

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: P319723

Luminaire Tested: **GAN-SA9B-750-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319723
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-SA9B-750-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 800mA 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: 51091 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

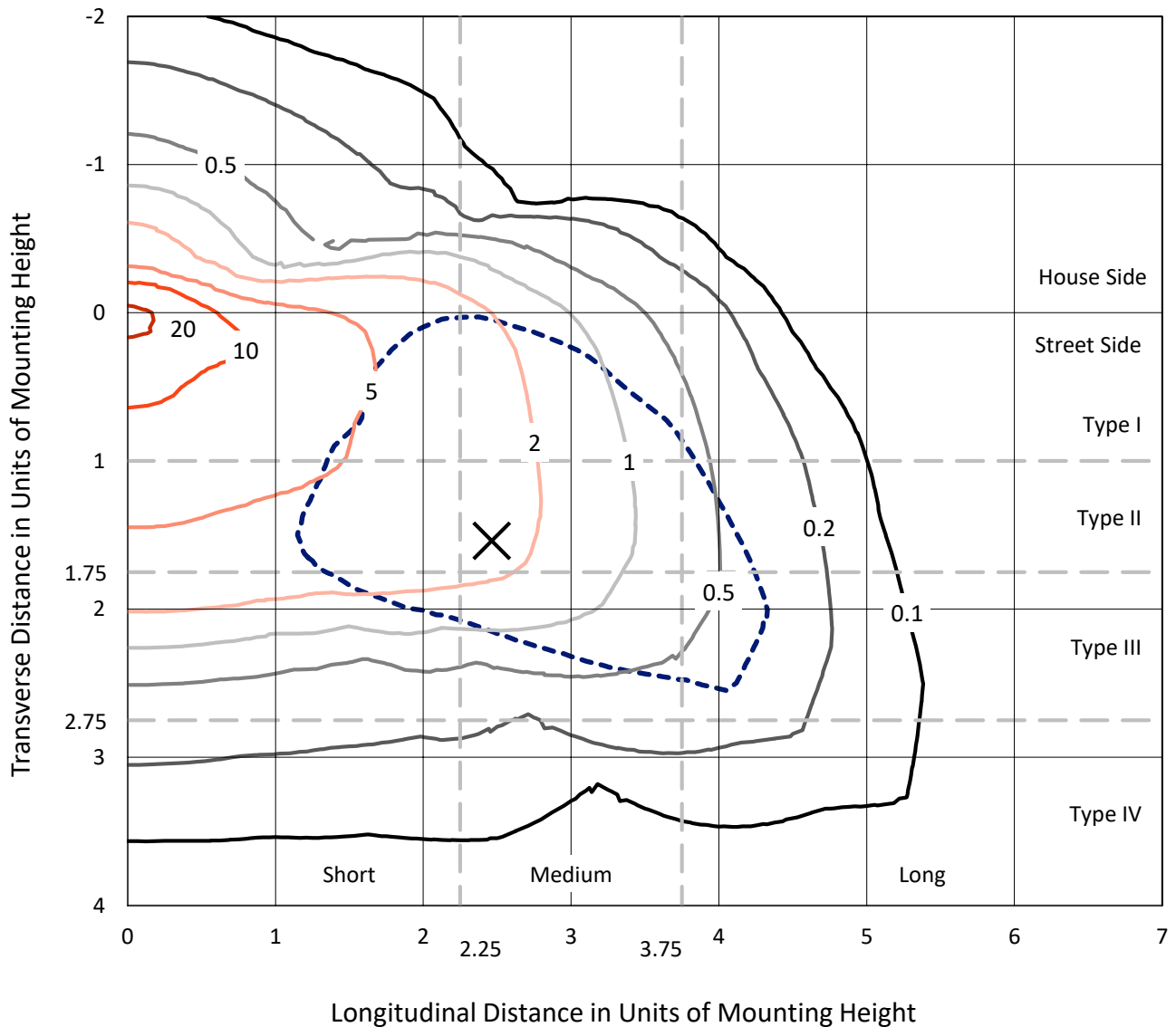
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

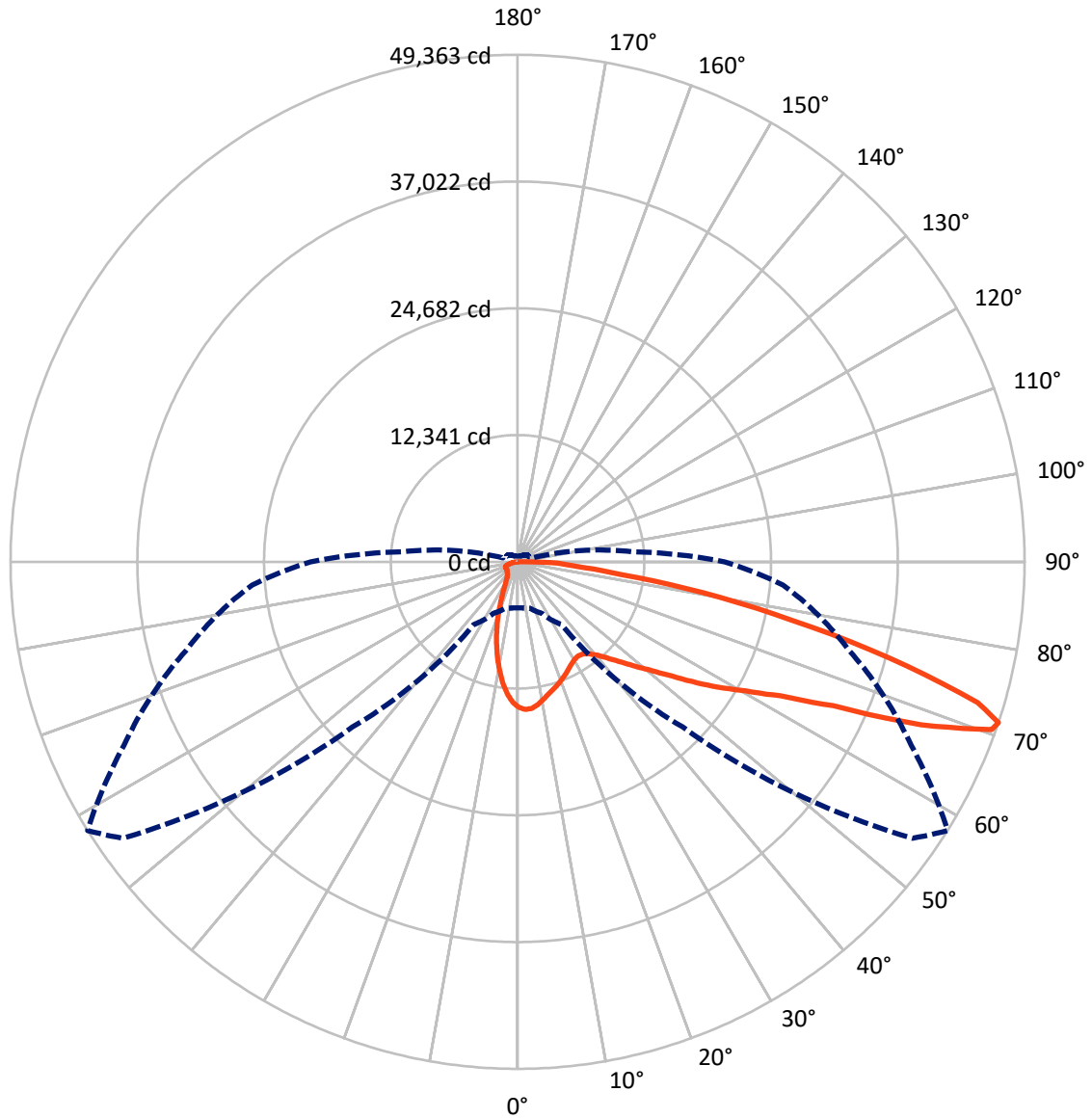
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.6 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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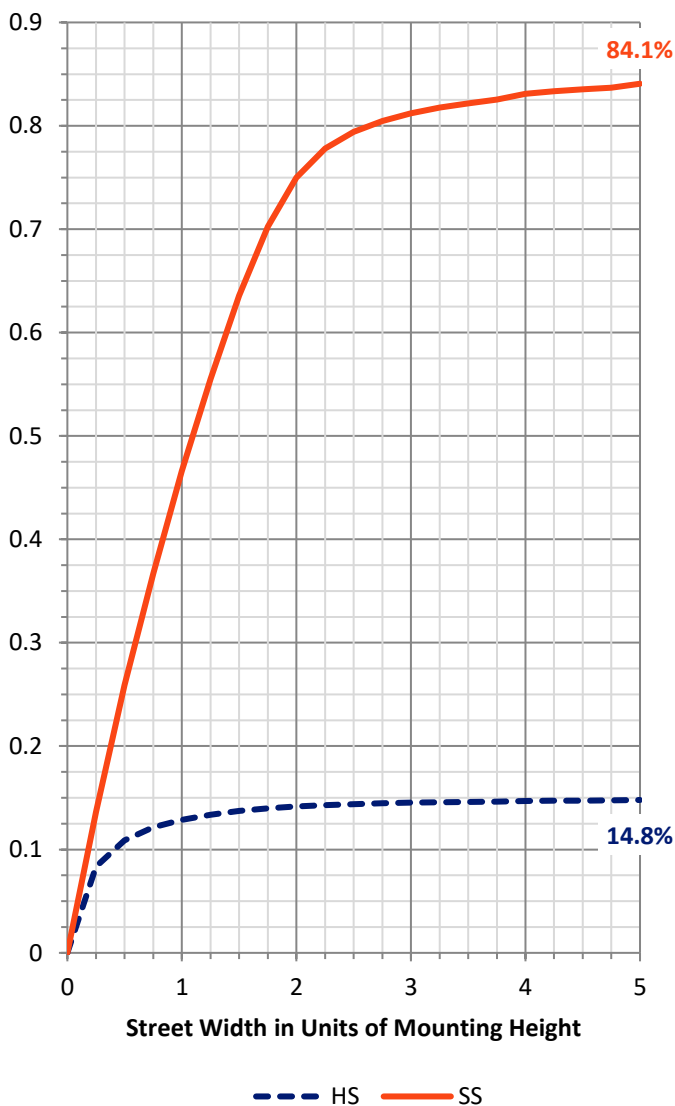
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7638.5	0.0	7638.5
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	43452.5	0.0	43452.5
	% Fixture	85.0	0.0	85.0
Total	Lumens	51091.0	0.0	51091.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1221.2	2.4
10°-20°	2715.5	5.3
20°-30°	3451.1	6.8
30°-40°	4396.0	8.6
40°-50°	6233.8	12.2
50°-60°	9647.0	18.9
60°-70°	13133.2	25.7
70°-80°	8761.4	17.1
80°-90°	1531.8	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°	51091.0	100.0
0°-180°	51091.0	100.0

Coefficient of Utilization

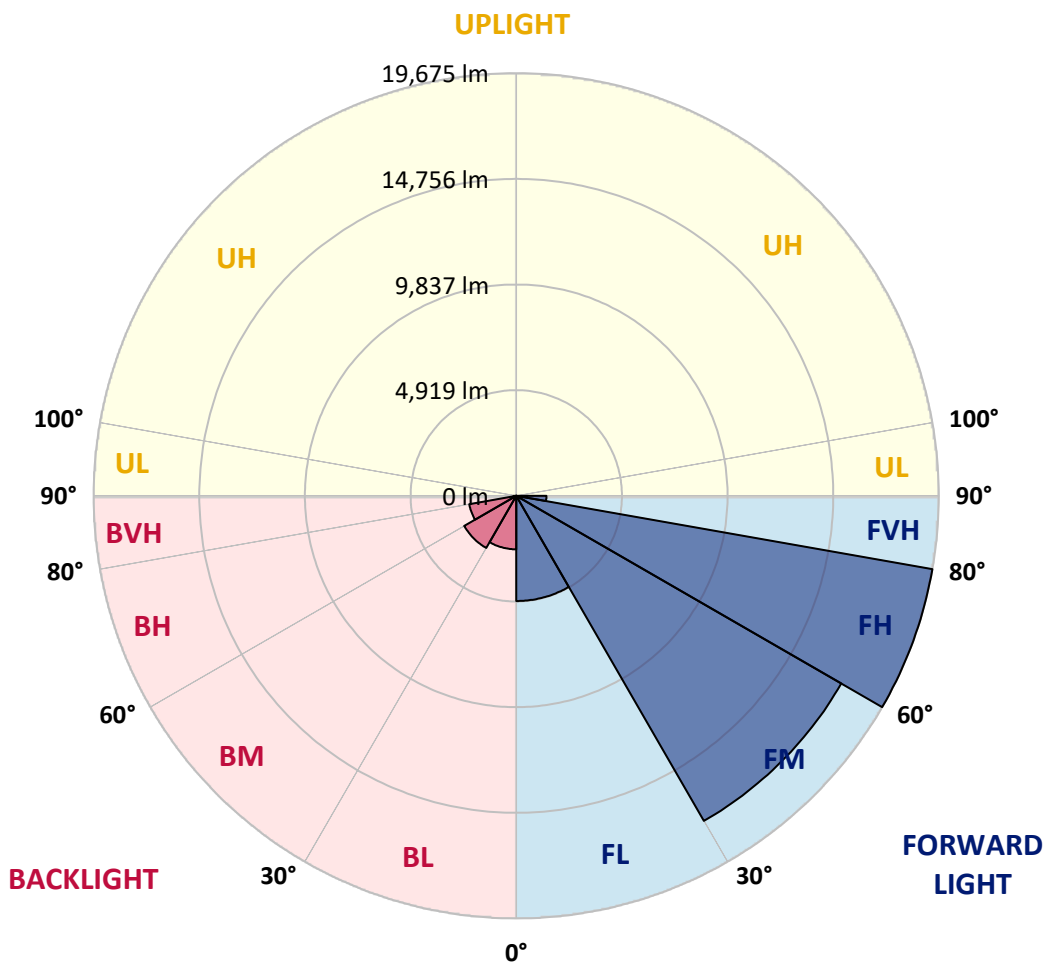


