

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: P319343

Luminaire Tested: **GAN-SA9D-730-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9D-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 61883 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

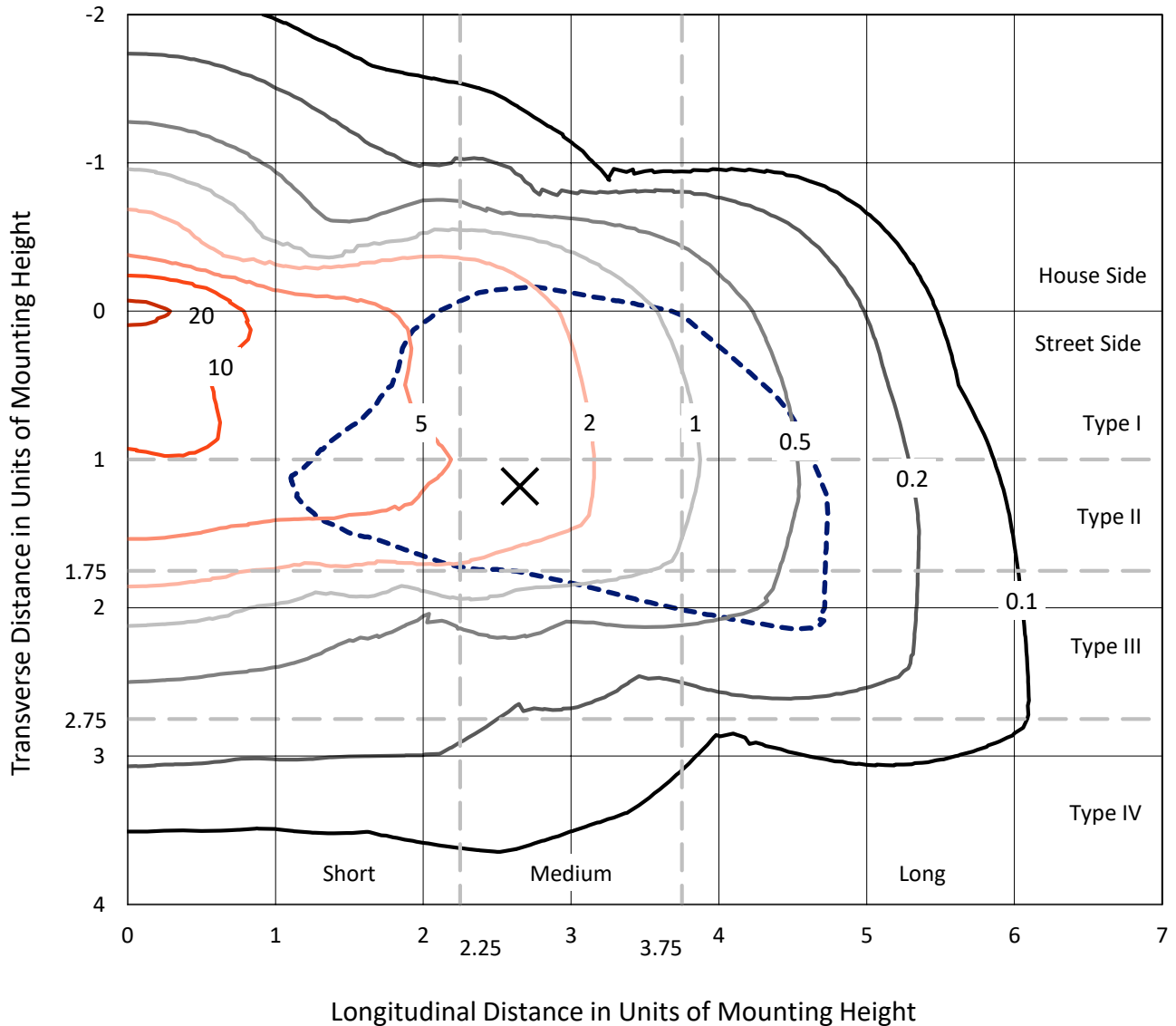
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

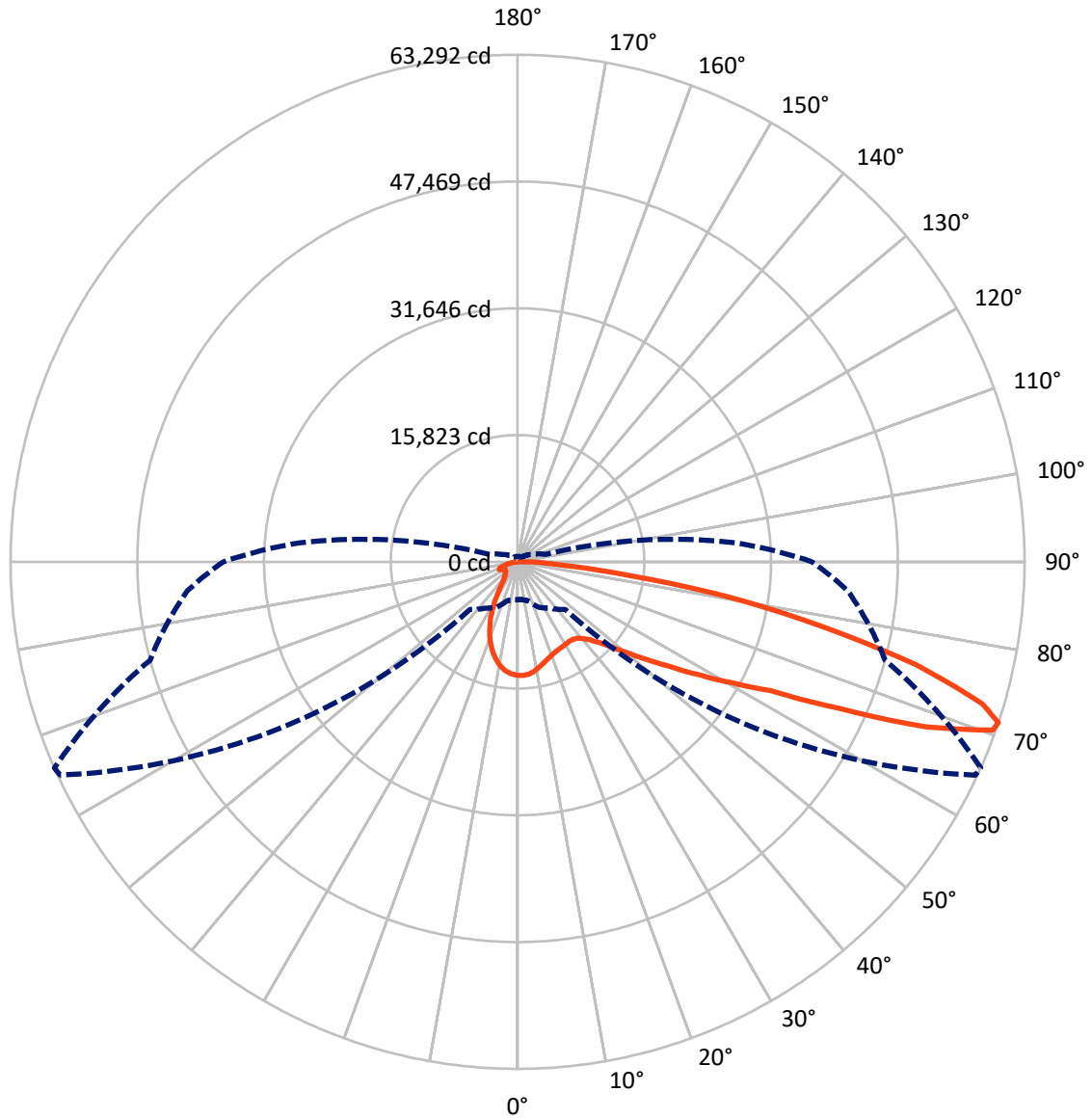
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical



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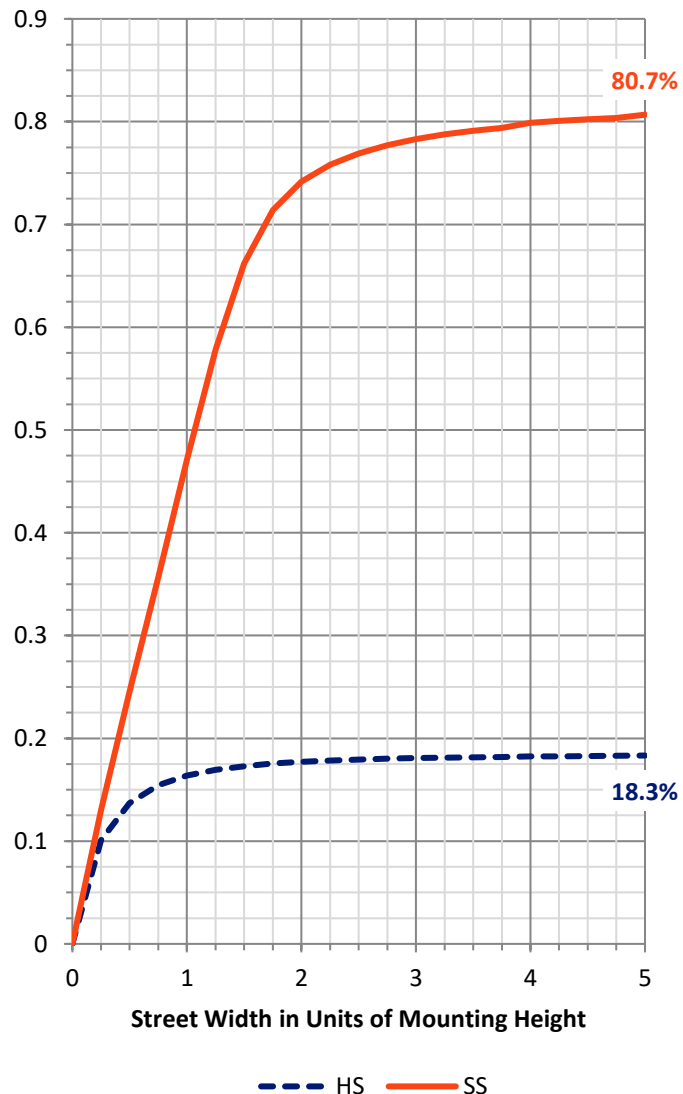
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11468.6	0.0	11468.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	50414.4	0.0	50414.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	61883.0	0.0	61883.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1247.8	2.0
10°-20°	2992.9	4.8
20°-30°	4020.2	6.5
30°-40°	5288.5	8.5
40°-50°	7693.3	12.4
50°-60°	12017.8	19.4
60°-70°	15054.3	24.3
70°-80°	11483.0	18.6
80°-90°	2085.2	3.4
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°	61883.0	100.0
0°-180°	61883.0	100.0

Coefficient of Utilization

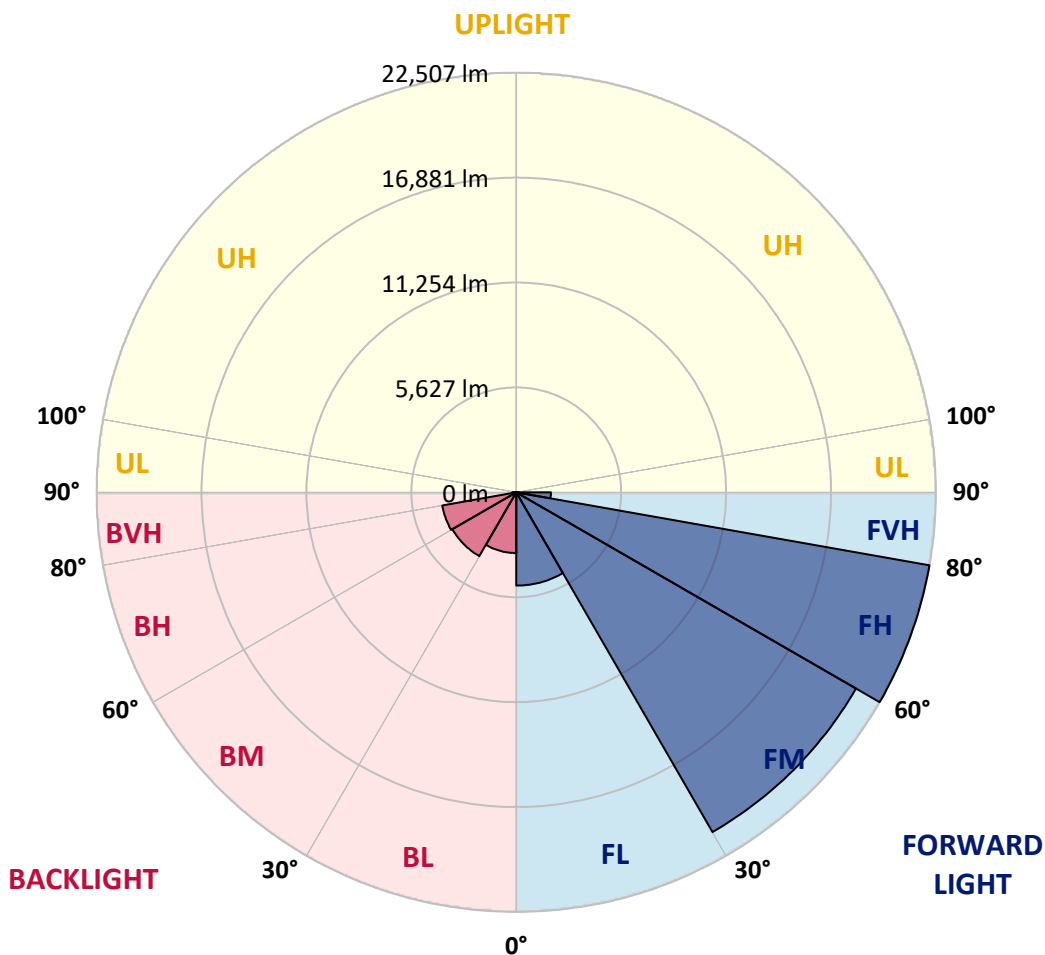


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5004.1	8.1			
FM (30°-60°)	21043.3	34.0			
FH (60°-80°)	22507.5	36.4			G5
FVH (80°-90°)	1859.5	3.0			G5
