

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: P319692

Luminaire Tested: **GAN-SA8C-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319692
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-SA8C-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 56690 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

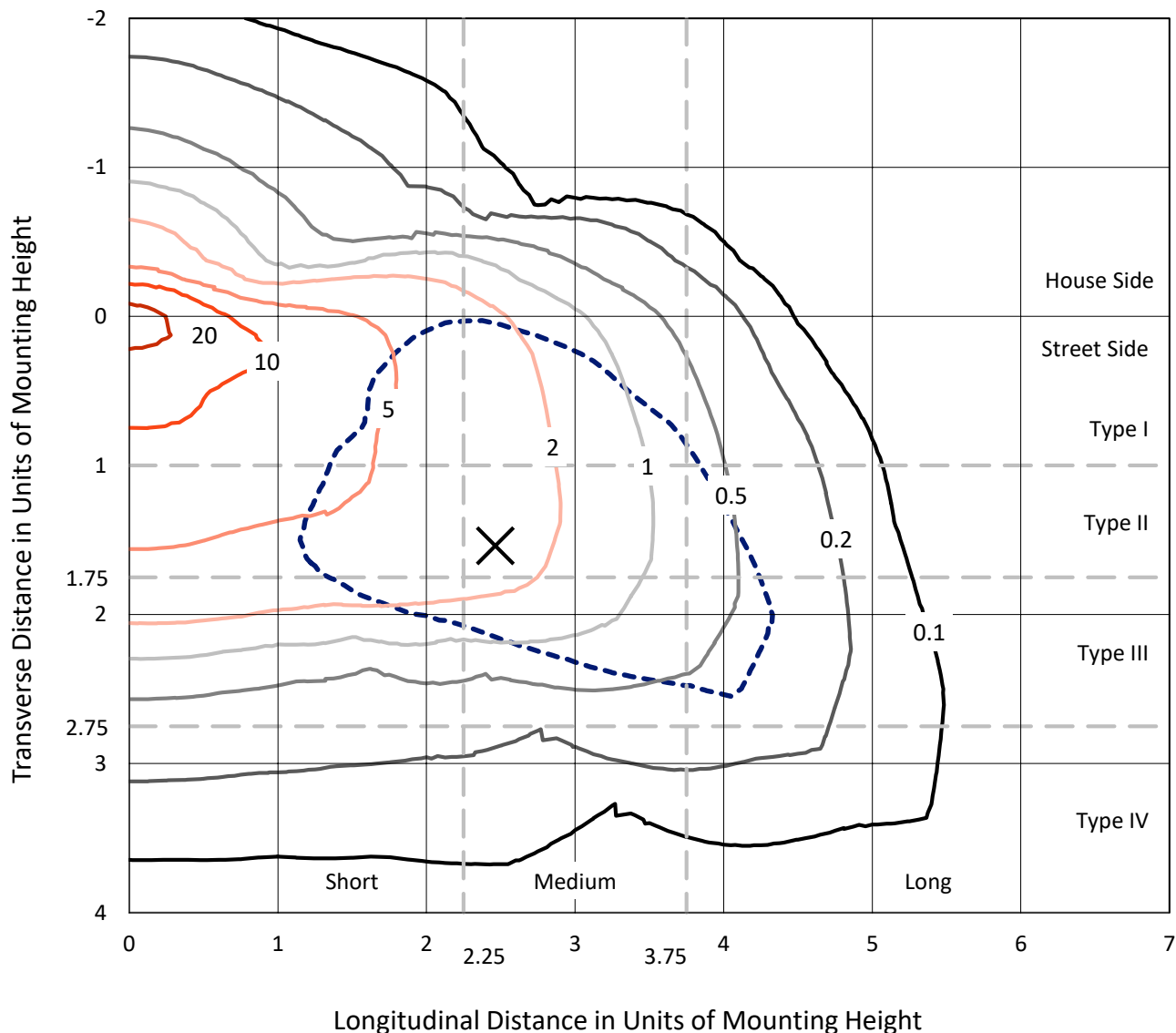
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

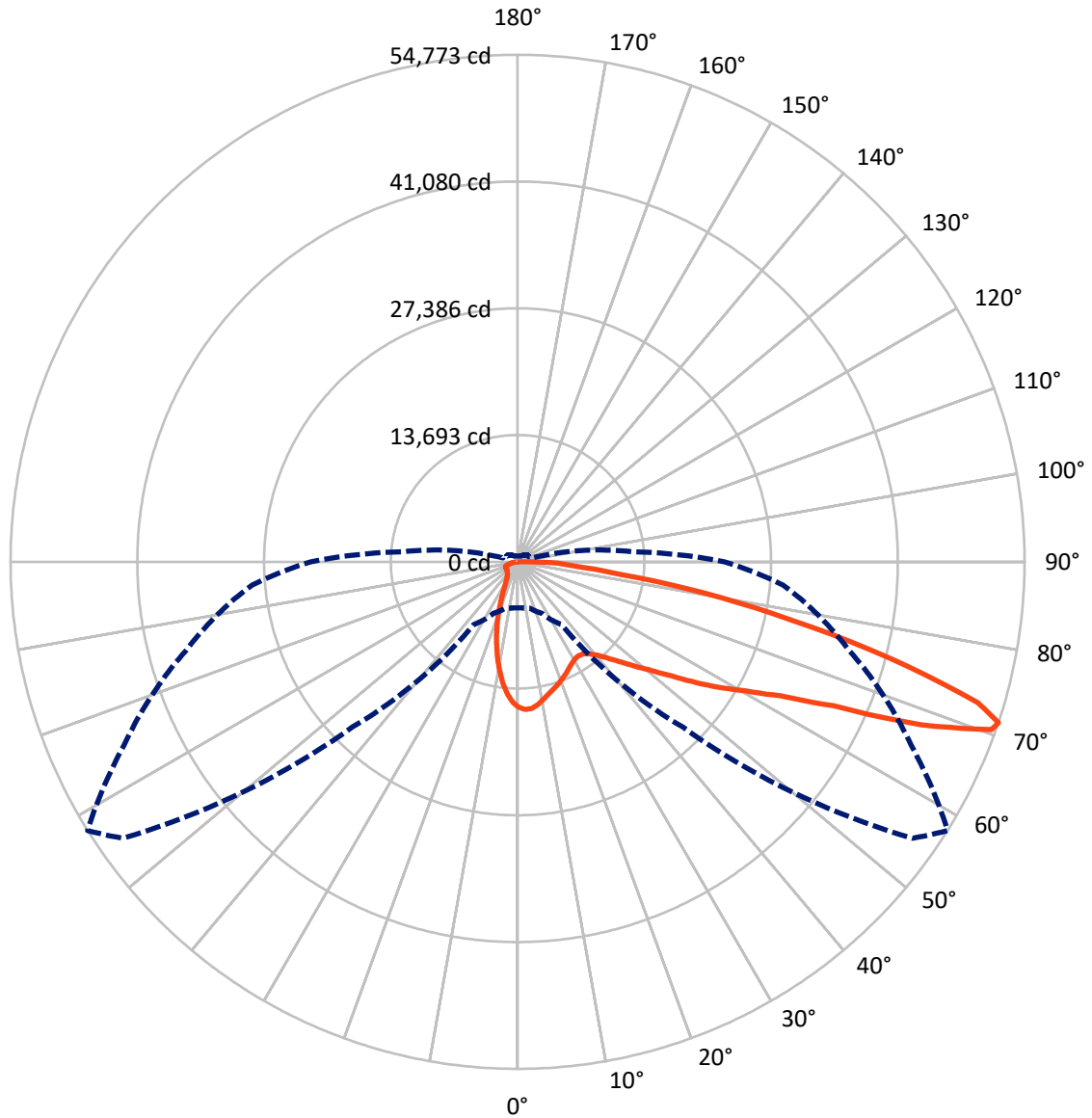
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 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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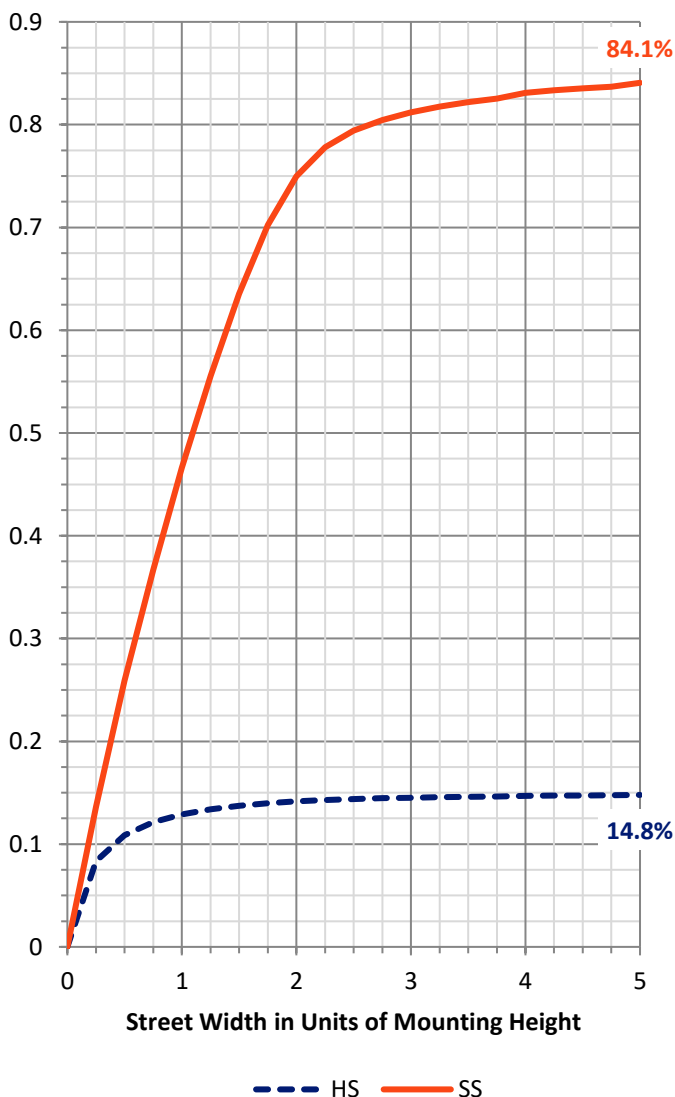
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8475.5	0.0	8475.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	48214.5	0.0	48214.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	56690.0	0.0	56690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1355.0	2.4
10°-20°	3013.1	5.3
20°-30°	3829.3	6.8
30°-40°	4877.8	8.6
40°-50°	6916.9	12.2
50°-60°	10704.2	18.9
60°-70°	14572.4	25.7
70°-80°	9721.5	17.1
80°-90°	1699.7	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°	56690.0	100.0
0°-180°	56690.0	100.0

Coefficient of Utilization

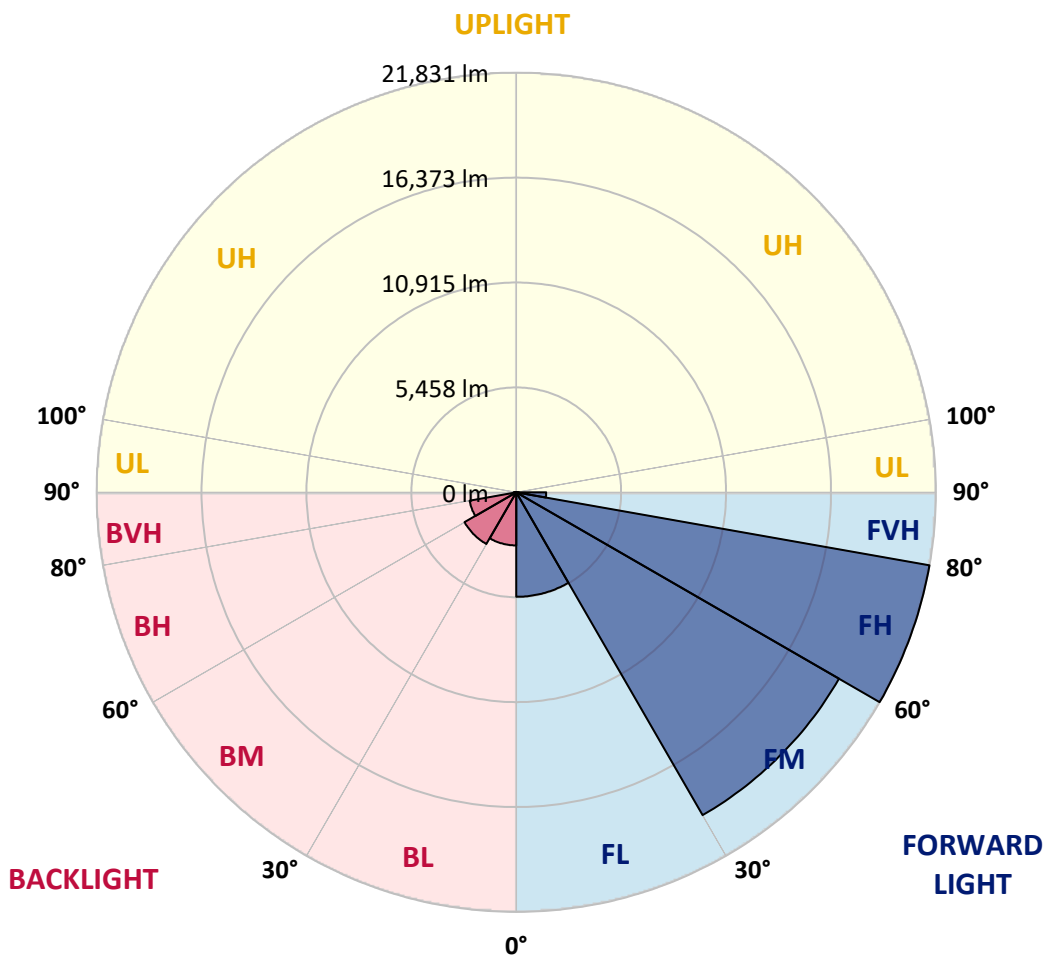


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5434.7	9.6			