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4897.9	9.6			
FM (30°-60°)	17475.6	34.2			
FH (60°-80°)	19674.5	38.5			G5
FVH (80°-90°)	1404.5	2.7			G5
BL (0°-30°)	2489.9	4.9	B3/2500		
BM (30°-60°)	2801.2	5.5	B3/5000		
BH (60°-80°)	2220.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	127.3	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°	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6
2.5°	14531.1	14511.6	14518.7	14504.4	14470.6	14436.8	14387.0	14395.9	14326.5	14223.3	14095.1
5°	14257.1	14249.9	14303.3	14333.6	14358.5	14338.9	14324.7	14342.5	14241.0	14098.7	13876.2
7.5°	13682.2	13603.9	13671.5	13773.0	13869.1	13942.1	14038.2	14050.6	13986.6	13837.1	13545.2
10°	12865.4	12790.6	12890.3	13048.7	13240.9	13415.3	13609.3	13644.9	13657.3	13522.1	13167.9
12.5°	12018.2	11961.3	12060.9	12283.4	12602.0	12870.7	13180.4	13233.7	13344.1	13253.3	12819.1
15°	11260.1	11238.7	11359.7	11578.6	11945.3	12356.4	12803.1	12900.9	13087.8	13057.6	12546.8
17.5°	10605.1	10599.8	10692.4	10921.9	11327.7	11847.4	12427.5	12593.1	12870.7	12906.3	12322.5
20°	10117.5	10106.8	10170.9	10340.0	10758.2	11347.3	12021.8	12249.6	12650.0	12774.6	12091.2
22.5°	9855.9	9854.1	9855.9	9936.0	10277.7	10825.8	11626.7	11904.3	12434.7	12669.6	11834.9
25°	9811.4	9806.1	9766.9	9758.0	9952.0	10389.8	11235.2	11541.3	12230.0	12596.6	11591.1
