

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: McGRAW-EDISON

Report Number: P451404

Luminaire Tested: **GALN-SA2B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7504 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

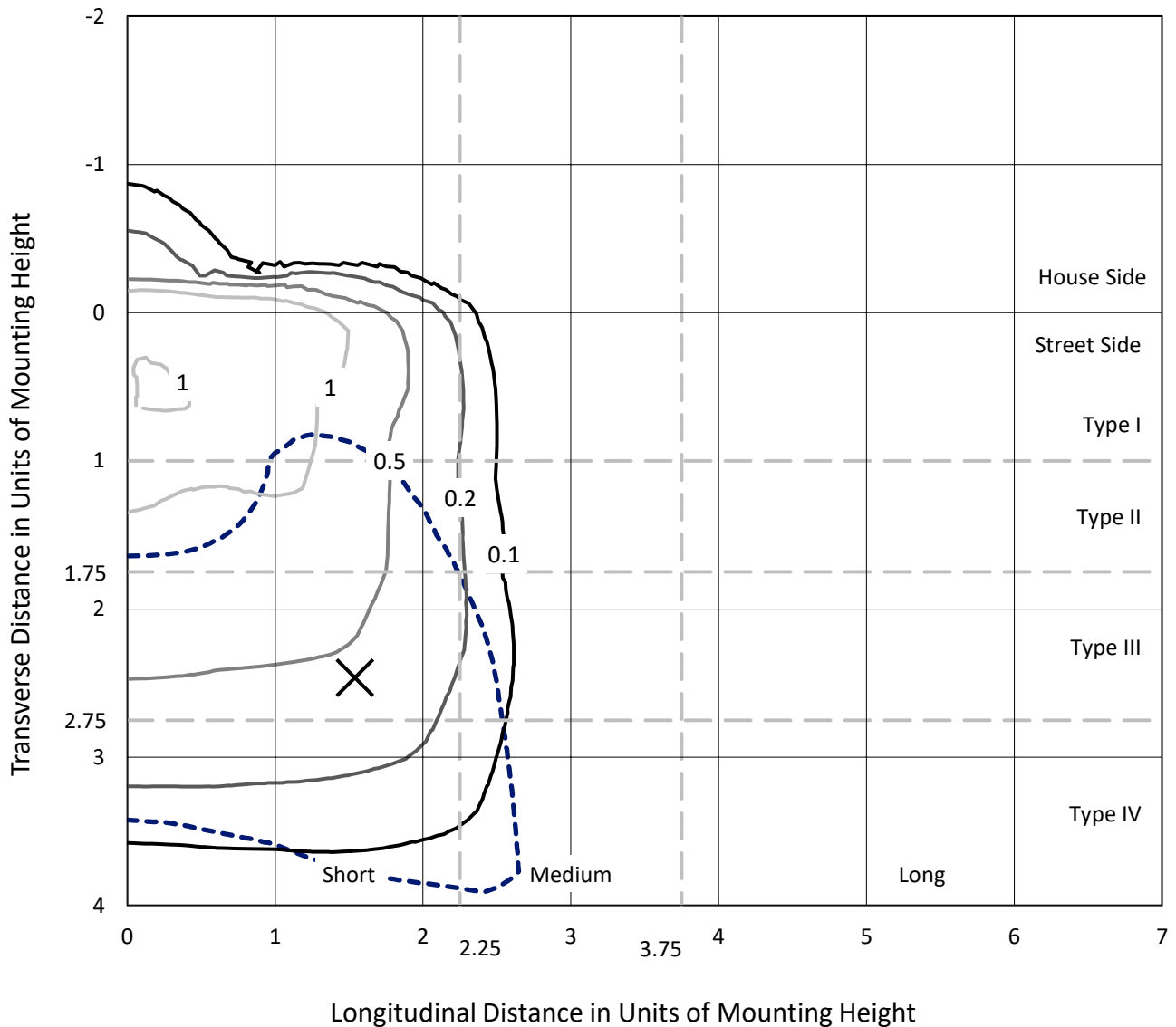
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P451404
 CATALOG NUMBER: GALN-SA2B-730-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

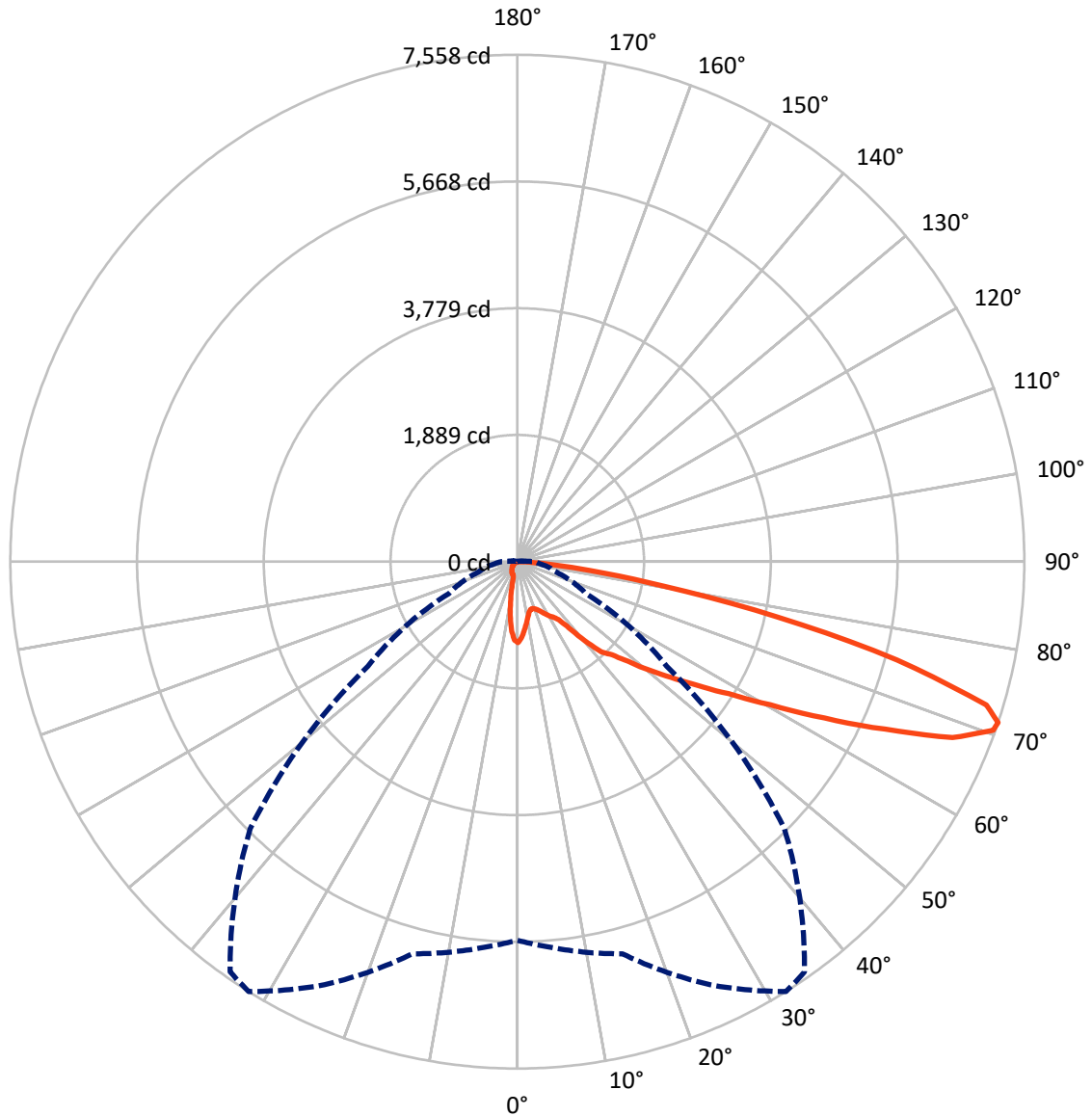
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P451404
CATALOG NUMBER: GALN-SA2B-730-U-T4FT-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P451404
 CATALOG NUMBER: GALN-SA2B-730-U-T4FT-HSS

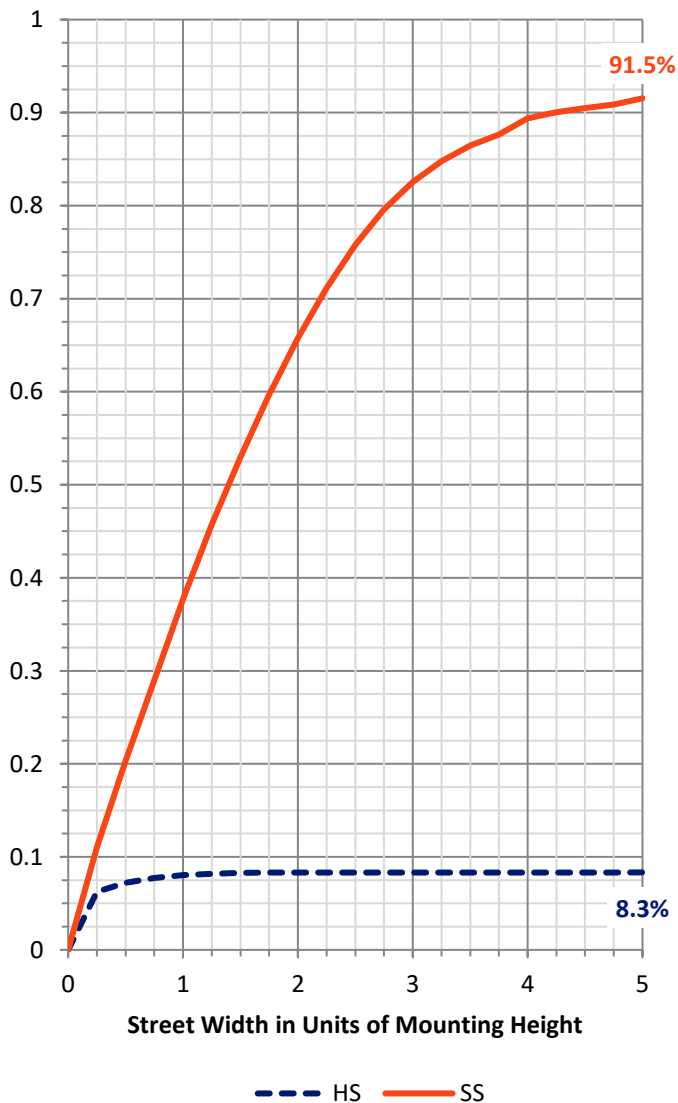
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.5	0.0	628.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6875.5	0.0	6875.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	7504.0	0.0	7504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	1.3
10°-20°	213.0	2.8
20°-30°	331.3	4.4
30°-40°	552.0	7.4
40°-50°	1026.7	13.7
50°-60°	1648.5	22.0
60°-70°	2217.2	29.5
70°-80°	1315.5	17.5
80°-90°	101.7	1.4
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°	7504.0	100.0
