

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: P319662

Luminaire Tested: **GAN-SA8D-730-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319662
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-SA8D-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 56636 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

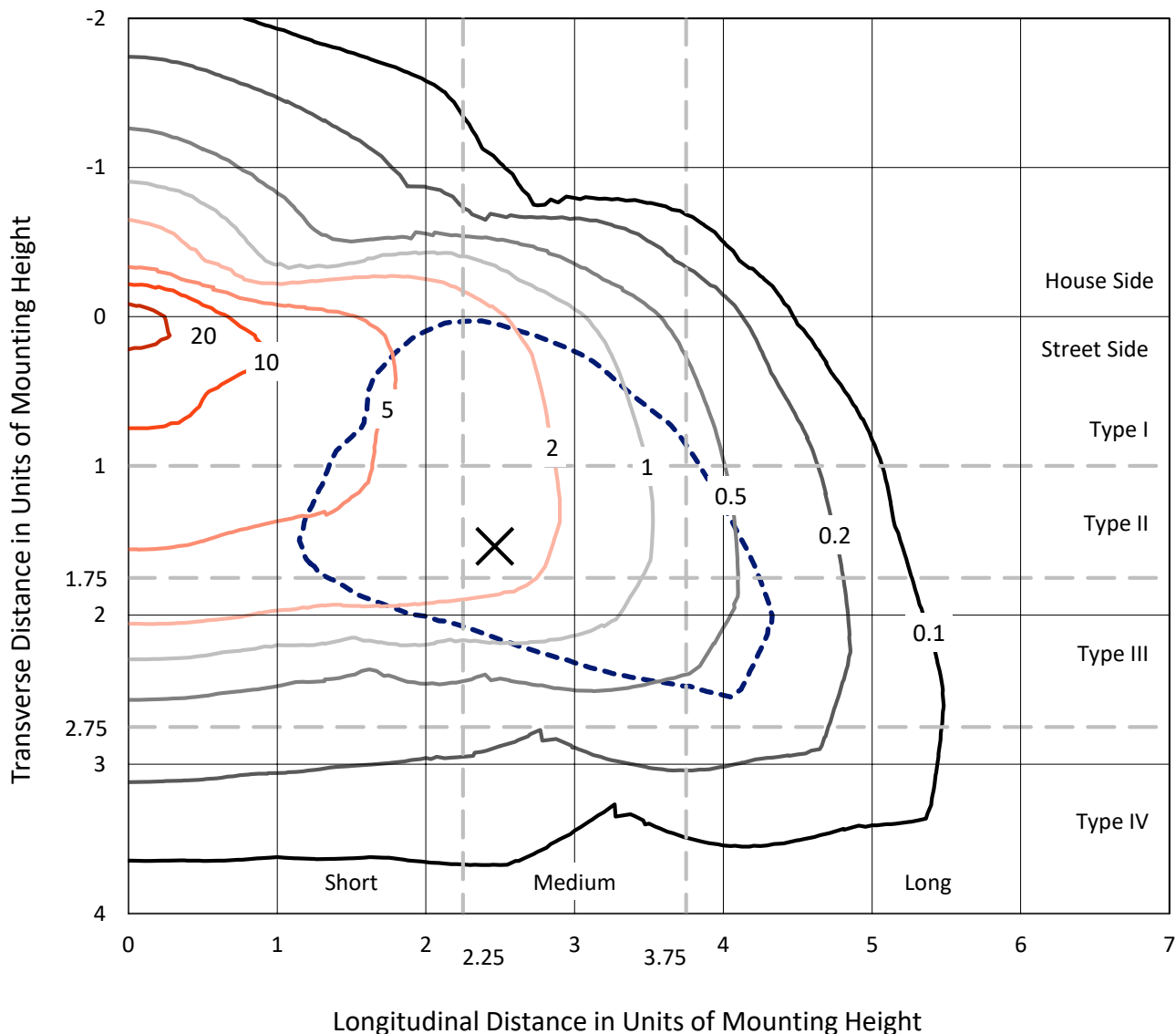
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

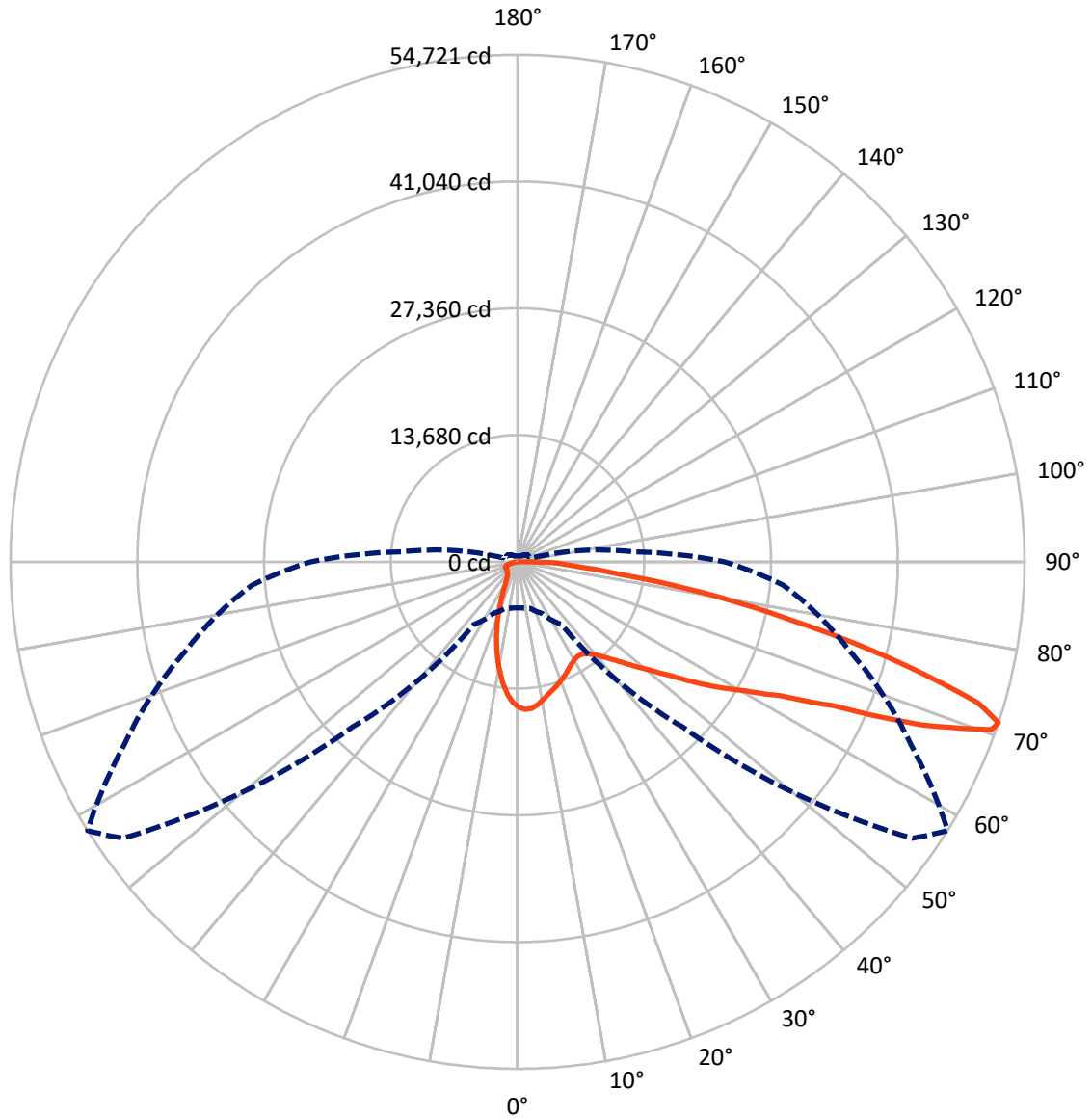
✕ Max cd
 - - - 1/2 Max cd



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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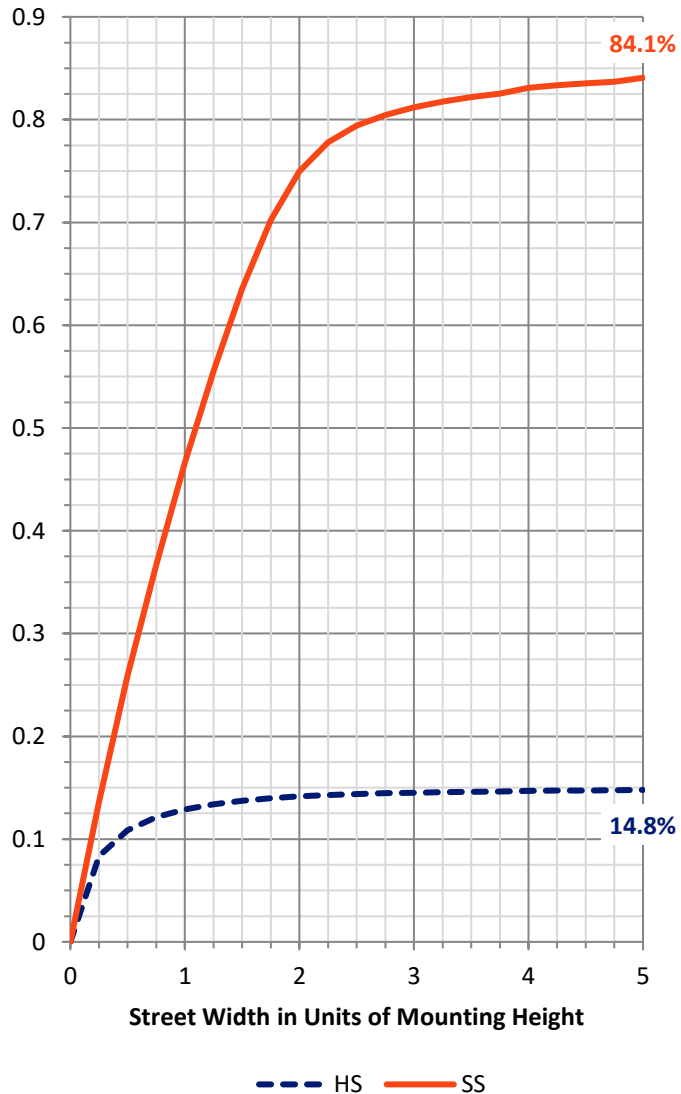
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8467.5	0.0	8467.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	48168.5	0.0	48168.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	56636.0	0.0	56636.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1353.7	2.4
10°-20°	3010.2	5.3
20°-30°	3825.7	6.8
30°-40°	4873.1	8.6
40°-50°	6910.4	12.2
50°-60°	10694.0	18.9
60°-70°	14558.6	25.7
70°-80°	9712.2	17.1
80°-90°	1698.0	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°	56636.0	100.0
0°-180°	56636.0	100.0

Coefficient of Utilization

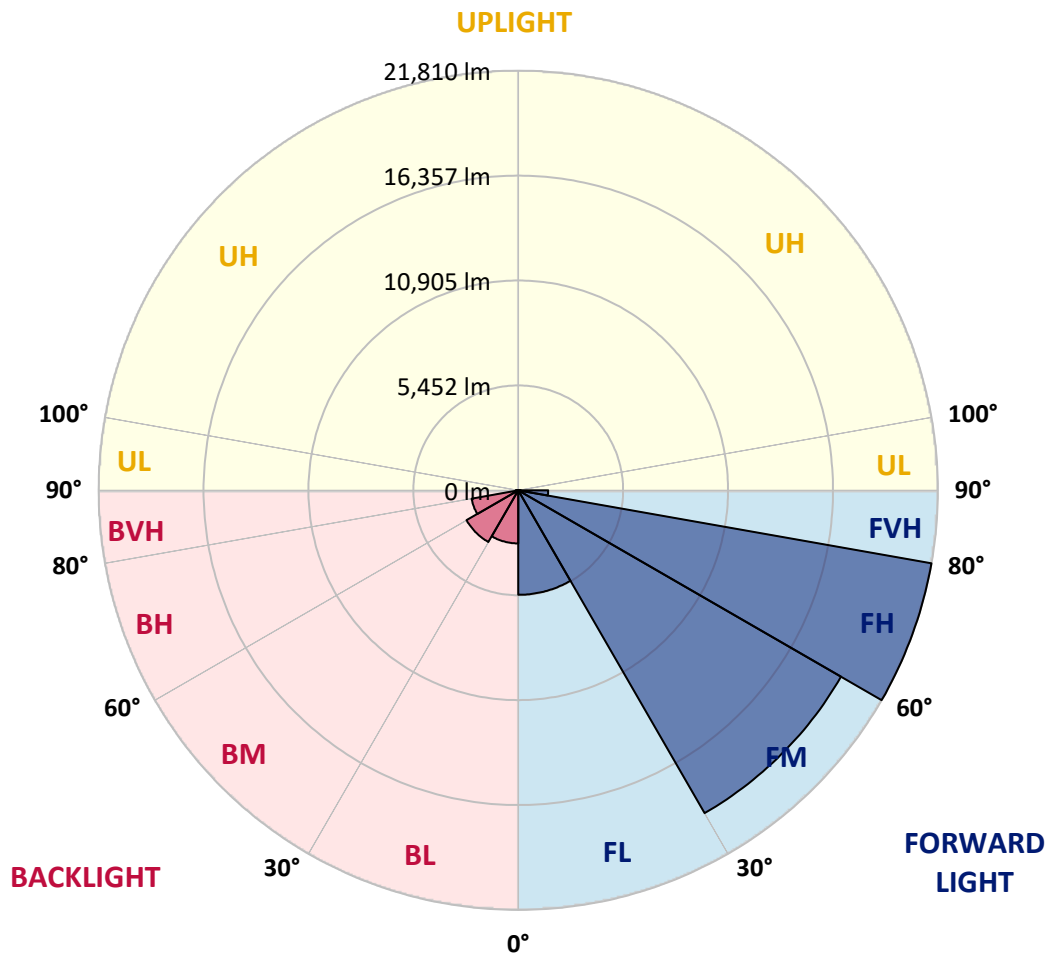


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5429.5	9.6			
FM (30°-60°)	19372.3	34.2			