BL (0°-30°)	3256.8	5.3	B4/5000		
BM (30°-60°)	3956.3	6.4	B3/5000		
BH (60°-80°)	4029.8	6.5	B4/5000		G4/5000
BVH (80°-90°)	225.7	0.4			G3/500
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°	65°	66°	75°	85°
0°	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2
2.5°	13913.4	13892.0	13956.1	14022.4	14048.0	14090.7	14154.8	14191.2	14189.0	14195.4	14174.1
5°	12990.4	12962.6	13090.8	13195.5	13396.3	13622.8	13898.4	14095.0	14099.3	14210.4	14240.3
7.5°	12116.5	12097.3	12244.7	12413.5	12646.4	12992.5	13439.1	13862.1	13887.8	14189.0	14293.7
10°	11415.7	11411.5	11554.6	11738.4	12009.7	12396.4	12909.2	13528.8	13567.3	14086.5	14302.3
12.5°	10868.8	10877.3	11001.2	11210.6	11496.9	11900.7	12456.3	13154.9	13216.9	13924.1	14253.1
15°	10465.0	10499.1	10599.6	10811.1	11093.1	11503.3	12073.8	12808.8	12902.8	13742.5	14225.3
17.5°	10234.2	10272.7	10343.2	10518.4	10783.3	11178.6	11719.1	12524.6	12610.1	13603.6	14227.5
20°	10165.8	10197.9	10238.5	10345.3	10569.7	10928.6	11439.2	12268.2	12360.1	13492.5	14248.8
22.5°	10300.4	10323.9	10328.2	10319.7	10456.4	10749.1	11236.3	12080.2	12178.5	13419.8	14263.8
25°	10588.9	10620.9	10597.4	10518.4	10473.5	10653.0	11131.6	11956.3	12054.6	13366.4	14233.9
27.5°	11022.6	11026.9	11007.7	10905.1	10693.6	10663.7	11099.5	11883.6	11977.7	13304.5	14171.9
30°	11612.3	11640.1	11605.9	11467.0	11120.9	10834.6	11138.0	11813.1	11898.6	13225.4	14071.5