FM (30°-60°)	19390.7	34.2			
FH (60°-80°)	21830.6	38.5			G5
FVH (80°-90°)	1558.4	2.7			G5
BL (0°-30°)	2762.8	4.9	B4/5000		
BM (30°-60°)	3108.2	5.5	B3/5000		
BH (60°-80°)	2463.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	141.2	0.2			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9
2.5°	16123.6	16101.9	16109.8	16094.0	16056.4	16018.9	15963.6	15973.5	15896.5	15782.0	15639.8
5°	15819.5	15811.6	15870.8	15904.4	15932.0	15910.3	15894.5	15914.3	15801.7	15643.7	15396.9
7.5°	15181.6	15094.8	15169.8	15282.4	15389.0	15470.0	15576.6	15590.4	15519.3	15353.4	15029.6
10°	14275.2	14192.3	14302.9	14478.6	14691.9	14885.4	15100.7	15140.2	15154.0	15003.9	14611.0
12.5°	13335.3	13272.1	13382.7	13629.5	13983.0	14281.2	14624.8	14684.0	14806.4	14705.7	14223.9
15°	12494.1	12470.4	12604.6	12847.5	13254.3	13710.5	14206.1	14314.7	14522.1	14488.5	13921.8
17.5°	11767.4	11761.4	11864.1	12118.9	12569.1	13145.7	13789.5	13973.1	14281.2	14320.7	13673.0
20°	11226.3	11214.4	11285.5	11473.1	11937.2	12590.8	13339.2	13592.0	14036.3	14174.5	13416.2
22.5°	10936.0	10934.0	10936.0	11024.9	11404.0	12012.2	12900.8	13208.9	13797.4	14058.0	13131.9
25°	10886.6	10880.7	10837.3	10827.4	11042.6	11528.4	12466.4	12806.1	13570.3	13977.1	12861.3
27.5°	11015.0	11022.9	10965.6	10872.8	10916.2	11210.5	12089.2	12452.6	13388.6	13961.3	12673.8
