

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: P383379

Luminaire Tested: **GLEON-SA6D-735-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383379
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43490.2 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

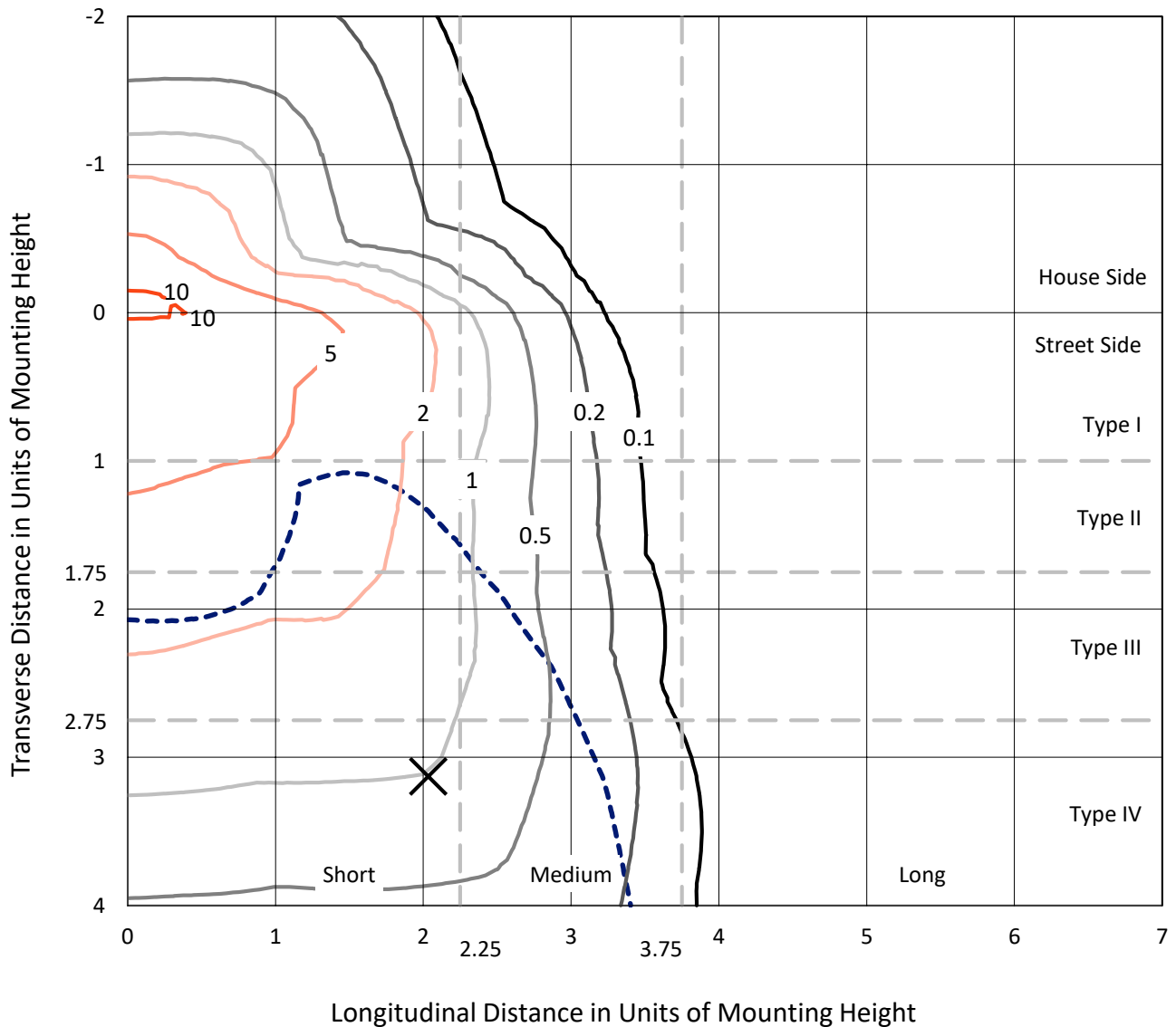
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

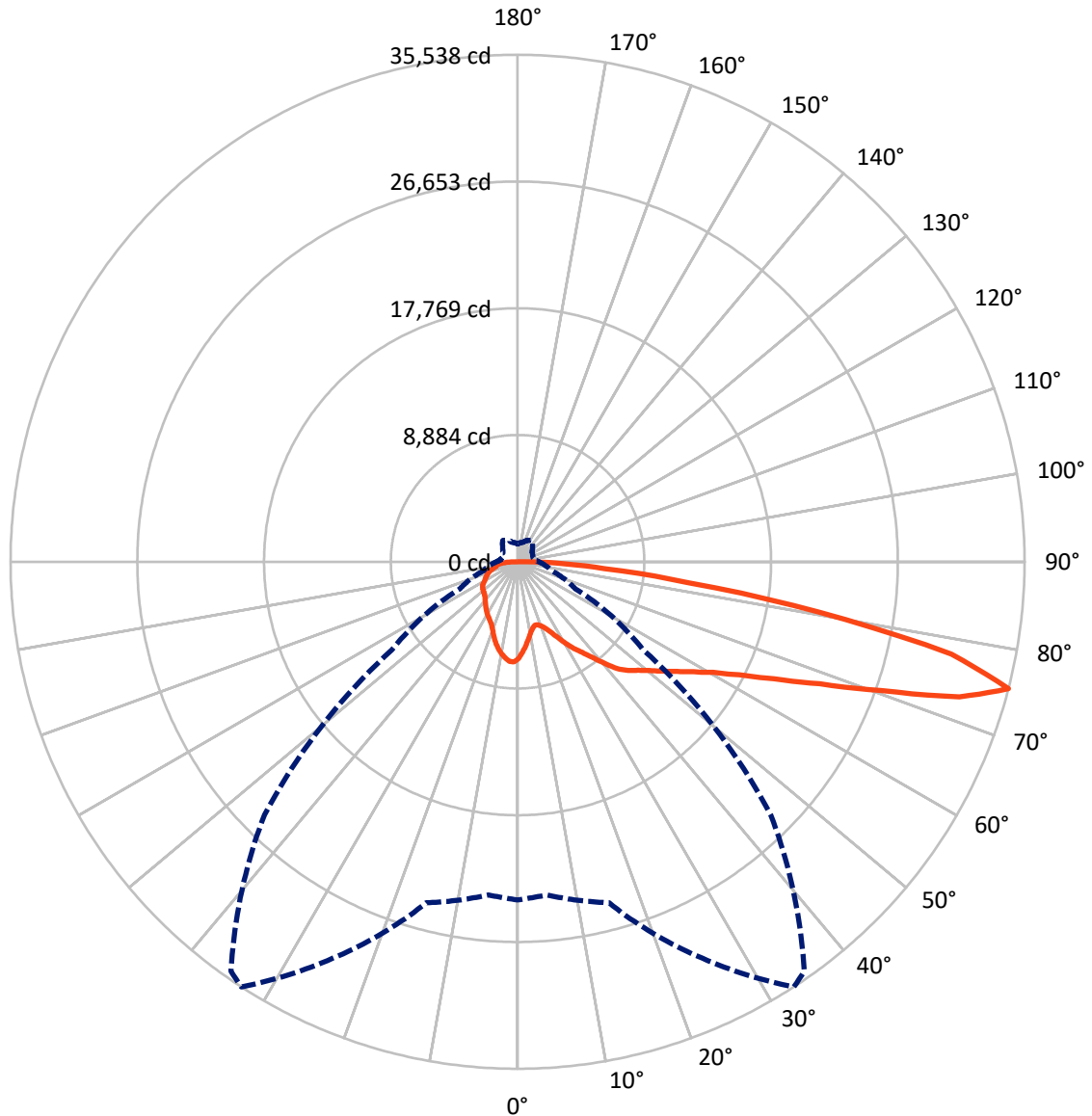
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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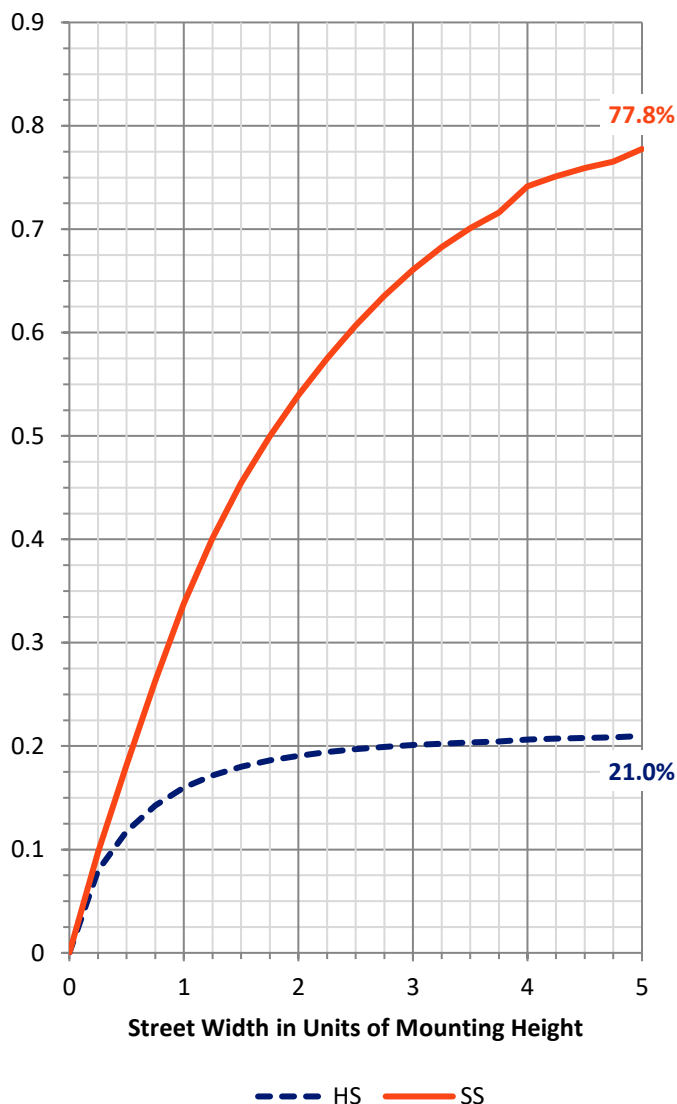
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9338.5	0.0	9338.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	34151.7	0.0	34151.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	43490.2	0.0	43490.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.8	1.4
10°-20°	1665.1	3.8
20°-30°	2719.3	6.3
30°-40°	4049.7	9.3
40°-50°	5808.3	13.4
50°-60°	7973.9	18.3
60°-70°	9983.0	23.0
70°-80°	9031.1	20.8
80°-90°	1645.1	3.8
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°	43490.2	100.0
0°-180°	43490.2	100.0

Coefficient of Utilization



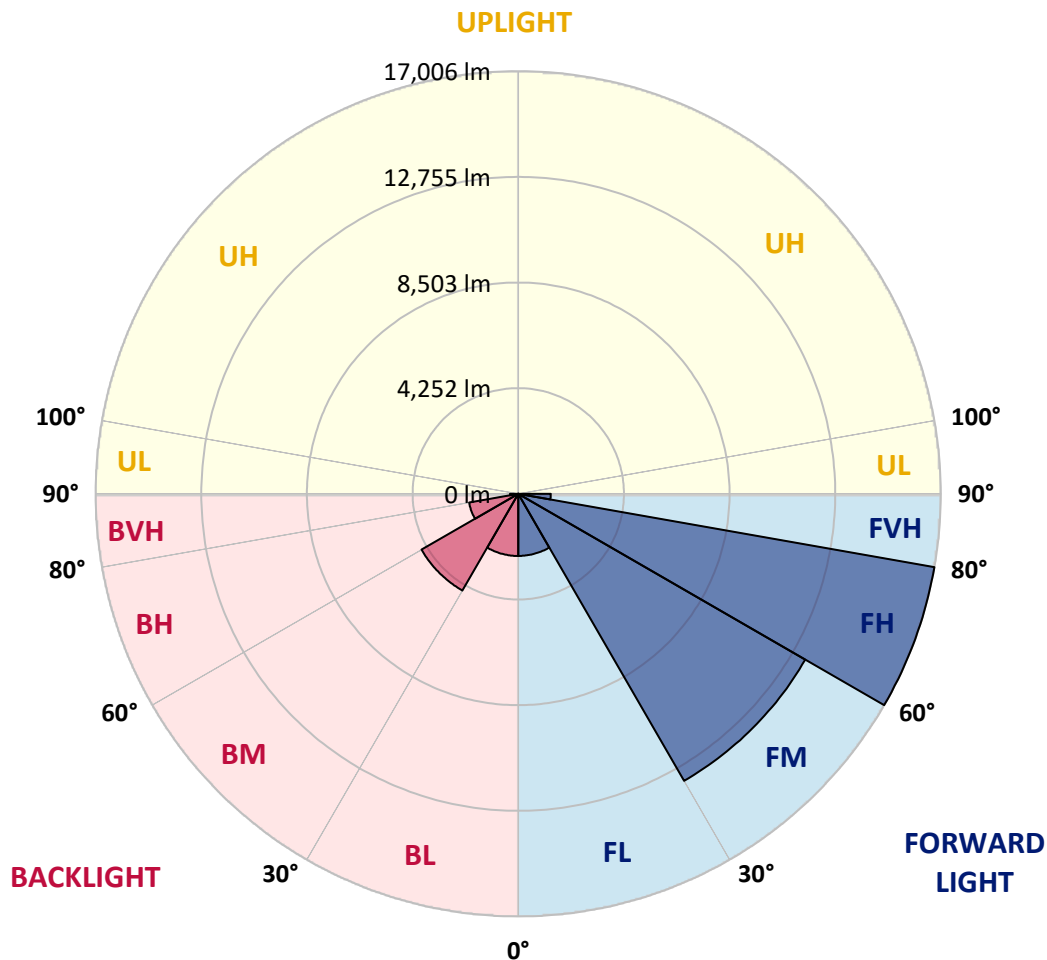
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2497.8	5.7			
FM (30°-60°)	13337.6	30.7			