27.5°	9927.1	9934.2	9882.6	9799.0	9838.1	10103.3	10895.2	11222.7	12066.3	12582.4	11422.0
30°	10167.3	10163.8	10119.3	10032.1	9955.6	9996.5	10653.2	10980.7	11955.9	12644.7	11306.3
32.5°	10432.5	10452.1	10443.2	10395.1	10281.2	10117.5	10580.2	10900.6	11923.9	12794.2	11256.5
35°	10751.1	10772.4	10836.5	10873.9	10740.4	10477.0	10736.8	11014.5	12016.4	13075.4	11336.6
37.5°	11053.6	11108.8	11288.5	11446.9	11333.0	11039.4	11153.3	11350.8	12303.0	13518.5	11551.9
40°	11402.4	11450.5	11744.1	12080.5	12062.7	11758.4	11824.2	11955.9	12808.4	14153.8	11941.7
42.5°	11745.9	11842.0	12267.4	12744.3	12881.4	12612.6	12717.6	12787.0	13520.3	14995.6	12621.5
45°	12203.3	12306.5	12897.4	13472.2	13792.6	13641.3	13808.6	13835.3	14415.5	16141.8	13609.3
47.5°	12895.6	13013.1	13701.8	14305.1	14794.5	14810.5	15086.4	15075.7	15533.1	17453.4	14853.3
50°	13974.1	14143.2	14707.3	15271.5	15865.9	16196.9	16565.3	16513.7	16873.2	18850.4	16285.9
52.5°	15387.2	15465.5	15883.7	16300.1	17038.7	17780.8	18309.4	18263.1	18393.1	20286.6	17912.5
55°	16851.8	16910.6	17083.2	17311.0	18304.1	19514.3	20631.9	20558.9	20229.7	21778.0	19519.6
57.5°	18168.8	18288.1	18407.3	18501.6	19578.3	21326.0	23007.8	23013.1	22222.9	23386.9	21180.0
60°	18373.5	18478.5	19266.9	20010.8	21758.4	23742.8	25551.0	25497.6	24285.6	25132.7	23030.9
62.5°	16241.4	16478.1	17795.1	19774.1	23858.5	28163.5	28795.3	28729.5	26752.2	27284.4	25186.1
