

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: P269179

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12517.8 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 124
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: 25 FT

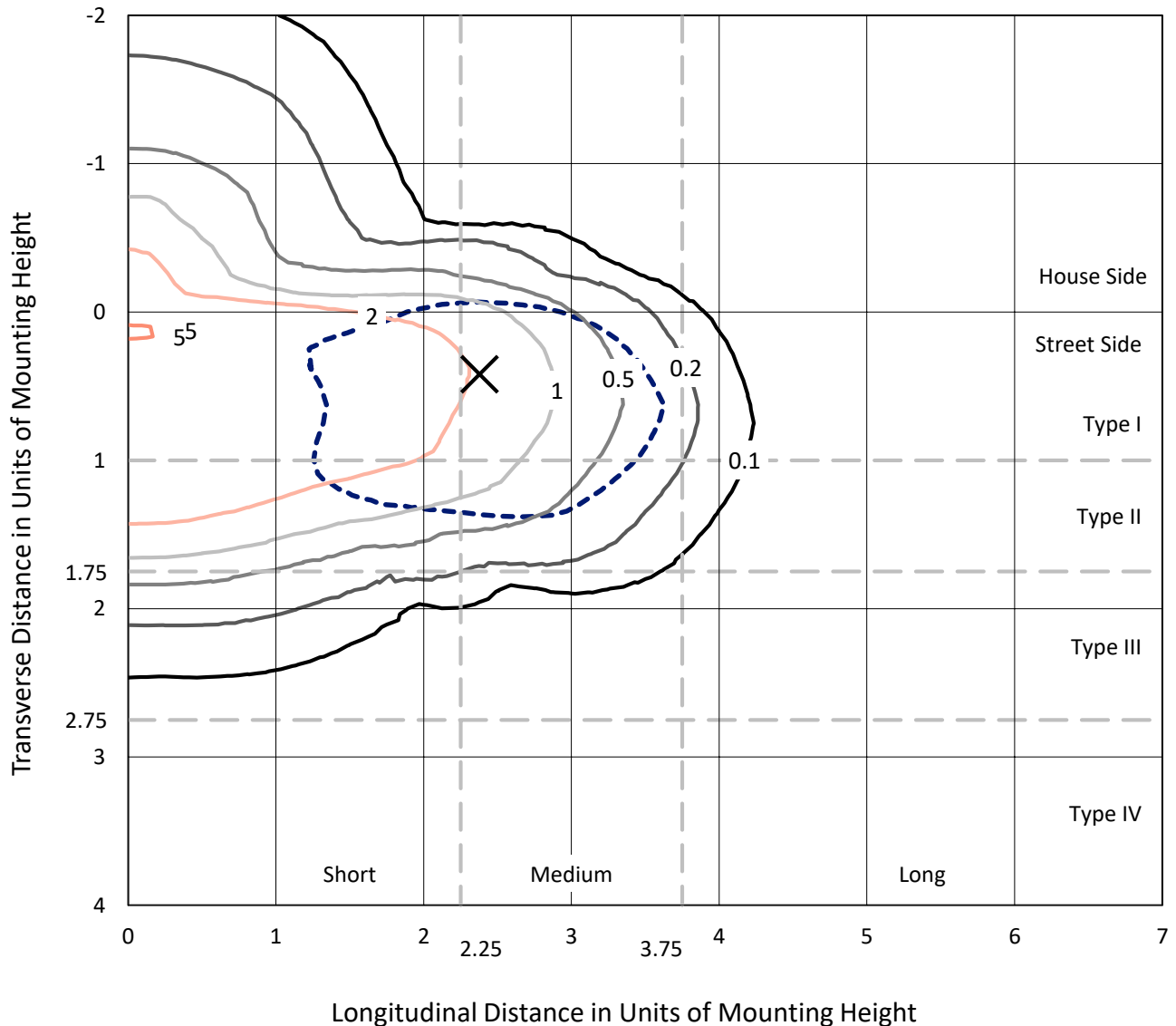