FH (60°-80°)	17006.2	39.1			G5
FVH (80°-90°)	1310.2	3.0			G5
BL (0°-30°)	2501.3	5.8	B4/5000		
BM (30°-60°)	4494.3	10.3	B3/5000		
BH (60°-80°)	2007.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	334.9	0.8			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8
2.5°	6312.5	6288.5	6333.6	6339.6	6378.7	6393.7	6447.7	6531.8	6600.9	6680.6	6752.7
5°	5740.2	5723.6	5786.8	5831.8	5917.5	5953.5	6081.1	6260.0	6419.2	6599.5	6763.2
7.5°	5196.4	5187.3	5257.9	5360.1	5459.2	5508.8	5729.7	5989.6	6255.4	6546.9	6797.8
10°	4738.1	4735.1	4802.8	4903.4	5049.1	5104.7	5390.1	5732.7	6105.2	6506.3	6856.4
12.5°	4481.3	4491.8	4523.3	4607.4	4742.7	4798.2	5115.2	5517.8	5979.0	6492.8	6942.0
15°	4544.4	4560.9	4506.8	4503.8	4600.0	4643.5	4940.9	5364.6	5888.9	6515.3	7066.6
17.5°	4813.3	4816.3	4673.6	4583.4	4642.0	4664.5	4886.9	5277.5	5836.3	6566.4	7222.9
20°	5191.9	5184.3	4932.0	4781.7	4813.3	4819.3	4963.5	5279.0	5831.8	6655.1	7425.7
22.5°	5693.6	5638.0	5298.5	5094.2	5086.7	5077.7	5160.3	5390.1	5897.9	6799.3	7667.6
25°	6348.6	6296.1	5828.8	5549.4	5489.3	5466.8	5478.8	5627.5	6028.6	6954.0	7938.0
27.5°	7077.2	6985.6	6534.9	6139.7	6015.1	5983.5	5911.4	5962.5	6171.3	7102.8	8259.5
30°	7687.1	7637.6	7243.9	6775.2	6628.1	6583.0	6393.7	6338.1	6377.1	7305.6	8665.1