65°	11639.1	11907.9	13497.1	16471.0	22840.5	33034.5	34650.5	33764.2	30115.8	29930.8	27709.7
67.5°	6714.8	6778.8	7467.6	9855.9	17391.1	33289.0	43582.7	42342.3	35339.2	32933.1	28944.8
70°	4965.3	4963.5	5127.3	6065.2	9411.0	27168.7	47830.8	48943.1	40838.5	33920.8	27198.9
71°	4490.1	4495.5	4678.8	5520.6	7453.3	22740.8	46928.5	49363.2	42287.1	33433.2	25935.4
72.5°	3840.6	3858.4	4112.9	4951.1	6269.8	15682.6	43041.7	46843.1	42974.1	32230.1	23958.1
75°	2913.3	2954.3	3306.7	4173.4	5730.6	7953.4	31589.4	37405.4	38176.0	28439.4	17802.2
77.5°	2078.7	2124.9	2523.6	3509.5	5447.6	5994.0	21155.1	27284.4	28094.1	18225.8	8029.9
80°	1313.4	1368.6	1669.3	2792.3	5118.4	5691.4	13294.3	18339.7	15319.5	5832.0	2043.1
82.5°	770.6	813.3	1035.8	1824.2	4180.5	5481.4	7821.7	10165.6	5961.9	1761.9	929.0
85°	446.7	466.3	646.0	1162.1	3036.1	5173.5	5746.6	5682.5	2587.7	861.4	439.6
87.5°	208.2	231.4	382.6	606.9	1685.4	3749.8	4541.8	3924.2	1608.8	404.0	206.4
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°	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6	14155.6
2.5°	14032.8	14002.6	13876.2	13764.1	13646.6	13493.6	13324.5	13303.2	13199.9	13219.5	13183.9
5°	13755.2	13678.7	13374.3	13098.5	12772.8	12480.9	12164.2	12018.2	11808.2	11794.0	11740.6
7.5°	13358.3	13215.9	12744.3	12221.1	11697.9	11199.6	10706.6	10382.7	10051.7	9911.1	9898.6