0°-180°	7504.0	100.0

Coefficient of Utilization



REPORT NUMBER: P451404

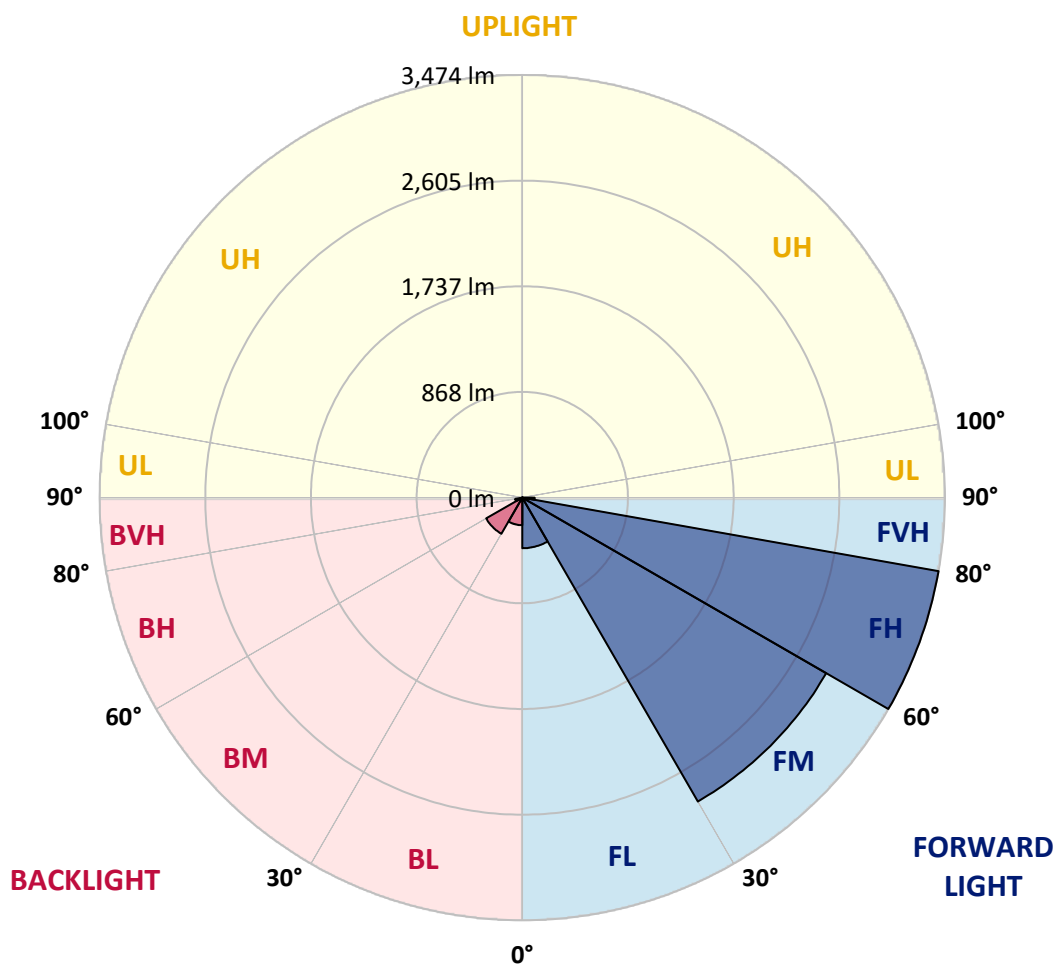
CATALOG NUMBER: GALN-SA2B-730-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.9	5.5			
FM (30°-60°)	2884.3	38.4			
FH (60°-80°)	3474.0	46.3			G2/5000
FVH (80°-90°)	101.3	1.3			G2/225
BL (0°-30°)	226.5	3.0	B1/500		
BM (30°-60°)	342.9	4.6	B1/1000		
BH (60°-80°)	58.8	0.8	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P451404

CATALOG NUMBER: GALN-SA2B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8
2.5°	1119.2	1130.7	1129.0	1133.0	1142.8	1146.9	1157.8	1169.9	1186.6	1198.1	1205.6
5°	1002.3	1010.9	1012.1	1032.2	1042.0	1053.0	1085.2	1120.4	1159.5	1190.6	1211.4
7.5°	877.3	881.9	891.1	917.6	942.4	953.3	1002.3	1063.3	1125.0	1183.1	1220.6
10°	774.2	779.4	796.1	824.3	847.3	861.7	929.7	1006.3	1092.7	1179.1	1233.8
12.5°	715.4	718.3	724.6	750.0	779.4	794.9	868.1	955.6	1066.8	1180.8	1256.3
15°	711.4	710.2	702.7	713.1	739.6	755.7	827.2	921.1	1043.7	1186.6	1282.8
17.5°	732.7	729.8	712.0	712.0	733.8	747.1	809.9	902.6	1032.2	1199.8	1320.2
20°	765.5	760.9	731.5	729.2	750.6	764.4	820.3	903.8	1034.5	1224.6	1370.3
22.5°	807.0	801.8	757.5	758.6	781.7	795.5	850.2	924.5	1048.9	1255.1	1423.9