30°	11281.6	11277.6	11228.3	11131.5	11046.6	11092.0	11820.7	12184.0	13266.2	14030.4	12545.4
32.5°	11575.8	11597.5	11587.7	11534.3	11408.0	11226.3	11739.7	12095.2	13230.6	14196.3	12490.1
35°	11929.3	11953.0	12024.1	12065.5	11917.4	11625.2	11913.5	12221.5	13333.3	14508.3	12579.0
37.5°	12265.0	12326.2	12525.6	12701.4	12575.0	12249.2	12375.6	12594.8	13651.2	15000.0	12817.9
40°	12652.0	12705.3	13031.2	13404.4	13384.6	13047.0	13120.0	13266.2	14212.1	15704.9	13250.4
42.5°	13033.1	13139.8	13611.7	14141.0	14293.0	13994.8	14111.3	14188.4	15001.9	16639.0	14004.7
45°	13540.7	13655.2	14310.8	14948.6	15304.1	15136.2	15321.8	15351.5	15995.2	17910.7	15100.7
47.5°	14308.8	14439.1	15203.4	15872.8	16415.8	16433.6	16739.7	16727.8	17235.4	19366.1	16481.0
50°	15505.5	15693.1	16319.1	16945.1	17604.6	17971.9	18380.7	18323.4	18722.3	20916.2	18070.7
52.5°	17073.4	17160.3	17624.4	18086.5	18906.0	19729.4	20315.9	20264.6	20408.7	22509.8	19875.6
55°	18698.6	18763.8	18955.3	19208.1	20310.0	21652.8	22892.9	22812.0	22446.6	24164.6	21658.7
57.5°	20159.9	20292.2	20424.5	20529.2	21723.9	23663.1	25529.2	25535.1	24658.3	25949.8	23501.1
60°	20387.0	20503.5	21378.3	22203.7	24142.9	26344.7	28351.0	28291.8	26947.0	27887.0	25554.8
62.5°	18021.3	18283.9	19745.2	21941.1	26473.1	31249.9	31951.0	31877.9	29684.0	30274.4	27946.2
65°	12914.7	13212.8	14976.3	18276.0	25343.6	36654.7	38447.8	37464.4	33416.2	33210.8	30746.4