10°	12911.6	12669.6	11975.5	11201.3	10446.8	9718.9	9014.1	8492.7	8022.8	7800.4	7791.5
12.5°	12488.1	12130.3	11178.2	10124.6	9092.4	8149.2	7182.8	6497.6	5908.6	5711.0	5627.4
15°	12128.6	11624.9	10402.3	9055.0	7802.1	6492.3	5392.4	4671.7	4127.1	3938.4	3902.9
17.5°	11779.7	11131.9	9606.7	7974.8	6460.3	5020.5	3918.9	3383.2	3093.1	3016.6	3014.8
20°	11432.7	10624.7	8775.6	6869.6	5162.9	3755.1	3013.0	2772.8	2674.9	2666.0	2651.7
22.5°	11039.4	10087.3	7901.8	5760.8	4029.2	2952.5	2561.0	2464.9	2452.4	2484.4	2484.4
25°	10671.0	9553.4	7015.5	4675.2	3134.0	2463.1	2286.9	2267.3	2301.1	2358.1	2363.4
27.5°	10327.5	9039.0	6150.6	3710.6	2511.1	2169.4	2096.5	2119.6	2180.1	2246.0	2247.7
30°	10044.5	8553.2	5310.6	2924.0	2121.4	1950.5	1938.1	1984.3	2050.2	2101.8	2114.3
32.5°	9825.6	8138.5	4499.0	2351.0	1866.9	1786.8	1797.5	1836.6	1877.6	1906.0	1925.6
35°	9724.2	7782.6	3749.8	1982.6	1704.9	1660.4	1674.7	1696.0	1713.8	1735.2	1751.2
37.5°	9742.0	7506.7	3080.6	1753.0	1596.4	1573.2	1573.2	1573.2	1573.2	1583.9	1585.7
40°	9907.5	7348.3	2536.1	1607.1	1523.4	1498.5	1478.9	1461.1	1446.9	1454.0	1450.4
42.5°	10331.1	7334.1	2137.4	1514.5	1464.7	1423.7	1384.6	1359.7	1341.9	1349.0	1352.6
45°	11050.1	7512.1	1868.7	1448.7	1409.5	1347.2	1297.4	1270.7	1258.2	1281.4	1284.9
47.5°	11980.8	7900.0	1704.9	1400.6	1357.9	1276.0	1222.6	1197.7	1201.3	1235.1	1244.0