32.5°	8028.2	7995.1	7756.3	7377.7	7240.9	7177.9	6910.4	6799.3	6707.6	7625.6	9215.0
35°	8441.2	8420.3	8276.0	8001.1	7798.3	7732.2	7524.9	7409.2	7173.3	8065.7	9925.5
37.5°	8967.1	8944.5	8947.5	8725.2	8483.3	8421.7	8285.0	8163.3	7777.2	8644.0	10697.6
40°	9562.0	9518.4	9501.9	9491.4	9338.1	9303.6	9231.5	9066.2	8534.4	9335.1	11459.3
42.5°	10457.3	10302.5	9972.0	10096.8	10248.5	10230.4	10289.0	10051.7	9375.7	10152.4	12202.9
45°	11321.1	11067.3	10496.4	10523.4	10855.4	10956.0	11394.7	11226.5	10287.5	11047.7	12972.1
47.5°	11714.7	11522.4	11037.2	11038.7	11367.7	11576.5	12538.0	12417.7	11246.0	12064.8	13911.0
50°	12154.8	11962.6	11526.9	11690.6	11977.6	12199.9	13642.1	13580.5	12157.9	13177.9	15036.2
52.5°	12635.6	12309.6	12033.2	12326.1	12728.8	12987.1	14747.8	14579.6	12994.6	14298.6	16329.7
55°	12641.6	12553.0	12763.3	12978.1	13580.5	13897.5	15906.0	15461.4	13676.7	15399.8	17382.8
57.5°	13361.2	13217.0	13663.1	13762.3	14549.5	14907.0	17058.2	16229.0	14370.7	16244.0	17950.6
60°	14313.6	14190.5	14555.5	14816.9	15748.3	16226.0	18288.6	17017.7	14916.0	16881.0	17923.5
62.5°	15958.6	15818.9	15814.4	16181.0	17435.3	17991.2	19669.2	17791.3	15132.3	17007.2	17158.9
65°	18366.8	18144.4	17725.3	17899.5	19765.4	20319.7	21212.0	18351.7	14846.9	16331.1	15189.4