FH (60°-80°)	21809.8	38.5			G5
FVH (80°-90°)	1557.0	2.7			G5
BL (0°-30°)	2760.1	4.9	B4/5000		
BM (30°-60°)	3105.3	5.5	B3/5000		
BH (60°-80°)	2461.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	141.1	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°	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0
2.5°	16108.2	16086.5	16094.4	16078.6	16041.2	16003.7	15948.4	15958.3	15881.4	15766.9	15624.9
5°	15804.4	15796.5	15855.7	15889.2	15916.9	15895.2	15879.4	15899.1	15786.7	15628.8	15382.2
7.5°	15167.2	15080.4	15155.3	15267.8	15374.3	15455.2	15561.8	15575.6	15504.5	15338.8	15015.3
10°	14261.7	14178.8	14289.3	14464.9	14677.9	14871.3	15086.3	15125.8	15139.6	14989.6	14597.0
12.5°	13322.6	13259.4	13369.9	13616.5	13969.7	14267.6	14610.8	14670.0	14792.3	14691.7	14210.4
15°	12482.1	12458.5	12592.6	12835.3	13241.7	13697.4	14192.6	14301.1	14508.3	14474.7	13908.5
17.5°	11756.1	11750.2	11852.8	12107.3	12557.1	13133.2	13776.3	13959.8	14267.6	14307.0	13659.9
20°	11215.6	11203.8	11274.8	11462.2	11925.8	12578.8	13326.5	13579.0	14022.9	14161.0	13403.5
22.5°	10925.6	10923.6	10925.6	11014.4	11393.1	12000.8	12888.6	13196.3	13784.2	14044.6	13119.4
25°	10876.3	10870.3	10826.9	10817.1	11032.1	11517.4	12454.5	12793.9	13557.3	13963.8	12849.1
27.5°	11004.5	11012.4	10955.2	10862.4	10905.9	11199.8	12077.7	12440.7	13375.8	13948.0	12661.7
