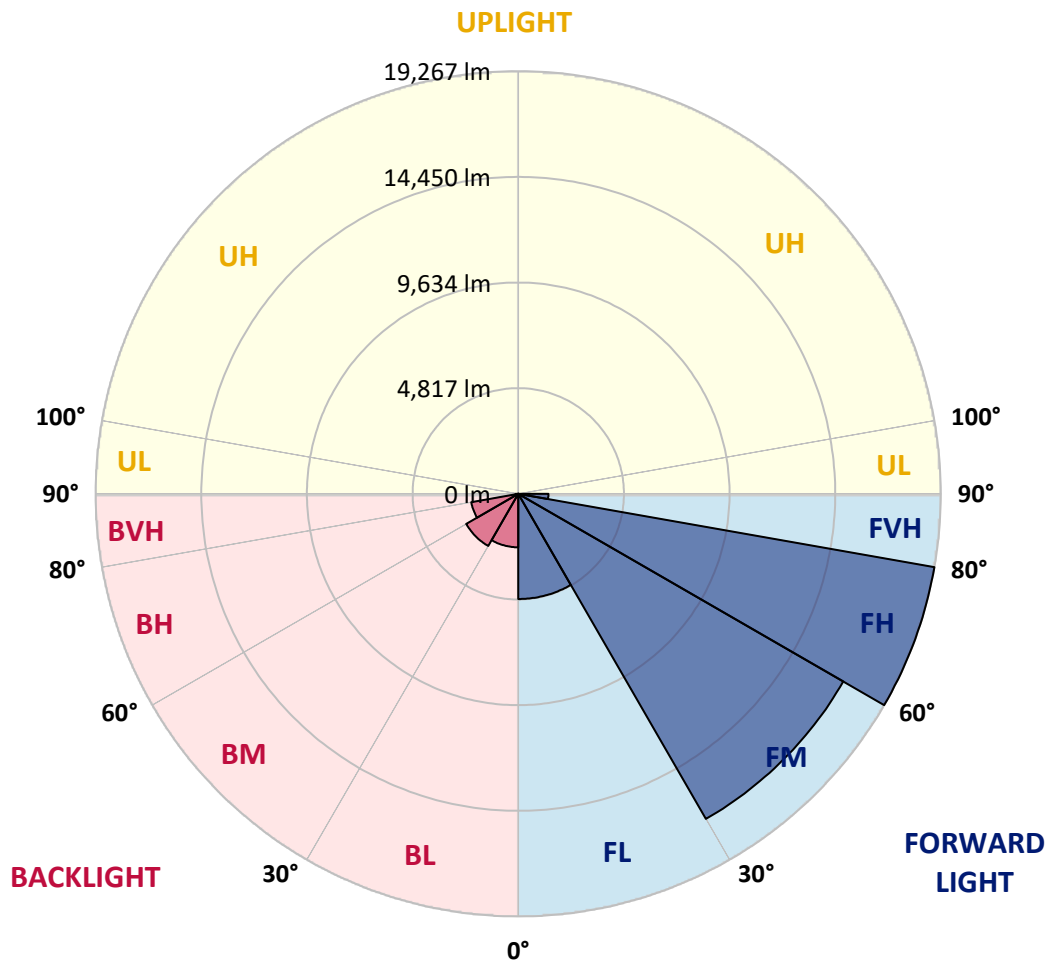


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4796.5	9.6			
FM (30°-60°)	17113.7	34.2			
FH (60°-80°)	19267.1	38.5			G5
FVH (80°-90°)	1375.4	2.7			G5
BL (0°-30°)	2438.3	4.9	B3/2500		
BM (30°-60°)	2743.2	5.5	B3/5000		
BH (60°-80°)	2174.1	4.3	B3/2500		G3/2500
BVH (80°-90°)	124.6	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5
2.5°	14230.2	14211.1	14218.0	14204.1	14171.0	14137.9	14089.1	14097.8	14029.8	13928.7	13803.2
5°	13961.8	13954.9	14007.1	14036.8	14061.2	14042.0	14028.1	14045.5	13946.1	13806.7	13588.9
7.5°	13398.9	13322.2	13388.4	13487.8	13581.9	13653.3	13747.5	13759.7	13696.9	13550.5	13264.7
10°	12598.9	12525.7	12623.3	12778.4	12966.7	13137.5	13327.4	13362.3	13374.5	13242.0	12895.2
12.5°	11769.3	11713.6	11811.2	12029.0	12341.0	12604.2	12907.4	12959.7	13067.8	12978.9	12553.6
15°	11026.9	11006.0	11124.5	11338.9	11697.9	12100.5	12537.9	12633.8	12816.8	12787.2	12287.0
17.5°	10385.5	10380.3	10470.9	10695.8	11093.1	11602.0	12170.2	12332.3	12604.2	12639.0	12067.4
20°	9908.0	9897.5	9960.3	10125.9	10535.4	11112.3	11772.8	11995.9	12388.0	12510.0	11840.8
22.5°	9651.8	9650.1	9651.8	9730.2	10064.9	10601.6	11385.9	11657.8	12177.2	12407.2	11589.8
25°	9608.2	9603.0	9564.7	9555.9	9745.9	10174.7	11002.5	11302.3	11976.7	12335.8	11351.1
27.5°	9721.5	9728.5	9677.9	9596.0	9634.4	9894.1	10669.6	10990.3	11816.4	12321.8	11185.5
30°	9956.8	9953.3	9909.7	9824.3	9749.4	9789.5	10432.6	10753.3	11708.3	12382.8	11072.2
32.5°	10216.5	10235.7	10226.9	10179.9	10068.3	9908.0	10361.1	10674.8	11677.0	12529.2	11023.4
35°	10528.4	10549.4	10612.1	10648.7	10518.0	10260.1	10514.5	10786.4	11767.6	12804.6	11101.8
37.5°	10824.7	10878.8	11054.8	11209.9	11098.4	10810.8	10922.3	11115.8	12048.2	13238.6	11312.7
40°	11166.3	11213.4	11500.9	11830.3	11812.9	11514.9	11579.4	11708.3	12543.2	13860.7	11694.4
42.5°	11502.7	11596.8	12013.3	12480.4	12614.6	12351.5	12454.3	12522.2	13240.3	14685.1	12360.2
45°	11950.6	12051.7	12630.3	13193.2	13506.9	13358.8	13522.6	13548.8	14116.9	15807.5	13327.4
47.5°	12628.6	12743.6	13418.1	14008.9	14488.2	14503.8	14774.0	14763.5	15211.4	17092.0	14545.7
50°	13684.7	13850.3	14402.8	14955.2	15537.3	15861.5	16222.3	16171.7	16523.8	18460.1	15948.7
