

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: P319661

Luminaire Tested: **GAN-SA7D-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319661
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-SA7D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA 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: 49984 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

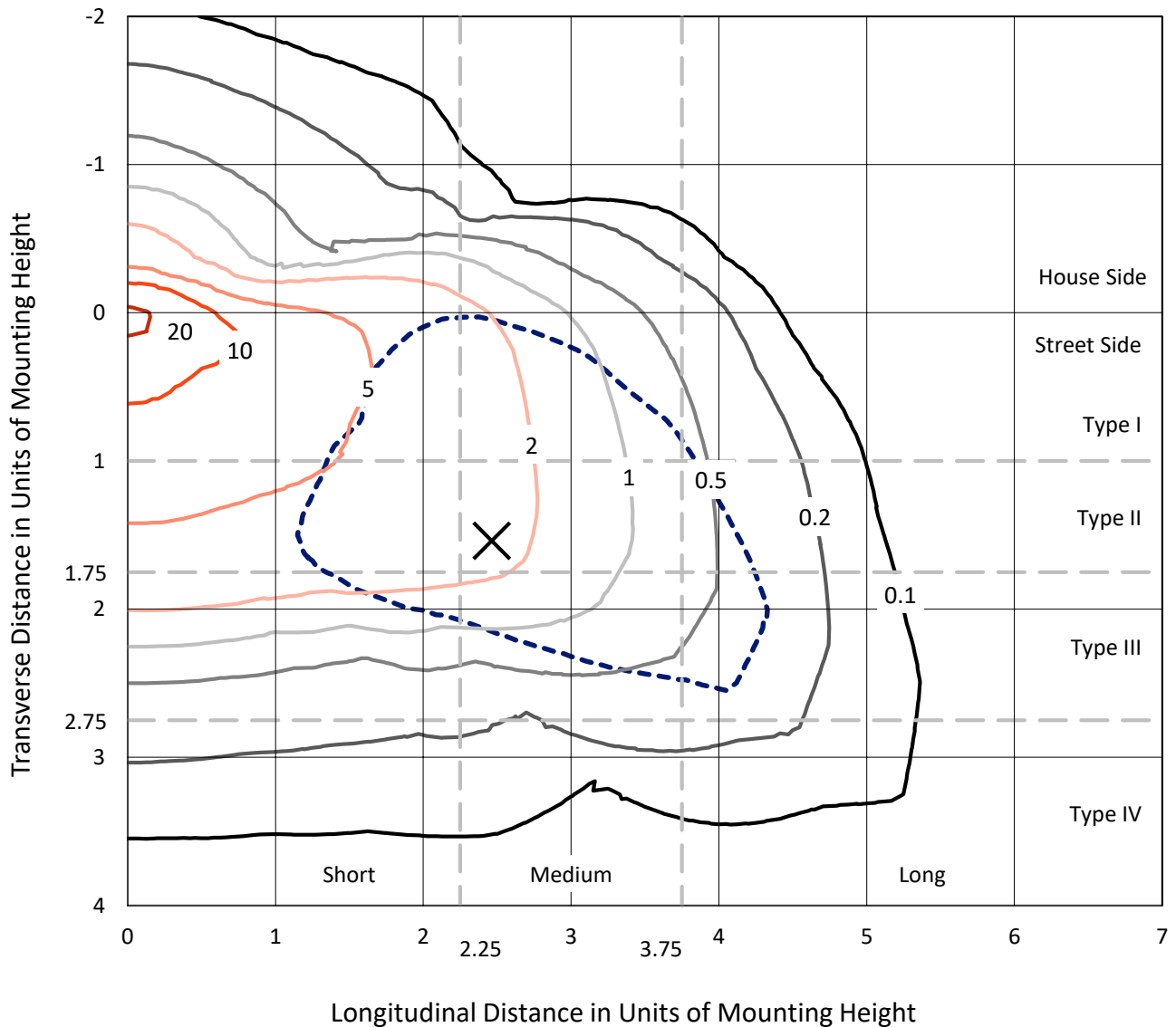
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

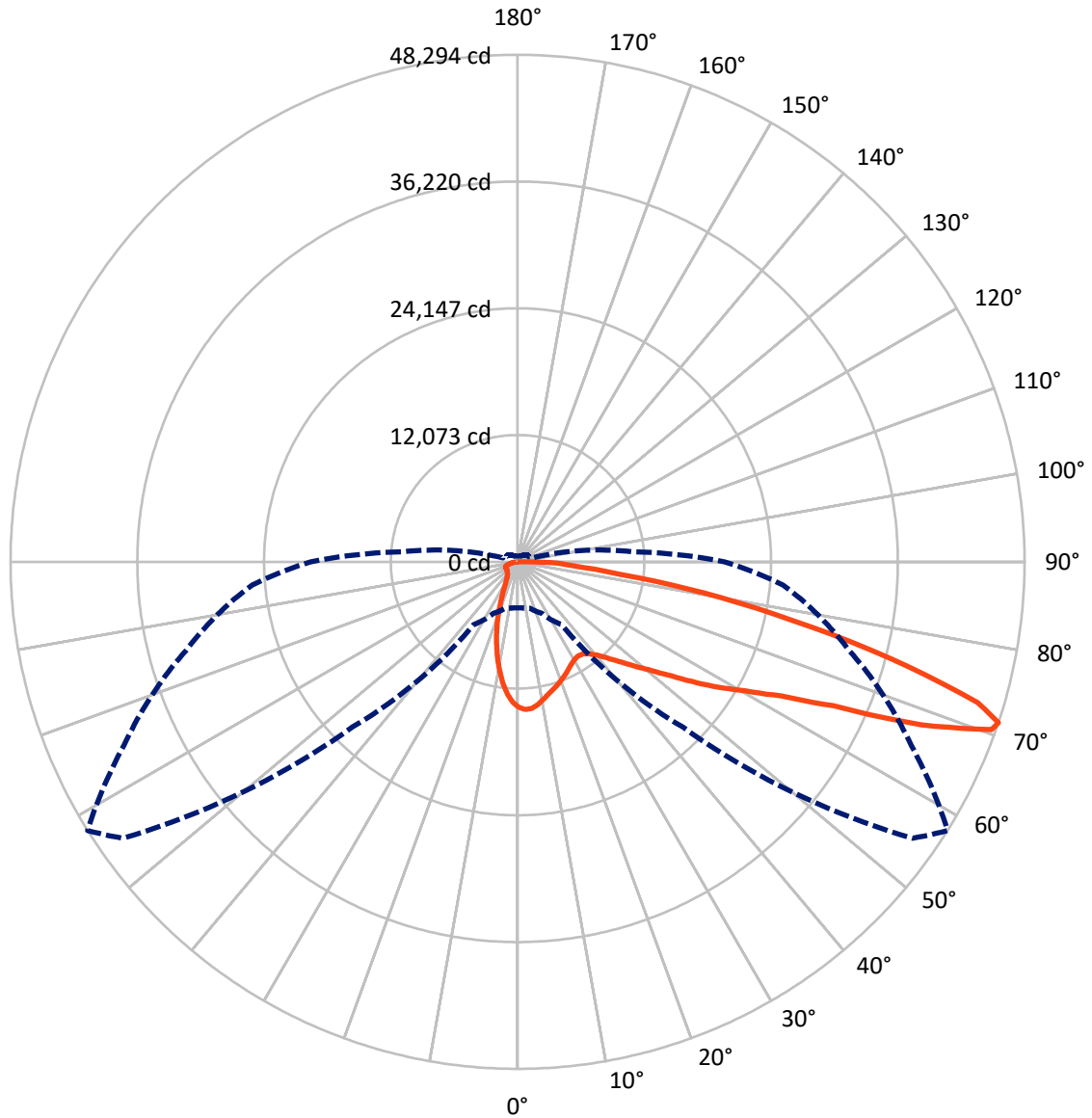
✕ Max cd
 - - - 1/2 Max cd



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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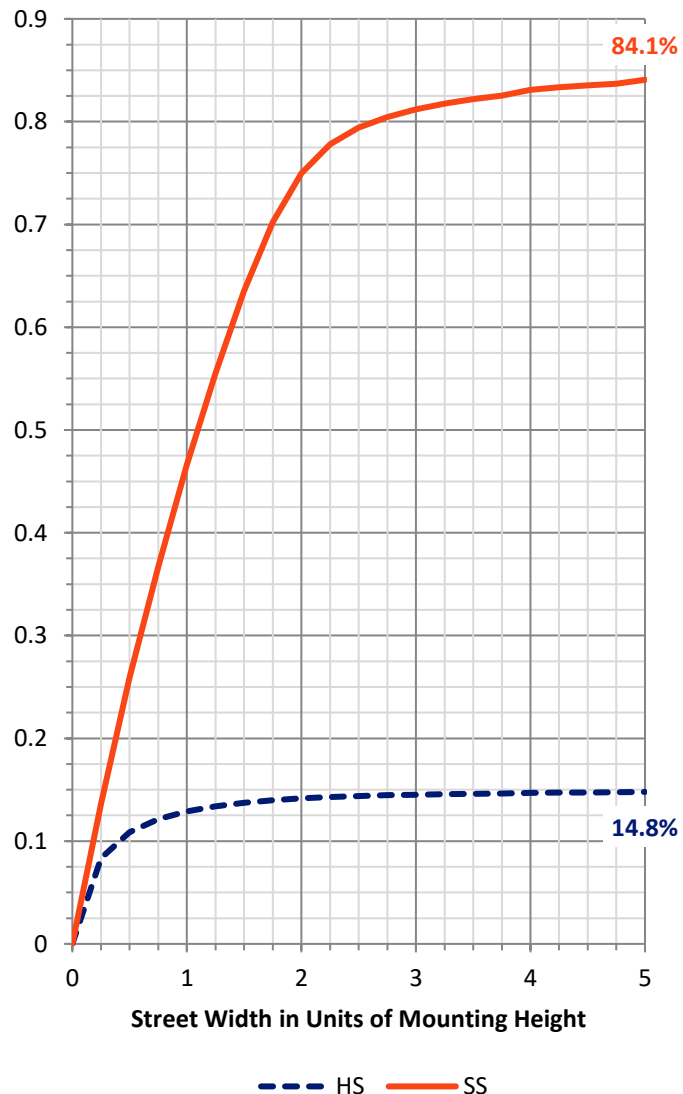
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7473.0	0.0	7473.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	42511.1	0.0	42511.1
	% Fixture	85.0	0.0	85.0
Total	Lumens	49984.0	0.0	49984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1194.7	2.4
10°-20°	2656.7	5.3
20°-30°	3376.3	6.8
30°-40°	4300.8	8.6
40°-50°	6098.7	12.2
50°-60°	9438.0	18.9
60°-70°	12848.6	25.7
70°-80°	8571.5	17.1
80°-90°	1498.6	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°	49984.0	100.0
0°-180°	49984.0	100.0

Coefficient of Utilization

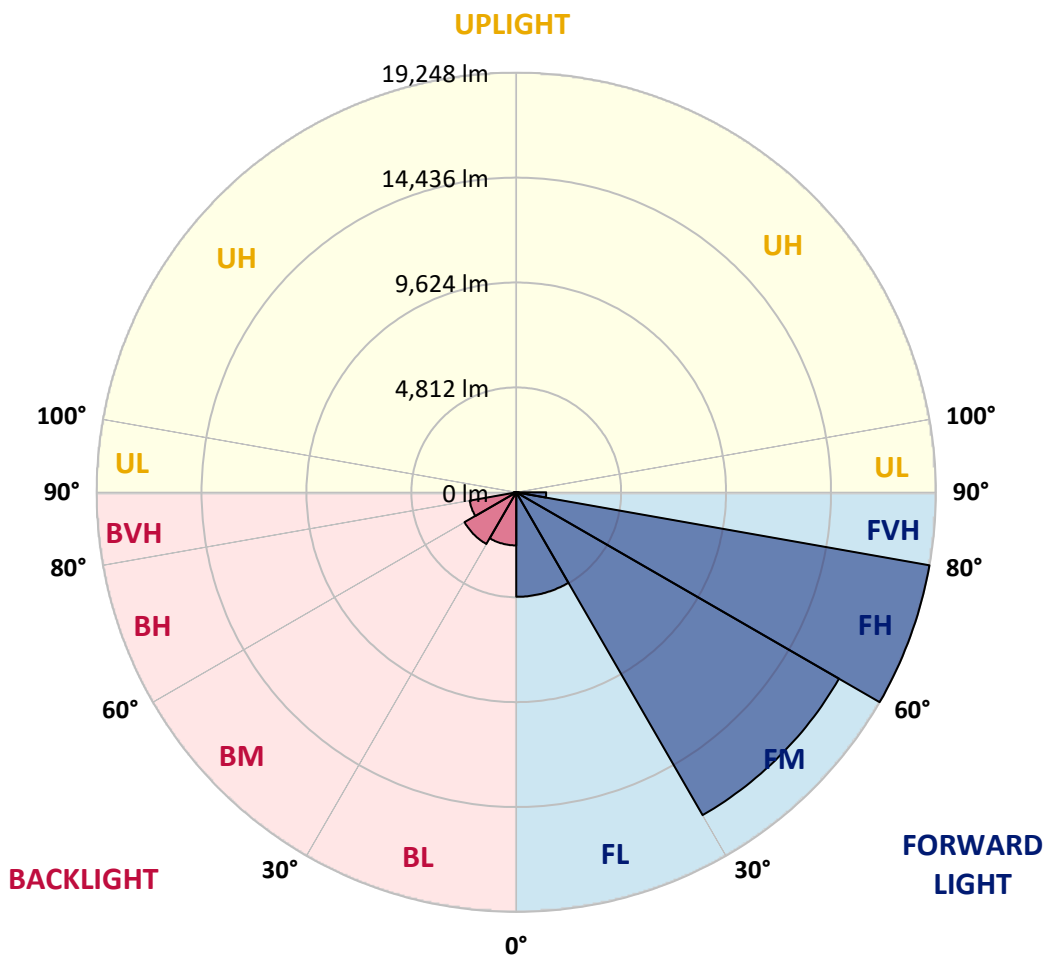


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4791.8	9.6			