30°	11270.8	11266.9	11217.6	11120.9	11036.1	11081.4	11809.4	12172.4	13253.5	14017.0	12533.4
32.5°	11564.8	11586.5	11576.6	11523.4	11397.1	11215.6	11728.5	12083.6	13218.0	14182.7	12478.2
35°	11917.9	11941.6	12012.6	12054.0	11906.1	11614.1	11902.1	12209.9	13320.6	14494.4	12567.0
37.5°	12253.3	12314.5	12513.7	12689.3	12563.0	12237.5	12363.8	12582.8	13638.2	14985.7	12805.7
40°	12640.0	12693.2	13018.8	13391.6	13371.9	13034.5	13107.5	13253.5	14198.5	15690.0	13237.7
42.5°	13020.7	13127.3	13598.8	14127.5	14279.4	13981.5	14097.9	14174.8	14987.7	16623.1	13991.4
45°	13527.8	13642.2	14297.2	14934.4	15289.5	15121.8	15307.3	15336.8	15980.0	17893.6	15086.3
47.5°	14295.2	14425.4	15188.9	15857.7	16400.2	16418.0	16723.8	16711.9	17218.9	19347.6	16465.3
50°	15490.7	15678.1	16303.5	16928.9	17587.9	17954.8	18363.2	18306.0	18704.5	20896.3	18053.4
52.5°	17057.2	17144.0	17607.6	18069.2	18888.0	19710.6	20296.6	20245.3	20389.3	22488.4	19856.6
55°	18680.8	18745.9	18937.3	19189.8	20290.6	21632.2	22871.1	22790.2	22425.3	24141.6	21638.1
57.5°	20140.7	20272.9	20405.1	20509.6	21703.2	23640.5	25504.9	25510.8	24634.8	25925.1	23478.8
60°	20367.6	20484.0	21358.0	22182.6	24119.9	26319.6	28324.0	28264.9	26921.4	27860.4	25530.5
62.5°	18004.1	18266.5	19726.4	21920.2	26447.9	31220.2	31920.5	31847.5	29655.7	30245.6	27919.6