32.5°	12302.4	12370.8	12368.7	12223.4	11727.7	11217.0	11296.1	11770.4	11836.6	13142.1	13949.7
35°	13018.2	13112.2	13287.4	13225.4	12612.2	11821.7	11599.5	11838.8	11883.6	13131.4	13864.3
37.5°	13761.7	13855.7	14216.8	14383.4	13665.6	12687.0	12078.1	12080.2	12101.6	13261.7	13857.8
40°	14539.4	14639.8	15182.5	15616.3	15030.8	13783.1	12849.4	12584.4	12560.9	13582.2	13983.9
42.5°	15629.1	15718.8	16370.5	16923.8	16545.7	15186.8	13915.5	13362.2	13313.0	14210.4	14387.7
45°	17007.2	17084.1	17776.3	18368.2	18173.7	16789.2	15255.2	14432.6	14424.0	15257.3	15206.0
47.5°	18645.9	18705.7	19327.5	19900.1	19970.6	18633.1	16938.8	16084.2	15945.3	16693.1	16473.0
50°	20353.0	20419.3	20842.3	21457.7	21981.1	21100.8	19105.3	18107.5	17921.6	18588.2	18267.7
52.5°	21483.3	21570.9	21938.4	22718.2	24241.6	23805.8	21667.0	20560.3	20278.3	20885.1	20639.3
55°	20979.1	21175.6	21737.5	22987.4	26049.2	27937.9	24827.0	23421.2	23102.8	23607.1	23461.8
57.5°	18686.5	18955.7	19722.8	21652.1	26303.4	31578.6	29604.4	26790.6	26566.2	26420.9	26487.2
60°	14496.7	14755.2	15706.0	18220.7	24532.2	34236.5	36794.0	30944.1	30619.3	29245.5	29305.3
62.5°	10259.8	10129.5	10781.2	12620.8	19934.3	34548.5	44975.0	36499.2	35430.9	32228.1	31965.3
65°	7824.1	7794.2	8086.9	8672.4	12073.8	30815.9	49848.5	45836.0	44167.3	35736.4	35116.8