25°	861.1	855.4	803.0	800.7	824.9	837.0	894.6	961.4	1069.1	1293.2	1494.2
27.5°	933.2	921.1	858.3	854.8	880.7	896.3	948.1	1010.9	1104.8	1345.6	1588.7
30°	992.5	979.2	919.3	910.1	937.8	949.9	1003.4	1077.7	1175.1	1437.2	1719.4
32.5°	1070.2	1050.7	980.4	956.2	985.6	1001.1	1083.5	1202.2	1279.3	1533.9	1874.9
35°	1245.4	1233.3	1147.4	1062.8	1061.0	1080.6	1201.6	1327.7	1386.5	1684.9	2086.9
37.5°	1495.9	1487.3	1396.3	1282.8	1250.0	1240.7	1345.0	1466.0	1557.6	1892.2	2333.5
40°	1786.8	1766.7	1683.1	1586.9	1544.3	1517.2	1514.4	1671.6	1781.1	2173.9	2590.4
42.5°	1995.3	1958.5	1857.1	1850.2	1841.0	1812.7	1730.9	1972.3	2069.6	2476.9	2865.1
45°	2214.2	2158.3	2007.4	1981.5	1978.1	1976.3	2058.1	2328.3	2384.1	2805.2	3147.4
47.5°	2384.1	2339.8	2215.9	2204.4	2218.8	2258.0	2490.7	2706.1	2694.6	3097.8	3384.1
50°	2610.5	2577.1	2439.4	2461.3	2535.6	2599.6	2978.6	3118.0	2949.8	3328.2	3556.3
52.5°	2877.8	2816.2	2688.3	2747.6	2861.7	2968.2	3496.4	3478.6	3128.9	3501.6	3684.8
55°	3109.4	3065.6	3021.8	3083.4	3253.9	3387.0	3964.2	3748.7	3259.1	3641.0	3741.2
57.5°	3501.0	3490.7	3445.7	3508.5	3715.3	3853.6	4382.9	3958.4	3342.6	3713.6	3675.0