FM (30°-60°)	17096.9	34.2			
FH (60°-80°)	19248.2	38.5			G5
FVH (80°-90°)	1374.1	2.7			G5
BL (0°-30°)	2436.0	4.9	B3/2500		
BM (30°-60°)	2740.5	5.5	B3/5000		
BH (60°-80°)	2171.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	124.5	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°	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9
2.5°	14216.3	14197.1	14204.1	14190.2	14157.1	14124.0	14075.3	14084.0	14016.1	13915.1	13789.7
5°	13948.2	13941.2	13993.4	14023.0	14047.4	14028.2	14014.3	14031.7	13932.5	13793.2	13575.6
7.5°	13385.8	13309.2	13375.3	13474.6	13568.6	13640.0	13734.0	13746.2	13683.5	13537.2	13251.7
10°	12586.6	12513.5	12611.0	12765.9	12954.0	13124.6	13314.4	13349.2	13361.4	13229.1	12882.6
12.5°	11757.8	11702.1	11799.6	12017.2	12328.9	12591.8	12894.8	12947.0	13055.0	12966.2	12541.3
15°	11016.1	10995.2	11113.6	11327.8	11686.4	12088.6	12525.7	12621.4	12804.2	12774.6	12274.9
17.5°	10375.4	10370.1	10460.7	10685.3	11082.3	11590.7	12158.3	12320.2	12591.8	12626.6	12055.6
20°	9898.3	9887.8	9950.5	10115.9	10525.1	11101.4	11761.3	11984.2	12375.9	12497.8	11829.2
22.5°	9642.4	9640.6	9642.4	9720.7	10055.0	10591.3	11374.8	11646.4	12165.2	12395.1	11578.5
25°	9598.8	9593.6	9555.3	9546.6	9736.4	10164.7	10991.7	11291.2	11965.0	12323.7	11339.9
27.5°	9712.0	9719.0	9668.5	9586.6	9624.9	9884.4	10659.2	10979.5	11804.8	12309.8	11174.5