67.5°	6429.0	6375.5	6664.0	7516.5	7775.0	19880.9	49955.3	56668.5	55029.7	40103.6	38761.8
70°	5285.9	5226.1	5495.3	6595.6	7185.3	10082.5	42043.6	63012.0	62924.4	45633.0	41513.7
71°	4738.9	4696.2	5018.8	6240.9	7059.3	8403.2	36300.5	63029.1	63291.9	47504.7	41351.3
72.5°	3858.7	3873.6	4215.5	5555.1	6965.2	7420.3	26679.5	60091.3	60646.8	49288.7	39875.0
75°	2563.9	2576.7	3025.4	4273.2	6753.7	7260.1	14663.3	50423.2	51444.5	48220.4	36385.9
77.5°	1722.1	1717.8	2023.3	2931.4	5884.1	7260.1	8597.6	37712.7	38834.4	38368.7	28051.1
80°	1185.8	1177.3	1393.0	2023.3	4454.8	7347.7	6646.9	26429.5	26769.2	20720.5	11400.8
82.5°	726.4	732.8	910.2	1429.4	3031.8	6612.7	6275.1	14411.2	14041.6	5811.5	2848.1
85°	416.6	414.5	581.1	967.9	1946.4	5580.7	6119.2	6202.5	5689.7	1749.9	1029.8
87.5°	149.6	160.2	311.9	536.3	1115.3	3886.4	5191.9	3226.2	2907.9	790.5	465.8
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°	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2	14176.2
2.5°	14159.1	14171.9	14157.0	14071.5	13998.9	13881.3	13815.1	13723.2	13695.5	13682.6	13716.8
5°	14212.5	14216.8	14090.7	13866.4	13614.3	13317.3	13103.6	12840.8	12716.9	12663.5	12697.7
7.5°	14261.7	14242.4	13966.8	13537.4	13071.6	12554.5	12095.2	11674.3	11428.6	11328.1	11336.7
10°	14268.1	14186.9	13744.6	13080.1	12358.0	11599.5	10894.4	10244.9	9834.7	9567.6	9648.8