67.5°	7450.6	7521.7	8285.9	10936.0	19297.0	36937.1	48358.9	46982.5	39212.0	36542.2	32116.8
70°	5509.5	5507.5	5689.2	6729.8	10442.3	30146.1	53072.6	54306.8	45313.9	37638.2	30179.6
71°	4982.2	4988.1	5191.5	6125.6	8270.1	25233.0	52071.4	54772.8	46921.3	37097.1	28777.6
72.5°	4261.4	4281.2	4563.6	5493.7	6956.9	17401.2	47758.6	51976.6	47683.6	35762.2	26583.7
75°	3232.6	3278.0	3669.0	4630.7	6358.6	8825.0	35051.3	41504.7	42359.7	31556.0	19753.1
77.5°	2306.5	2357.8	2800.2	3894.1	6044.6	6650.9	23473.5	30274.4	31172.9	20223.1	8909.9
80°	1457.3	1518.6	1852.3	3098.3	5679.3	6315.2	14751.2	20349.5	16998.4	6471.2	2267.0
82.5°	855.1	902.4	1149.3	2024.1	4638.6	6082.1	8678.9	11279.6	6615.3	1955.0	1030.8
85°	495.7	517.4	716.8	1289.5	3368.9	5740.5	6376.4	6305.3	2871.2	955.8	487.8
87.5°	231.0	256.7	424.6	673.4	1870.1	4160.7	5039.5	4354.3	1785.1	448.3	229.1
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°	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9	15706.9
2.5°	15570.7	15537.1	15396.9	15272.5	15142.1	14972.3	14784.7	14761.0	14646.5	14668.2	14628.7
5°	15262.6	15177.7	14840.0	14533.9	14172.6	13848.7	13497.2	13335.3	13102.3	13086.5	13027.2
7.5°	14822.2	14664.3	14141.0	13560.4	12979.8	12426.9	11879.9	11520.5	11153.2	10997.2	10983.4
10°	14326.6	14058.0	13287.9	12428.9	11591.6	10783.9	10002.0	9423.4	8902.0	8655.2	8645.3