REPORT NUMBER: P269179

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-800

Iso-Footcandle Lines of Horizontal Illumination

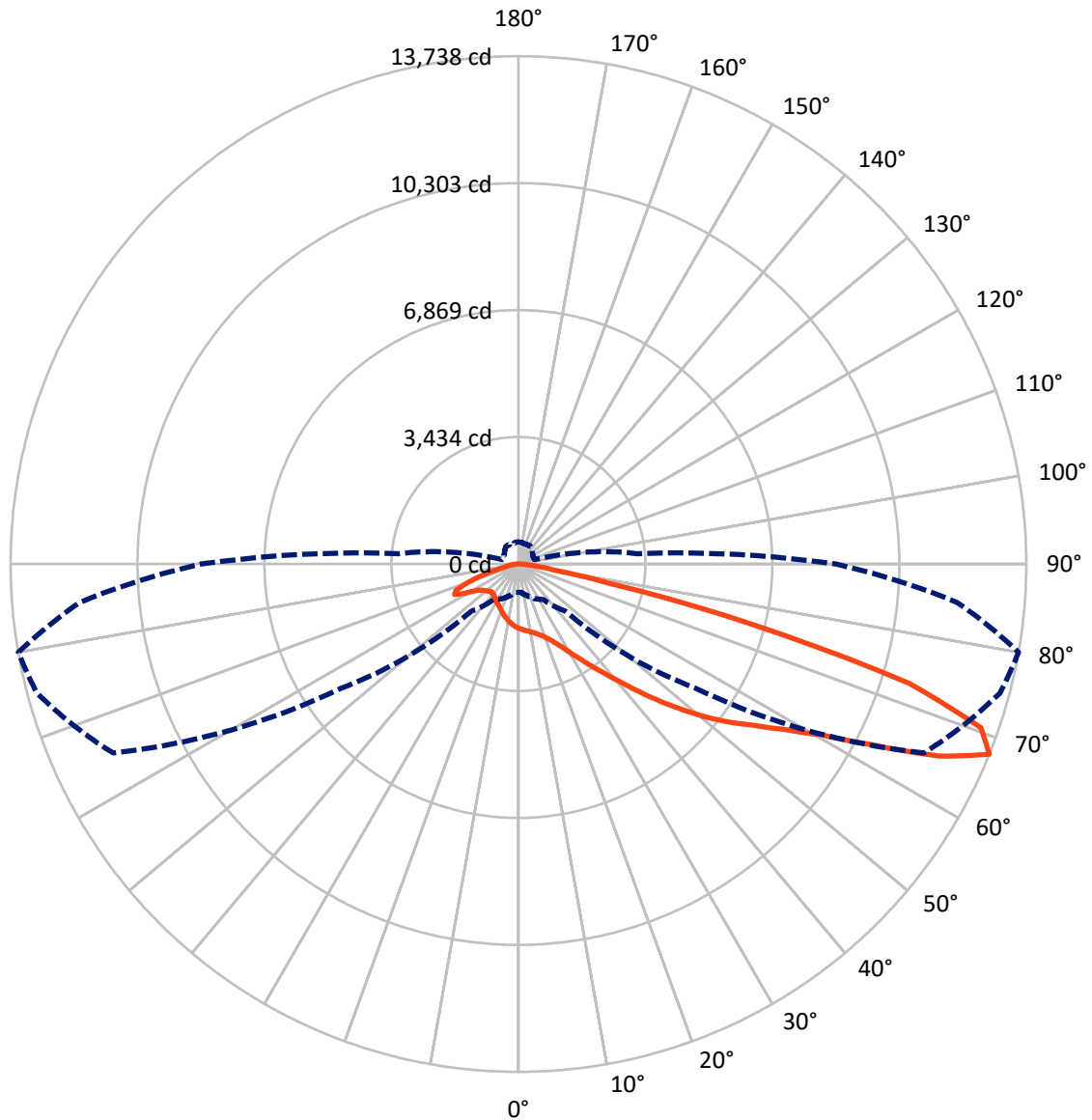
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P269179
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-800

Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P269179

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-800

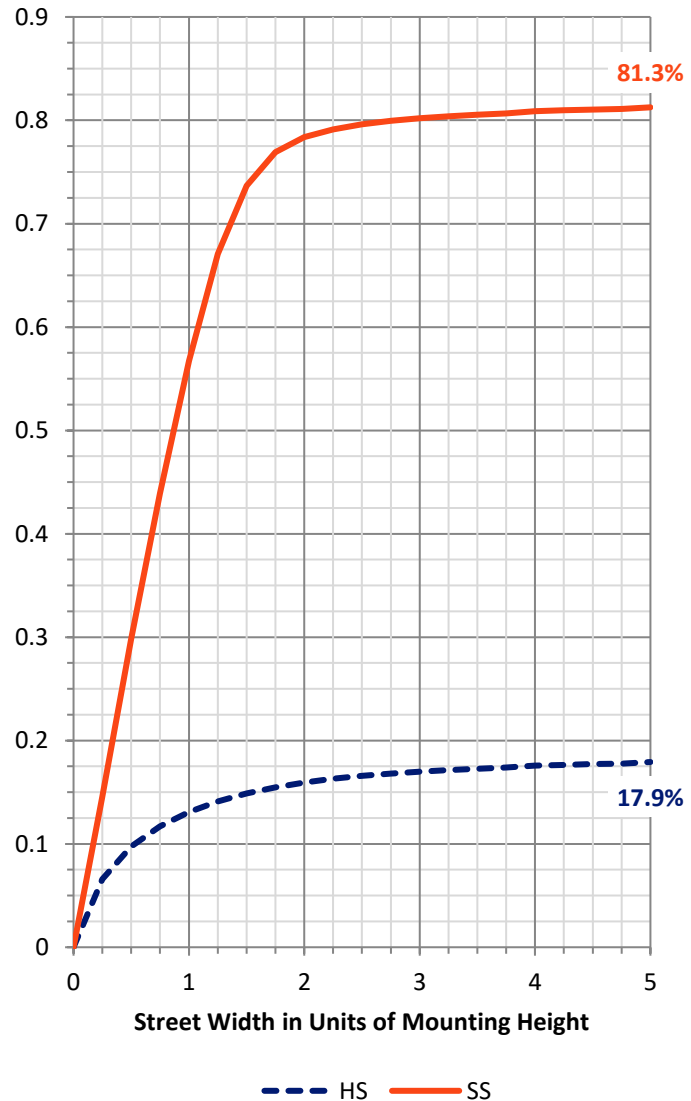
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2305.3	0.0	2305.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	10212.5	0.0	10212.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	12517.8	0.0	12517.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	1.3
10°-20°	462.1	3.7
20°-30°	764.9	6.1
30°-40°	1251.2	10.0
40°-50°	2020.2	16.1
50°-60°	2916.6	23.3
60°-70°	3218.7	25.7
70°-80°	1483.6	11.9
80°-90°	240.0	1.9
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°	12517.8	100.0
0°-180°	12517.8	100.0