52.5°	15068.5	15145.2	15554.8	15962.6	16685.9	17412.6	17930.3	17884.9	18012.2	19866.5	17541.6
55°	16502.9	16560.4	16729.4	16952.5	17925.0	19110.2	20204.7	20133.2	19810.8	21327.0	19115.4
57.5°	17792.6	17909.3	18026.1	18118.5	19172.9	20884.4	22531.3	22536.6	21762.7	22902.6	20741.4
60°	17993.0	18095.8	18867.9	19596.4	21307.9	23251.1	25021.8	24969.6	23782.7	24612.3	22554.0
62.5°	15905.1	16136.9	17426.6	19364.6	23364.4	27580.3	28199.0	28134.5	26198.3	26719.4	24664.6
65°	11398.1	11661.3	13217.6	16129.9	22367.5	32350.4	33932.9	33065.0	29492.2	29310.9	27135.9
67.5°	6575.7	6638.4	7312.9	9651.8	17031.0	32599.7	42680.2	41465.5	34607.4	32251.1	28345.4
70°	4862.5	4860.8	5021.1	5939.6	9216.1	26606.1	46840.4	47929.6	39992.8	33218.4	26635.7
71°	4397.2	4402.4	4581.9	5406.3	7299.0	22269.9	45956.7	48340.9	41411.4	32740.8	25398.3
72.5°	3761.0	3778.5	4027.7	4848.6	6140.0	15357.8	42150.4	45873.1	42084.2	31562.7	23462.0
75°	2853.0	2893.1	3238.2	4086.9	5611.9	7788.7	30935.3	36630.8	37385.5	27850.5	17433.5
77.5°	2035.6	2080.9	2471.3	3436.9	5334.8	5869.9	20717.0	26719.4	27512.3	17848.3	7863.7
80°	1286.2	1340.2	1634.8	2734.5	5012.4	5573.6	13019.0	17959.9	15002.3	5711.3	2000.8
82.5°	754.6	796.5	1014.3	1786.4	4093.9	5367.9	7659.7	9955.1	5838.5	1725.4	909.8
85°	437.5	456.6	632.6	1138.1	2973.3	5066.4	5627.6	5564.9	2534.1	843.5	430.5
87.5°	203.9	226.6	374.7	594.3	1650.5	3672.1	4447.7	3842.9	1575.5	395.6	202.2
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°	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5	13862.5
2.5°	13742.2	13712.6	13588.9	13479.1	13364.0	13214.2	13048.6	13027.7	12926.6	12945.8	12910.9
5°	13470.3	13395.4	13097.4	12827.2	12508.3	12222.5	11912.3	11769.3	11563.7	11549.7	11497.5
7.5°	13081.7	12942.3	12480.4	11968.0	11455.6	10967.6	10484.9	10167.7	9843.5	9705.8	9693.6
10°	12644.2	12407.2	11727.5	10969.4	10230.4	9517.6	8827.4	8316.8	7856.7	7638.8	7630.1
12.5°	12229.5	11879.1	10946.7	9915.0	8904.1	7980.4	7034.1	6363.1	5786.2	5592.7	5510.8
15°	11877.4	11384.2	10186.9	8867.5	7640.6	6357.9	5280.8	4574.9	4041.6	3856.9	3822.0
17.5°	11535.8	10901.4	9407.8	7809.6	6326.5	4916.5	3837.7	3313.1	3029.0	2954.1	2952.4
20°	11196.0	10404.7	8593.9	6727.3	5056.0	3677.4	2950.6	2715.3	2619.5	2610.8	2596.8