67.5°	20710.3	20702.8	20187.5	20545.0	22842.0	23286.6	22969.7	18407.3	13956.1	13977.1	11695.2
70°	23046.3	23076.4	22989.2	24233.1	26998.8	27461.5	24841.5	17660.7	11953.5	10093.8	7006.5
72.5°	24897.1	24889.6	25328.2	28535.6	32393.4	32289.8	26418.9	15398.3	8582.4	5448.7	3348.5
75°	23698.3	23436.9	24743.9	30665.8	35537.7	35031.4	25077.4	10741.2	4454.2	2480.2	1802.7
77.5°	15456.9	15704.7	17623.1	25332.8	31084.9	30469.1	18398.3	5011.5	2098.7	1626.9	1307.0
80°	5597.5	5858.9	8251.9	14349.7	21416.4	21315.7	9060.1	2059.7	1419.7	1228.9	952.4
82.5°	1925.9	2022.0	3255.4	6372.6	12091.8	12542.5	3408.6	1170.3	1032.1	871.3	652.0
85°	755.7	865.3	1488.7	3066.1	6099.2	6144.3	1380.6	700.1	718.1	570.9	357.5
87.5°	286.9	348.5	712.1	1424.1	2785.2	2558.4	494.3	333.5	408.6	339.5	169.7
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°	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8	6797.8
2.5°	6808.3	6839.8	6905.9	6951.0	6999.1	7012.6	7018.6	7030.6	7042.6	7038.1	7039.6
5°	6850.3	6911.9	7018.6	7063.6	7084.7	7060.7	7014.1	6976.5	6949.5	6934.4	6930.0
7.5°	6919.4	7006.5	7120.7	7113.2	7065.1	6958.5	6838.3	6748.2	6673.0	6646.0	6631.0
10°	7011.1	7113.2	7192.9	7107.2	6967.5	6782.8	6602.4	6462.8	6350.1	6306.5	6299.0
12.5°	7128.3	7231.9	7247.0	7065.1	6833.8	6581.5	6336.6	6151.8	5983.5	5929.5	5917.5