65°	12902.4	13200.3	14962.0	18258.6	25319.4	36619.8	38411.2	37428.7	33384.4	33179.2	30717.1
67.5°	7443.5	7514.5	8278.0	10925.6	19278.6	36901.9	48312.8	46937.8	39174.7	36507.4	32086.2
70°	5504.2	5502.2	5683.7	6723.4	10432.4	30117.4	53022.0	54255.0	45270.7	37602.3	30150.9
71°	4977.5	4983.4	5186.6	6119.7	8262.2	25208.9	52021.8	54720.6	46876.6	37061.7	28750.2
72.5°	4257.4	4277.1	4559.2	5488.4	6950.3	17384.7	47713.1	51927.1	47638.1	35728.1	26558.4
75°	3229.5	3274.9	3665.5	4626.3	6352.5	8816.6	35017.9	41465.1	42319.4	31526.0	19734.3
77.5°	2304.3	2355.6	2797.5	3890.4	6038.9	6644.5	23451.1	30245.6	31143.2	20203.8	8901.4
80°	1456.0	1517.1	1850.5	3095.4	5673.9	6309.1	14737.1	20330.1	16982.2	6465.0	2264.8
82.5°	854.2	901.6	1148.2	2022.2	4634.2	6076.3	8670.6	11268.9	6609.0	1953.1	1029.8
85°	495.2	516.9	716.1	1288.3	3365.7	5735.0	6370.3	6299.3	2868.5	954.9	487.3
87.5°	230.8	256.5	424.2	672.7	1868.3	4156.8	5034.7	4350.1	1783.4	447.8	228.8
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°	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0	15692.0
2.5°	15555.8	15522.3	15382.2	15257.9	15127.7	14958.1	14770.6	14747.0	14632.5	14654.2	14614.8
5°	15248.1	15163.2	14825.9	14520.1	14159.1	13835.5	13484.4	13322.6	13089.8	13074.0	13014.8
7.5°	14808.1	14650.3	14127.5	13547.5	12967.5	12415.1	11868.6	11509.5	11142.6	10986.7	10972.9