30°	9947.0	9943.6	9900.0	9814.7	9739.9	9779.9	10422.4	10742.7	11696.9	12370.7	11061.4
32.5°	10206.5	10225.6	10216.9	10169.9	10058.5	9898.3	10351.0	10664.4	11665.5	12516.9	11012.6
35°	10518.1	10539.0	10601.7	10638.3	10507.7	10250.0	10504.2	10775.8	11756.1	12792.0	11091.0
37.5°	10814.1	10868.1	11044.0	11198.9	11087.5	10800.2	10911.6	11104.9	12036.4	13225.6	11301.6
40°	11155.4	11202.4	11489.7	11818.8	11801.3	11503.6	11568.0	11696.9	12530.9	13847.2	11682.9
42.5°	11491.4	11585.4	12001.6	12468.2	12602.3	12339.4	12442.1	12510.0	13227.3	14670.7	12348.1
45°	11938.9	12039.9	12617.9	13180.3	13493.7	13345.7	13509.4	13535.5	14103.1	15792.0	13314.4
47.5°	12616.2	12731.1	13404.9	13995.2	14474.0	14489.6	14759.5	14749.1	15196.5	17075.2	14531.4
50°	13671.3	13836.7	14388.7	14940.6	15522.1	15846.0	16206.4	16155.9	16507.6	18442.0	15933.0
52.5°	15053.8	15130.4	15539.5	15947.0	16669.5	17395.6	17912.7	17867.4	17994.5	19847.1	17524.4
55°	16486.7	16544.2	16713.1	16935.9	17907.5	19091.4	20184.9	20113.5	19791.4	21306.1	19096.7
57.5°	17775.1	17891.8	18008.5	18100.7	19154.1	20863.9	22509.3	22514.5	21741.4	22880.1	20721.1
60°	17975.4	18078.1	18849.4	19577.2	21287.0	23228.4	24997.3	24945.1	23759.4	24588.2	22531.9
62.5°	15889.5	16121.1	17409.5	19345.6	23341.5	27553.3	28171.4	28107.0	26172.6	26693.2	24640.4