15°	7280.0	7377.7	7284.5	6991.5	6668.6	6329.0	6012.1	5761.2	5584.0	5517.8	5493.8
17.5°	7439.2	7532.4	7292.0	6869.9	6452.3	6030.1	5632.0	5375.1	5172.3	5095.7	5086.7
20°	7630.0	7672.1	7260.5	6695.6	6154.8	5642.5	5223.4	4981.5	4873.4	4819.3	4813.3
22.5°	7865.9	7820.8	7188.4	6459.7	5777.7	5194.9	4853.8	4741.2	4714.1	4702.1	4706.6
25°	8115.3	7977.0	7081.7	6151.8	5301.5	4747.2	4583.4	4615.0	4651.0	4646.6	4646.6
27.5°	8390.2	8136.3	6918.0	5743.2	4774.2	4380.6	4400.2	4515.9	4569.9	4568.4	4566.9
30°	8743.2	8316.6	6709.1	5252.0	4281.5	4122.2	4240.9	4382.1	4455.7	4452.7	4454.2
32.5°	9177.3	8514.9	6425.2	4703.6	3925.4	3931.4	4068.2	4207.9	4293.5	4286.0	4287.4
35°	9685.1	8737.2	6040.6	4162.8	3689.6	3779.8	3887.9	3985.5	4066.7	4056.1	4045.6
37.5°	10238.0	8955.1	5529.9	3679.1	3497.3	3638.5	3728.6	3745.2	3782.7	3755.6	3736.2
40°	10763.8	9121.8	4871.9	3282.5	3303.5	3518.3	3576.9	3510.8	3443.2	3434.2	3407.1
42.5°	11222.0	9177.3	4206.3	2965.5	3099.2	3392.1	3428.2	3289.9	3168.3	3111.2	3087.1
45°	11705.6	9196.9	3585.9	2699.5	2902.4	3279.4	3318.5	3133.7	2962.5	2839.3	2798.7
47.5°	12338.2	9338.1	3103.7	2502.8	2752.2	3204.3	3260.0	3009.1	2786.7	2610.9	2573.4
50°	13165.8	9617.5	2711.6	2352.5	2654.5	3154.8	3217.8	2887.3	2642.5	2430.7	2393.1