50°	13180.4	8530.0	1626.6	1370.4	1322.3	1215.5	1160.4	1139.0	1149.7	1197.7	1208.4
52.5°	14497.3	9437.7	1635.5	1361.5	1299.2	1171.0	1112.3	1087.4	1105.2	1149.7	1158.6
55°	16017.2	10528.6	1783.2	1373.9	1265.4	1142.6	1073.2	1030.4	1044.7	1085.6	1092.7
57.5°	17706.1	11778.0	2080.5	1370.4	1222.6	1115.9	1032.2	968.1	978.8	1003.7	1010.9
60°	19464.4	13287.1	2541.4	1381.0	1203.1	1083.8	977.0	897.0	893.4	914.8	918.3
62.5°	21575.1	15033.0	3068.2	1388.2	1215.5	1042.9	904.1	825.8	815.1	820.4	824.0
65°	23749.9	16296.6	2870.6	1359.7	1254.7	1009.1	840.0	756.4	736.8	733.2	735.0
67.5°	23817.5	14942.2	2012.8	1302.7	1270.7	991.3	792.0	697.6	665.6	653.1	651.4
70°	21359.8	12139.2	1567.9	1242.2	1206.6	962.8	747.5	649.6	601.5	582.0	580.2
71°	20160.3	11174.6	1486.0	1212.0	1158.6	934.3	727.9	628.2	578.4	557.0	553.5
72.5°	18279.2	10017.9	1386.4	1163.9	1066.0	861.4	690.5	598.0	546.4	521.4	516.1
75°	13118.1	6551.0	1190.6	1037.6	882.7	687.0	605.1	537.5	493.0	462.7	459.2
77.5°	5054.3	2607.2	900.5	863.1	676.3	537.5	498.3	464.5	432.5	402.2	400.4
80°	1562.6	1165.7	656.7	649.6	489.4	400.4	388.0	379.1	366.6	334.6	327.5
82.5°	834.7	669.2	452.0	420.0	320.3	267.0	281.2	284.7	286.5	252.7	249.2
85°	398.6	354.2	254.5	238.5	186.9	149.5	172.6	186.9	188.6	154.8	144.2
87.5°	190.4	185.1	119.2	90.8	69.4	49.8	60.5	74.7	81.9	58.7	51.6
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)