10°	14312.9	14044.6	13275.2	12417.0	11580.6	10773.7	9992.4	9414.4	8893.6	8647.0	8637.1
12.5°	13843.4	13446.9	12391.4	11223.5	10079.2	9033.6	7962.4	7202.8	6549.8	6330.8	6238.1
15°	13444.9	12886.6	11531.2	10037.8	8648.9	7196.9	5977.7	5178.7	4575.0	4365.9	4326.4
17.5°	13058.2	12340.1	10649.4	8840.3	7161.4	5565.4	4344.2	3750.4	3428.8	3344.0	3342.0
20°	12673.5	11777.8	9728.1	7615.2	5723.2	4162.7	3340.0	3073.7	2965.2	2955.3	2939.5
22.5°	12237.5	11182.0	8759.4	6386.1	4466.5	3272.9	2838.9	2732.4	2718.6	2754.1	2754.1
25°	11829.1	10590.2	7776.9	5182.6	3474.2	2730.4	2535.1	2513.4	2550.9	2614.0	2619.9
27.5°	11448.4	10020.0	6818.1	4113.4	2783.7	2404.9	2324.0	2349.7	2416.7	2489.7	2491.7
30°	11134.7	9481.5	5887.0	3241.4	2351.6	2162.2	2148.4	2199.7	2272.7	2329.9	2343.7
32.5°	10892.0	9021.8	4987.3	2606.1	2069.5	1980.7	1992.6	2036.0	2081.3	2112.9	2134.6
35°	10779.6	8627.2	4156.8	2197.7	1890.0	1840.7	1856.4	1880.1	1899.8	1923.5	1941.3
37.5°	10799.3	8321.4	3415.0	1943.2	1769.6	1744.0	1744.0	1744.0	1744.0	1755.8	1757.8
40°	10982.8	8145.9	2811.3	1781.5	1688.7	1661.1	1639.4	1619.7	1603.9	1611.8	1607.9
42.5°	11452.3	8130.1	2369.4	1678.9	1623.6	1578.3	1534.9	1507.2	1487.5	1495.4	1499.4
45°	12249.4	8327.4	2071.5	1605.9	1562.5	1493.4	1438.2	1408.6	1394.8	1420.4	1424.4
47.5°	13281.1	8757.4	1890.0	1552.6	1505.3	1414.5	1355.3	1327.7	1331.7	1369.1	1379.0