12.5°	14201.8	14065.1	13417.7	12488.3	11486.2	10452.1	9499.2	8524.9	7939.5	7668.2	7676.7
15°	14150.6	13902.7	13016.0	11791.8	10445.7	9076.2	7775.0	6629.8	6005.9	5728.2	5597.8
17.5°	14107.8	13727.5	12550.3	11007.7	9217.2	7480.2	5916.2	4894.9	4553.0	4471.9	4437.7
20°	14048.0	13541.6	12031.1	10099.6	7817.7	5694.0	4320.2	3815.9	3818.1	3912.1	3924.9
22.5°	13964.7	13330.1	11477.7	9080.5	6315.7	4147.1	3386.5	3241.2	3388.6	3568.1	3600.1
25°	13840.8	13080.1	10862.4	7954.5	4815.8	3187.8	2892.9	2886.5	3066.0	3254.0	3281.8
27.5°	13665.6	12753.2	10178.7	6745.2	3548.9	2709.2	2591.7	2636.5	2769.0	2905.7	2916.4
30°	13430.5	12372.9	9424.4	5469.6	2781.8	2412.2	2399.4	2440.0	2521.2	2617.3	2625.9
32.5°	13172.0	11986.2	8619.0	4234.7	2382.3	2252.0	2264.8	2284.0	2322.5	2360.9	2369.5
35°	12937.0	11590.9	7794.2	3217.7	2192.1	2147.3	2138.7	2134.4	2138.7	2125.9	2128.0
37.5°	12785.3	11264.0	6935.3	2561.8	2083.2	2055.4	2029.7	1997.7	1961.4	1940.0	1944.3
40°	12729.7	11020.5	6065.7	2213.5	1993.4	1974.2	1925.1	1856.7	1814.0	1801.1	1801.1
42.5°	12879.3	10894.4	5226.1	2038.3	1918.6	1886.6	1805.4	1726.4	1694.3	1692.2	1690.0
45°	13336.5	10945.7	4427.0	1942.1	1850.3	1788.3	1681.5	1615.3	1593.9	1598.2	1596.0
47.5°	14157.0	11268.3	3743.3	1878.1	1781.9	1700.7	1581.1	1527.7	1502.0	1502.0	1504.2
50°	15552.2	12022.5	3198.5	1824.6	1724.2	1619.5	1508.4	1442.2	1408.0	1405.9	1405.9