12.5°	13856.6	13459.7	12403.2	11234.2	10088.8	9042.2	7970.0	7209.7	6556.1	6336.9	6244.1
15°	13457.7	12898.9	11542.2	10047.4	8657.2	7203.8	5983.4	5183.6	4579.4	4370.1	4330.6
17.5°	13070.7	12351.9	10659.5	8848.7	7168.2	5570.7	4348.3	3753.9	3432.1	3347.1	3345.2
20°	12685.6	11789.1	9737.3	7622.4	5728.7	4166.7	3343.2	3076.6	2968.0	2958.1	2942.3
22.5°	12249.2	11192.7	8767.8	6392.2	4470.8	3276.1	2841.6	2735.0	2721.2	2756.7	2756.7
25°	11840.4	10600.3	7784.3	5187.6	3477.5	2733.0	2537.5	2515.8	2553.3	2616.5	2622.4
27.5°	11459.3	10029.6	6824.6	4117.3	2786.3	2407.2	2326.2	2351.9	2419.0	2492.1	2494.1
30°	11145.3	9490.5	5892.6	3244.5	2353.9	2164.3	2150.5	2201.8	2274.9	2332.1	2346.0
32.5°	10902.4	9030.4	4992.1	2608.6	2071.5	1982.6	1994.5	2037.9	2083.3	2114.9	2136.6
35°	10789.9	8635.4	4160.7	2199.8	1891.8	1842.4	1858.2	1881.9	1901.7	1925.4	1943.1
37.5°	10809.6	8329.4	3418.2	1945.1	1771.3	1745.7	1745.7	1745.7	1745.7	1757.5	1759.5
40°	10993.3	8153.6	2814.0	1783.2	1690.4	1662.7	1641.0	1621.2	1605.4	1613.3	1609.4
42.5°	11463.2	8137.8	2371.6	1680.5	1625.2	1579.8	1536.3	1508.7	1488.9	1496.8	1500.8
45°	12261.0	8335.3	2073.5	1607.4	1564.0	1494.9	1439.6	1409.9	1396.1	1421.8	1425.7
47.5°	13293.8	8765.8	1891.8	1554.1	1506.7	1415.9	1356.6	1329.0	1332.9	1370.5	1380.3