50°	14610.8	9455.8	1803.2	1519.1	1465.8	1347.4	1286.3	1262.6	1274.5	1327.7	1339.6
52.5°	16070.7	10462.0	1813.0	1509.2	1440.2	1298.1	1233.0	1205.4	1225.1	1274.5	1284.3
55°	17755.5	11671.3	1976.8	1523.0	1402.7	1266.6	1189.6	1142.3	1158.1	1203.4	1211.3
57.5°	19627.8	13056.2	2306.2	1519.1	1355.3	1237.0	1144.2	1073.2	1085.1	1112.7	1120.6
60°	21576.9	14729.2	2817.2	1530.9	1333.6	1201.5	1083.1	994.3	990.4	1014.0	1018.0
62.5°	23916.7	16664.6	3401.2	1538.8	1347.4	1156.1	1002.2	915.4	903.6	909.5	913.4
65°	26327.5	18065.3	3182.2	1507.2	1390.9	1118.6	931.2	838.5	816.8	812.8	814.8
67.5°	26402.5	16564.0	2231.3	1444.1	1408.6	1098.9	877.9	773.4	737.8	724.0	722.1
70°	23678.0	13456.7	1738.1	1377.0	1337.6	1067.3	828.6	720.1	666.8	645.1	643.1
71°	22348.3	12387.5	1647.3	1343.5	1284.3	1035.7	806.9	696.4	641.2	617.5	613.6
72.5°	20263.0	11105.1	1536.8	1290.2	1181.7	954.9	765.5	662.9	605.7	578.0	572.1
75°	14541.8	7262.0	1319.8	1150.2	978.5	761.5	670.8	595.8	546.5	512.9	509.0
77.5°	5602.9	2890.2	998.3	956.8	749.7	595.8	552.4	514.9	479.4	445.9	443.9
80°	1732.2	1292.2	728.0	720.1	542.5	443.9	430.1	420.2	406.4	370.9	363.0
82.5°	925.3	741.8	501.1	465.6	355.1	295.9	311.7	315.7	317.6	280.1	276.2
85°	441.9	392.6	282.1	264.4	207.1	165.7	191.4	207.1	209.1	171.6	159.8
87.5°	211.1	205.2	132.2	100.6	76.9	55.2	67.1	82.9	90.8	65.1	57.2
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)