65°	11387.0	11649.9	13204.7	16114.1	22345.6	32318.8	33899.7	33032.6	29463.3	29282.2	27109.3
67.5°	6569.3	6631.9	7305.8	9642.4	17014.3	32567.7	42638.4	41424.8	34573.5	32219.5	28317.7
70°	4857.7	4856.0	5016.2	5933.8	9207.1	26580.0	46794.5	47882.7	39953.6	33185.8	26609.6
71°	4392.9	4398.1	4577.4	5401.0	7291.8	22248.1	45911.7	48293.6	41370.9	32708.8	25373.4
72.5°	3757.3	3774.8	4023.7	4843.8	6134.0	15342.8	42109.1	45828.2	42042.9	31531.8	23439.0
75°	2850.2	2890.3	3235.0	4082.9	5606.4	7781.1	30905.0	36595.0	37348.9	27823.2	17416.5
77.5°	2033.6	2078.9	2468.9	3433.5	5329.6	5864.1	20696.8	26693.2	27485.4	17830.9	7856.0
80°	1285.0	1338.9	1633.2	2731.8	5007.5	5568.1	13006.2	17942.3	14987.6	5705.7	1998.8
82.5°	753.9	795.7	1013.3	1784.7	4089.9	5362.7	7652.2	9945.3	5832.8	1723.7	908.9
85°	437.0	456.2	632.0	1137.0	2970.4	5061.5	5622.1	5559.4	2531.6	842.7	430.1
87.5°	203.7	226.3	374.3	593.7	1648.8	3668.6	4443.4	3839.2	1574.0	395.2	202.0
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°	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9	13848.9
2.5°	13728.8	13699.2	13575.6	13465.9	13350.9	13201.2	13035.8	13014.9	12913.9	12933.1	12898.3
5°	13457.2	13382.3	13084.6	12814.7	12496.1	12210.5	11900.6	11757.8	11552.4	11538.4	11486.2
7.5°	13068.9	12929.6	12468.2	11956.3	11444.4	10956.9	10474.6	10157.7	9833.9	9696.3	9684.1