60°	4080.5	4063.8	3980.3	4060.4	4329.9	4547.1	4768.9	4146.8	3361.6	3685.4	3484.3
62.5°	4777.5	4720.5	4649.1	4767.1	5136.9	5232.6	5132.3	4258.5	3290.8	3460.7	3024.7
65°	5428.4	5369.7	5371.4	5620.2	6022.9	6087.9	5556.3	4241.8	3083.4	2898.0	2230.9
67.5°	5926.7	5916.9	5987.1	6472.7	6999.2	6954.3	5935.3	3991.8	2468.8	1878.4	1185.4
70°	5952.0	5971.0	6172.6	6992.3	7526.8	7455.4	5903.0	3244.7	1539.1	864.0	467.2
71°	5645.6	5773.4	6052.2	6976.2	7557.9	7465.2	5631.2	2717.7	1129.0	602.5	337.0
72.5°	4810.9	4878.3	5480.8	6565.5	7312.0	7113.8	4941.7	1904.9	722.9	368.7	193.5
75°	2649.7	2815.6	3670.4	5150.8	5848.3	5674.4	3220.5	904.9	360.6	201.6	80.1
77.5°	1261.5	1229.2	1790.8	3063.3	3965.3	3956.1	1622.6	402.1	210.2	136.5	40.3
80°	360.6	405.5	685.5	1456.2	2201.5	2225.7	623.3	194.1	145.7	106.6	20.7
82.5°	108.9	111.2	251.7	644.0	1095.0	1032.2	233.9	99.1	104.8	84.7	12.1
85°	19.0	23.6	74.3	227.0	417.6	316.8	58.8	47.2	69.1	55.9	6.9
87.5°	1.2	1.7	24.8	25.9	36.9	21.3	10.4	6.9	15.0	15.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P451404
 CATALOG NUMBER: GALN-SA2B-730-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8	1206.8
2.5°	1210.8	1214.2	1211.9	1206.8	1198.1	1187.8	1173.9	1162.4	1152.6	1147.4	1153.8