REPORT NUMBER: P269179

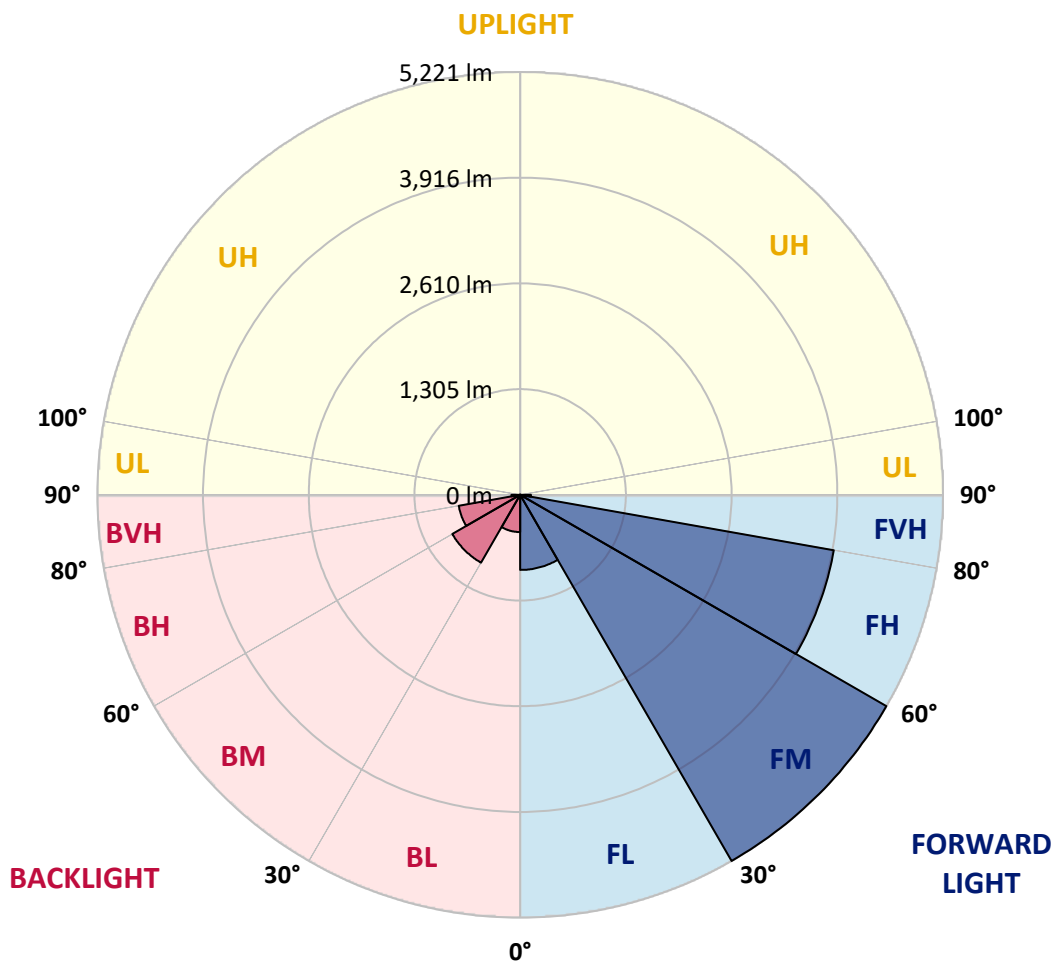
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	927.5	7.4			
FM (30°-60°)	5220.8	41.7			
FH (60°-80°)	3932.2	31.4			G2/5000
FVH (80°-90°)	131.9	1.1			G2/225
BL (0°-30°)	459.9	3.7	B1/500		
BM (30°-60°)	967.2	7.7	B1/1000		
BH (60°-80°)	770.1	6.2	B2/1000		G2/1000
BVH (80°-90°)	108.0	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