10°	12631.9	12395.1	11716.0	10958.6	10220.4	9508.3	8818.8	8308.6	7849.0	7631.4	7622.6
12.5°	12217.5	11867.5	10936.0	9905.3	8895.4	7972.6	7027.2	6356.8	5780.5	5587.3	5505.4
15°	11865.8	11373.0	10176.9	8858.8	7633.1	6351.6	5275.6	4570.5	4037.7	3853.1	3818.3
17.5°	11524.5	10890.7	9398.6	7802.0	6320.3	4911.7	3834.0	3309.9	3026.1	2951.2	2949.5
20°	11185.0	10394.5	8585.5	6720.7	5051.0	3673.8	2947.7	2712.7	2616.9	2608.2	2594.3
22.5°	10800.2	9868.7	7730.6	5636.0	3941.9	2888.5	2505.5	2411.5	2399.3	2430.6	2430.6
25°	10439.8	9346.4	6863.5	4573.9	3066.1	2409.7	2237.3	2218.2	2251.3	2307.0	2312.2
27.5°	10103.7	8843.2	6017.3	3630.2	2456.7	2122.4	2051.0	2073.7	2132.9	2197.3	2199.0
30°	9826.9	8367.8	5195.5	2860.7	2075.4	1908.3	1896.1	1941.4	2005.8	2056.3	2068.5
32.5°	9612.8	7962.2	4401.6	2300.0	1826.4	1748.1	1758.5	1796.8	1836.9	1864.7	1883.9
35°	9513.5	7613.9	3668.6	1939.6	1668.0	1624.5	1638.4	1659.3	1676.7	1697.6	1713.3
37.5°	9530.9	7344.1	3013.9	1715.0	1561.8	1539.2	1539.2	1539.2	1539.2	1549.6	1551.3
40°	9692.8	7189.1	2481.1	1572.2	1490.4	1466.0	1446.9	1429.5	1415.5	1422.5	1419.0
42.5°	10107.2	7175.2	2091.1	1481.7	1432.9	1392.9	1354.6	1330.2	1312.8	1319.8	1323.3
45°	10810.6	7349.3	1828.2	1417.3	1379.0	1318.0	1269.3	1243.2	1231.0	1253.6	1257.1
47.5°	11721.3	7728.9	1668.0	1370.3	1328.5	1248.4	1196.2	1171.8	1175.3	1208.3	1217.0