52.5°	14085.3	9874.4	2394.6	2230.9	2559.9	3067.7	3163.8	2800.2	2507.3	2263.9	2223.3
55°	14728.2	9677.7	2139.2	2104.6	2436.6	2942.9	3088.6	2726.6	2313.5	2101.7	2065.6
57.5°	14851.5	9004.6	1945.4	1973.9	2288.0	2786.7	2973.0	2562.9	2208.3	2031.1	1993.5
60°	14514.9	8067.2	1801.2	1853.8	2128.7	2589.9	2756.6	2447.2	2107.7	1956.0	1924.4
62.5°	13669.2	7107.2	1694.6	1745.6	1980.0	2390.1	2621.5	2325.5	2005.5	1870.4	1838.8
65°	11961.1	5967.0	1592.4	1649.5	1841.8	2217.4	2499.8	2212.8	1904.9	1801.2	1771.2
67.5°	9028.7	4469.3	1496.3	1547.3	1718.6	2067.1	2367.6	2101.7	1807.2	1741.2	1705.1
70°	5316.5	2798.7	1386.6	1440.6	1589.4	1910.9	2226.4	1980.0	1685.5	1655.5	1609.0
72.5°	2474.2	1684.1	1261.9	1314.5	1427.1	1702.0	2044.6	1820.7	1541.3	1475.2	1412.1
75°	1476.7	1231.9	1114.7	1161.3	1240.9	1479.8	1816.2	1658.5	1404.6	1317.5	1251.3
77.5°	1104.2	941.9	952.4	1002.0	1066.6	1294.9	1609.0	1530.8	1299.5	1231.9	1186.8
80°	794.7	715.1	776.6	830.8	898.4	1177.8	1541.3	1415.1	1174.8	1084.6	1042.6
82.5°	530.3	513.7	584.4	640.0	706.0	1030.6	1448.2	1239.3	1003.6	889.3	796.2
85°	293.0	309.5	393.6	417.6	474.7	725.6	1186.8	996.0	755.7	608.4	581.4
87.5°	121.7	142.7	211.8	204.3	252.4	432.6	781.2	600.9	480.8	359.0	279.5
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)