52.5°	17584.0	13372.8	2858.7	1779.8	1660.1	1546.9	1435.8	1352.5	1311.9	1303.3	1299.0
55°	20130.8	15308.6	2764.7	1749.9	1574.7	1467.8	1348.2	1264.9	1220.0	1200.8	1198.6
57.5°	22978.9	17663.1	2950.6	1713.5	1487.1	1373.8	1252.0	1173.0	1126.0	1102.5	1100.3
60°	25861.1	20233.4	3709.1	1662.3	1414.4	1271.3	1153.8	1081.1	1034.1	1008.5	1004.2
62.5°	28747.7	22942.6	5258.1	1658.0	1363.1	1173.0	1053.3	991.4	946.5	918.7	912.3
65°	32003.8	25908.1	7018.7	1771.2	1346.0	1083.2	950.8	901.6	863.2	837.5	835.4
67.5°	35742.8	29256.2	6849.9	2004.1	1403.7	1002.1	854.6	816.2	788.4	767.0	764.9
70°	37496.9	28732.7	4258.2	2168.6	1484.9	923.0	762.8	735.0	713.6	698.7	692.3
71°	36762.0	27282.0	3570.2	2149.4	1476.4	888.8	726.4	705.1	683.7	670.9	664.5
72.5°	34757.9	24880.5	2978.4	1999.8	1380.2	826.9	679.4	658.1	638.8	623.9	619.6
75°	31189.8	22220.4	2384.4	1598.2	1100.3	698.7	596.1	572.6	557.6	549.1	540.6
77.5°	22927.6	15857.7	1843.9	1262.7	809.8	570.5	508.5	491.4	476.5	463.6	457.2
80°	8783.5	6142.7	1241.4	942.2	594.0	450.8	410.2	401.7	386.7	378.2	378.2
82.5°	2365.2	1835.3	662.3	570.5	397.4	329.0	314.1	309.8	297.0	279.9	282.0
85°	957.2	809.8	371.8	314.1	243.6	194.4	211.5	213.7	198.7	177.3	179.5
87.5°	420.9	344.0	207.2	138.9	106.8	74.8	96.1	96.1	87.6	72.6	66.2
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)