50°	12894.8	8345.2	1591.4	1340.7	1293.7	1189.2	1135.2	1114.3	1124.8	1171.8	1182.2
52.5°	14183.2	9233.2	1600.1	1332.0	1271.0	1145.7	1088.2	1063.8	1081.2	1124.8	1133.5
55°	15670.1	10300.5	1744.6	1344.1	1237.9	1117.8	1049.9	1008.1	1022.0	1062.1	1069.1
57.5°	17322.5	11522.8	2035.4	1340.7	1196.2	1091.7	1009.9	947.2	957.6	982.0	989.0
60°	19042.7	12999.2	2486.3	1351.1	1177.0	1060.3	955.9	877.5	874.0	894.9	898.4
62.5°	21107.7	14707.3	3001.7	1358.1	1189.2	1020.3	884.5	807.9	797.4	802.7	806.1
65°	23235.3	15943.5	2808.4	1330.2	1227.5	987.2	821.8	740.0	720.8	717.3	719.1
67.5°	23301.5	14618.5	1969.2	1274.5	1243.2	969.8	774.8	682.5	651.2	639.0	637.3
70°	20897.0	11876.2	1533.9	1215.3	1180.5	941.9	731.3	635.5	588.5	569.3	567.6
71°	19723.5	10932.5	1453.8	1185.7	1133.5	914.1	712.1	614.6	565.9	545.0	541.5
72.5°	17883.1	9800.8	1356.3	1138.7	1042.9	842.7	675.6	585.0	534.5	510.1	504.9
75°	12833.8	6409.1	1164.8	1015.1	863.6	672.1	592.0	525.8	482.3	452.7	449.2
77.5°	4944.8	2550.7	881.0	844.4	661.6	525.8	487.5	454.4	423.1	393.5	391.8
80°	1528.7	1140.4	642.5	635.5	478.8	391.8	379.6	370.9	358.7	327.3	320.4
82.5°	816.6	654.7	442.2	410.9	313.4	261.2	275.1	278.6	280.3	247.2	243.8
85°	390.0	346.5	249.0	233.3	182.8	146.3	168.9	182.8	184.6	151.5	141.0
87.5°	186.3	181.1	116.7	88.8	67.9	48.8	59.2	73.1	80.1	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)