22.5°	10810.8	9878.4	7738.2	5641.5	3945.8	2891.4	2507.9	2413.8	2401.6	2433.0	2433.0
25°	10450.0	9355.5	6870.2	4578.4	3069.1	2412.1	2239.5	2220.4	2253.5	2309.3	2314.5
27.5°	10113.7	8851.8	6023.2	3633.8	2459.1	2124.5	2053.1	2075.7	2135.0	2199.5	2201.2
30°	9836.5	8376.1	5200.6	2863.5	2077.5	1910.1	1897.9	1943.3	2007.7	2058.3	2070.5
32.5°	9622.2	7970.0	4405.9	2302.3	1828.2	1749.8	1760.3	1798.6	1838.7	1866.6	1885.7
35°	9522.8	7621.4	3672.1	1941.5	1669.6	1626.1	1640.0	1660.9	1678.3	1699.3	1714.9
37.5°	9540.3	7351.3	3016.8	1716.7	1563.3	1540.7	1540.7	1540.7	1540.7	1551.1	1552.9
40°	9702.3	7196.2	2483.5	1573.8	1491.9	1467.5	1448.3	1430.9	1416.9	1423.9	1420.4
42.5°	10117.1	7182.2	2093.1	1483.2	1434.4	1394.3	1355.9	1331.5	1314.1	1321.1	1324.6
45°	10821.2	7356.5	1830.0	1418.7	1380.3	1319.3	1270.5	1244.4	1232.2	1254.8	1258.3
47.5°	11732.7	7736.4	1669.6	1371.6	1329.8	1249.6	1197.3	1172.9	1176.4	1209.5	1218.2
50°	12907.4	8353.4	1592.9	1342.0	1294.9	1190.4	1136.3	1115.4	1125.9	1172.9	1183.4
52.5°	14197.1	9242.2	1601.7	1333.3	1272.3	1146.8	1089.3	1064.9	1082.3	1125.9	1134.6
55°	15685.5	10310.6	1746.3	1345.5	1239.2	1118.9	1050.9	1009.1	1023.0	1063.1	1070.1
57.5°	17339.4	11534.1	2037.4	1342.0	1197.3	1092.8	1010.8	948.1	958.6	983.0	989.9
60°	19061.4	13012.0	2488.8	1352.4	1178.2	1061.4	956.8	878.4	874.9	895.8	899.3
62.5°	21128.4	14721.7	3004.6	1359.4	1190.4	1021.3	885.4	808.7	798.2	803.4	806.9
65°	23258.1	15959.1	2811.2	1331.5	1228.7	988.2	822.6	740.7	721.5	718.0	719.8
67.5°	23324.3	14632.8	1971.1	1275.8	1244.4	970.8	775.6	683.2	651.8	639.6	637.9
70°	20917.5	11887.9	1535.4	1216.5	1181.6	942.9	732.0	636.1	589.1	569.9	568.2
71°	19742.8	10943.2	1455.3	1186.9	1134.6	915.0	712.8	615.2	566.4	545.5	542.0
72.5°	17900.6	9810.4	1357.7	1139.8	1044.0	843.5	676.2	585.6	535.0	510.6	505.4
75°	12846.4	6415.4	1166.0	1016.1	864.4	672.7	592.6	526.3	482.8	453.1	449.7
77.5°	4949.6	2553.2	881.9	845.3	662.3	526.3	488.0	454.9	423.5	393.9	392.1
80°	1530.2	1141.6	643.1	636.1	479.3	392.1	379.9	371.2	359.0	327.7	320.7
82.5°	817.4	655.3	442.7	411.3	313.7	261.4	275.4	278.9	280.6	247.5	244.0
85°	390.4	346.8	249.2	233.5	183.0	146.4	169.1	183.0	184.7	151.6	141.2
87.5°	186.5	181.3	116.8	88.9	68.0	48.8	59.3	73.2	80.2	57.5	50.5
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)