5°	1218.3	1222.9	1211.4	1185.4	1146.3	1103.7	1055.3	1017.8	988.4	979.2	975.8
7.5°	1229.8	1232.7	1201.6	1144.0	1061.0	960.2	872.1	797.8	740.2	722.9	697.6
10°	1244.8	1243.0	1184.3	1077.2	931.4	779.9	643.4	542.0	465.4	437.8	435.5
12.5°	1267.8	1258.6	1162.4	986.1	777.1	578.9	410.1	320.8	272.5	256.3	252.9
15°	1296.6	1274.7	1127.8	879.6	595.0	373.8	252.9	225.8	219.5	218.3	217.2
17.5°	1330.6	1296.0	1082.3	748.8	418.2	242.5	211.4	210.8	211.4	210.2	209.7
20°	1376.7	1318.5	1028.2	593.9	276.5	204.5	201.6	201.6	202.2	201.6	201.6
22.5°	1425.6	1345.0	961.4	453.3	208.5	194.1	193.5	194.7	195.8	195.3	195.3
25°	1486.1	1379.6	873.2	310.5	186.6	185.5	186.1	188.4	190.7	191.2	190.7
27.5°	1573.7	1422.2	778.8	213.7	171.1	172.2	178.0	183.8	187.2	187.8	187.8
30°	1672.2	1469.4	655.5	173.4	158.4	158.4	165.3	176.3	183.8	184.9	185.5
32.5°	1798.9	1524.1	519.0	156.1	146.3	145.2	151.5	164.7	178.6	182.6	182.6
35°	1955.6	1588.7	385.9	145.2	137.7	134.8	138.2	149.2	167.0	178.6	179.7
37.5°	2139.3	1649.7	282.2	135.4	129.6	125.6	127.9	136.5	150.9	168.2	172.8
40°	2309.3	1703.9	210.8	127.3	121.5	118.7	120.4	124.4	136.5	152.6	155.5
42.5°	2494.7	1745.9	167.6	118.7	113.5	112.3	112.3	114.1	122.1	131.3	131.9