REPORT NUMBER: P269179

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1
2.5°	1902.4	1891.3	1893.2	1890.0	1880.8	1864.8	1847.5	1816.2	1783.5	1766.2	1752.7
5°	2061.4	2058.2	2054.1	2044.2	2020.6	1987.4	1946.2	1890.8	1830.9	1799.5	1769.3
7.5°	2180.4	2178.5	2172.9	2166.8	2144.0	2103.9	2041.7	1962.7	1875.9	1832.7	1785.9
10°	2190.2	2193.3	2197.7	2214.2	2217.2	2195.7	2132.2	2036.7	1922.7	1867.2	1807.5
12.5°	2106.3	2113.2	2129.8	2172.3	2217.2	2243.7	2211.2	2114.4	1977.6	1910.4	1834.6
15°	1995.4	1999.2	2019.5	2078.0	2158.7	2240.7	2271.5	2200.0	2048.4	1965.9	1875.3
17.5°	1948.1	1949.9	1964.1	2002.9	2078.0	2195.1	2305.4	2293.2	2135.4	2034.9	1925.2
20°	1924.0	1928.3	1948.7	1986.8	2034.3	2136.6	2310.4	2393.5	2238.8	2121.2	1988.0
22.5°	1992.4	1990.6	1997.9	2017.1	2057.1	2118.7	2306.7	2497.1	2370.7	2232.1	2070.1
25°	2152.0	2158.7	2145.8	2124.2	2137.2	2180.4	2326.4	2609.2	2535.9	2374.5	2177.2
27.5°	2379.4	2372.7	2353.5	2303.0	2276.5	2295.0	2391.6	2729.9	2741.1	2561.7	2319.0
30°	2606.2	2600.7	2582.2	2520.6	2466.2	2450.8	2518.7	2868.6	2985.7	2786.7	2492.7
32.5°	2841.6	2835.4	2818.2	2756.4	2691.2	2655.5	2699.2	3028.9	3274.2	3055.4	2697.4
35°	3131.9	3120.2	3083.8	2998.2	2934.0	2906.2	2926.6	3230.5	3607.0	3373.4	2945.7
37.5°	3404.8	3422.7	3385.7	3267.4	3184.2	3174.4	3197.2	3476.4	3965.7	3729.0	3231.1
40°	3679.1	3682.2	3648.8	3552.1	3466.5	3450.4	3507.7	3774.6	4388.9	4154.2	3577.9
42.5°	3962.6	3968.7	3912.7	3823.2	3760.5	3763.4	3828.8	4123.9	4874.7	4655.2	3977.3
45°	4298.4	4307.6	4246.1	4129.0	4071.7	4186.9	4159.7	4516.0	5407.1	5224.6	4435.8
47.5°	4649.6	4663.9	4617.0	4507.3	4435.8	4594.2	4490.6	4950.4	5980.1	5835.4	4939.3
50°	4841.3	4861.6	4907.4	4899.3	4883.8	4857.3	4859.8	5416.3	6571.2	6471.4	5457.1
52.5°	4738.4	4737.8	4904.1	5106.3	5322.0	5338.1	5309.7	5907.4	7123.4	7093.1	5944.4
55°	4267.6	4299.6	4551.7	4943.1	5532.2	5900.1	5983.9	6470.1	7665.6	7700.8	6439.3
57.5°	3483.7	3510.2	3850.3	4395.8	5248.6	6234.1	6942.8	7287.9	8272.0	8436.1	7098.0
60°	2362.7	2394.8	2755.3	3410.3	4485.7	6048.0	7855.5	8747.2	8998.1	9370.8	8022.6
62.5°	1388.4	1417.3	1711.4	2151.4	3158.4	5183.4	8256.1	10823.4	10151.0	10781.5	9432.6
65°	955.8	975.5	1118.5	1339.2	1814.8	3491.2	7759.3	12256.8	11925.3	12529.2	11067.5
67.5°	769.0	766.7	880.0	1030.4	1168.4	1800.2	5867.4	12094.7	13485.6	13737.7	11916.0
70°	633.6	631.1	708.0	832.5	933.7	1013.7	3195.9	10206.5	13167.6	13269.9	11134.6
72.5°	530.0	532.4	581.7	674.2	766.1	763.6	1404.5	7180.1	10358.7	11066.2	8876.1
75°	447.4	448.7	481.3	546.6	621.7	615.0	761.8	3889.8	6021.5	6513.9	4920.2
77.5°	380.8	382.0	403.0	439.5	493.0	490.6	556.0	1680.5	2511.9	2481.1	1683.1
80°	339.6	339.6	349.4	356.2	385.8	374.8	412.3	807.2	1061.8	980.5	671.8
82.5°	266.2	267.4	327.8	325.4	303.7	289.7	289.7	475.7	562.7	520.1	393.2
85°	149.7	149.1	211.5	255.1	267.4	203.9	202.1	266.2	306.3	269.9	190.4
87.5°	64.0	65.3	97.9	113.4	151.6	126.9	125.1	137.4	155.9	134.9	88.2
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: P269179