50°	14624.8	9464.8	1804.9	1520.5	1467.2	1348.7	1287.5	1263.8	1275.7	1329.0	1340.8
52.5°	16086.1	10471.9	1814.8	1510.7	1441.5	1299.4	1234.2	1206.6	1226.3	1275.7	1285.5
55°	17772.5	11682.4	1978.7	1524.5	1404.0	1267.8	1190.8	1143.4	1159.2	1204.6	1212.5
57.5°	19646.5	13068.7	2308.4	1520.5	1356.6	1238.1	1145.3	1074.2	1086.1	1113.7	1121.6
60°	21597.5	14743.3	2819.9	1532.4	1334.9	1202.6	1084.1	995.3	991.3	1015.0	1019.0
62.5°	23939.5	16680.5	3404.4	1540.3	1348.7	1157.2	1003.2	916.3	904.4	910.3	914.3
65°	26352.6	18082.5	3185.2	1508.7	1392.2	1119.7	932.1	839.3	817.5	813.6	815.6
67.5°	26427.7	16579.7	2233.4	1445.5	1409.9	1099.9	878.8	774.1	738.5	724.7	722.7
70°	23700.6	13469.6	1739.7	1378.4	1338.9	1068.3	829.4	720.8	667.5	645.7	643.8
71°	22369.6	12399.3	1648.9	1344.8	1285.5	1036.7	807.7	697.1	641.8	618.1	614.1
72.5°	20282.3	11115.7	1538.3	1291.5	1182.9	955.8	766.2	663.5	606.2	578.6	572.7
75°	14555.7	7268.9	1321.1	1151.3	979.5	762.2	671.4	596.4	547.0	513.4	509.5
77.5°	5608.2	2893.0	999.2	957.7	750.4	596.4	552.9	515.4	479.9	446.3	444.3
80°	1733.8	1293.4	728.7	720.8	543.0	444.3	430.5	420.6	406.8	371.2	363.3
82.5°	926.1	742.5	501.6	466.0	355.4	296.2	312.0	316.0	317.9	280.4	276.5
85°	442.3	393.0	282.4	264.6	207.3	165.9	191.5	207.3	209.3	171.8	160.0
87.5°	211.3	205.4	132.3	100.7	77.0	55.3	67.1	82.9	90.8	65.2	57.3
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)