45°	2679.6	1760.9	140.5	108.3	104.8	106.0	105.4	104.3	107.7	106.6	106.6
47.5°	2811.6	1743.0	116.4	98.5	98.5	100.2	97.3	93.3	91.6	84.7	85.3
50°	2902.0	1677.9	95.6	87.0	91.6	93.9	88.1	81.8	75.5	68.0	66.2
52.5°	2939.4	1562.2	78.3	72.0	81.2	84.1	77.2	69.7	59.9	53.6	51.8
55°	2915.2	1419.3	65.1	58.8	68.5	72.0	65.1	56.4	45.5	38.6	37.4
57.5°	2808.7	1248.8	55.3	46.7	54.7	57.0	52.4	43.2	32.3	25.3	25.3
60°	2624.3	1072.5	44.9	36.9	40.9	44.4	39.7	31.1	21.9	15.6	14.4
62.5°	2250.5	870.9	36.3	28.8	28.8	31.7	27.6	22.5	13.8	8.1	7.5
65°	1625.0	597.3	28.8	21.3	20.7	20.7	17.3	15.0	8.1	3.5	2.3
67.5°	883.0	337.0	23.0	16.1	14.4	13.8	10.9	8.6	3.5	0.6	0.0
70°	347.3	129.6	17.9	10.9	9.2	8.6	5.8	4.0	2.3	0.0	0.0
71°	235.6	89.3	15.6	9.2	7.5	6.3	4.6	3.5	1.7	0.0	0.0
72.5°	134.8	55.3	12.1	6.9	5.8	4.6	3.5	2.3	1.7	0.0	0.0
75°	58.8	28.2	7.5	5.2	4.0	2.9	2.3	1.7	0.6	0.0	0.0
77.5°	30.0	15.6	5.2	4.0	2.3	1.7	1.2	0.6	0.0	0.0	0.0
80°	16.7	8.1	3.5	2.3	1.7	1.2	0.6	0.6	0.0	0.0	0.0
82.5°	9.2	4.6	1.7	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.8	2.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	1.2	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0	0.0
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)