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1	1739.1
2.5°	1739.7	1723.7	1688.5	1644.7	1605.4	1579.5	1556.0	1522.2	1524.1	1500.6	1483.3
5°	1738.5	1705.3	1623.9	1527.1	1434.1	1367.0	1316.3	1270.7	1259.7	1238.0	1225.1
7.5°	1739.7	1685.5	1548.7	1394.0	1278.7	1193.7	1150.5	1126.6	1120.9	1113.5	1114.2
10°	1744.0	1667.7	1466.0	1269.6	1148.8	1092.6	1082.2	1089.6	1098.2	1100.7	1101.2
12.5°	1753.9	1651.5	1375.5	1158.5	1067.4	1050.1	1067.9	1093.2	1109.9	1117.9	1117.3
15°	1776.0	1639.2	1288.6	1071.7	1022.5	1031.7	1064.9	1100.7	1124.7	1135.7	1136.4
17.5°	1800.2	1621.4	1199.2	1005.2	989.2	1012.5	1053.8	1095.8	1125.2	1137.7	1140.0
20°	1831.6	1599.3	1105.5	955.2	957.7	984.2	1023.0	1064.9	1097.5	1108.0	1113.0
22.5°	1872.8	1575.2	1023.6	914.6	921.9	942.2	972.4	1008.8	1037.2	1042.2	1046.4
25°	1928.3	1549.2	958.3	877.6	880.7	892.3	912.7	934.2	954.0	948.4	952.7
27.5°	2002.9	1527.1	909.7	843.7	838.1	840.5	851.1	857.8	868.3	852.9	854.7
30°	2090.4	1503.0	872.1	814.0	798.7	794.3	796.8	800.5	808.6	787.5	784.5
32.5°	2192.0	1474.1	837.0	788.3	766.7	758.0	759.2	769.0	799.9	786.9	780.2
35°	2310.4	1441.4	799.9	759.8	745.1	732.7	731.5	762.3	854.2	846.2	839.9
37.5°	2449.0	1408.8	762.9	727.7	729.1	715.5	711.2	746.3	864.6	833.2	828.9
40°	2625.2	1391.6	731.5	693.9	709.3	707.4	698.8	716.7	795.5	738.2	731.0
42.5°	2843.4	1394.0	708.0	657.6	685.9	705.6	692.1	692.7	721.0	678.0	671.2
45°	3112.7	1422.9	691.4	628.5	659.4	703.7	689.5	679.7	682.3	659.4	655.8
47.5°	3427.0	1482.7	679.7	604.6	634.2	696.9	689.0	676.1	670.5	658.2	655.0
50°	3776.5	1569.6	671.2	581.7	611.3	685.9	689.5	672.3	666.2	661.2	659.4
52.5°	4119.6	1668.8	658.2	562.0	593.5	672.3	691.4	668.7	662.0	658.2	656.3
55°	4502.5	1792.7	638.4	545.5	578.7	655.0	691.4	663.0	655.8	656.3	655.8
57.5°	5019.5	1993.0	615.0	531.2	560.8	634.2	679.7	656.9	647.7	648.2	648.9
60°	5827.3	2346.2	586.7	517.1	538.7	609.5	663.7	643.4	634.2	636.5	637.2
62.5°	7015.6	2864.3	549.8	496.1	515.2	583.0	641.5	626.1	616.9	623.1	623.1
65°	8250.6	3321.7	504.0	469.6	490.6	554.1	613.8	604.6	595.2	609.5	609.0
67.5°	8582.6	3219.3	458.5	440.6	466.0	521.9	580.6	575.5	570.7	595.2	594.0
70°	7624.4	2584.7	416.6	411.1	438.8	487.5	544.8	544.8	541.7	560.3	556.0
72.5°	5808.9	1832.7	376.5	379.7	408.0	450.0	505.9	510.2	505.3	514.5	510.9
75°	3109.7	1049.0	336.4	345.0	369.7	411.7	462.7	467.1	464.1	463.4	465.3
77.5°	1033.5	512.8	294.6	308.1	329.7	372.2	417.8	424.5	417.3	415.9	415.3
80°	460.3	322.3	248.3	266.2	285.3	327.3	370.5	375.9	367.9	379.1	364.8
82.5°	295.8	212.0	199.1	218.7	237.2	282.2	322.9	324.2	316.7	367.9	313.7
85°	143.5	131.2	149.7	167.7	183.7	221.8	267.4	268.1	249.5	227.5	219.4
87.5°	71.4	76.4	99.8	115.8	123.8	152.3	194.8	191.0	183.1	166.4	153.4
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)