

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: P192175

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192175  
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-07-LED-E1-T2-7050  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41317 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 391  
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

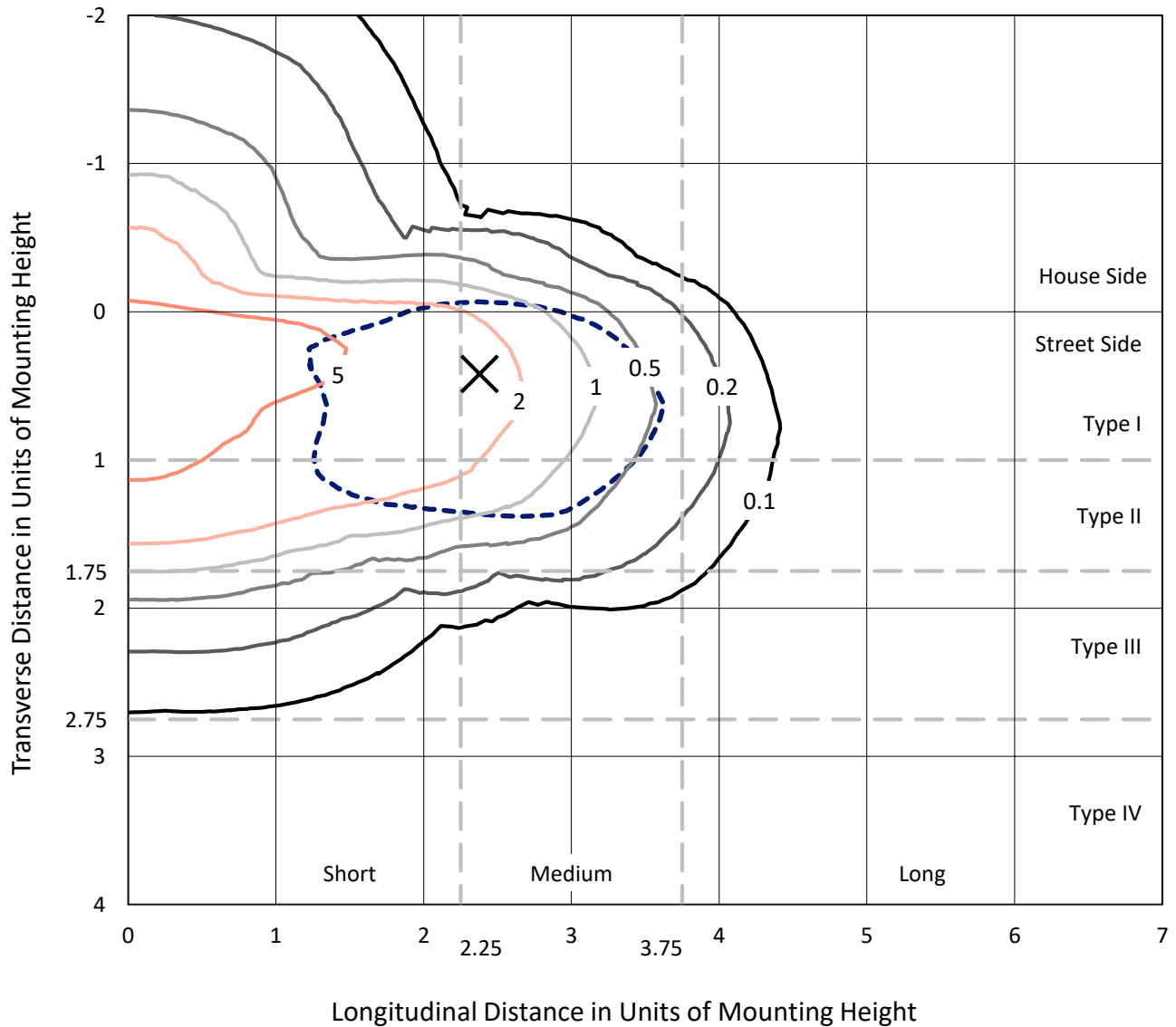


REPORT NUMBER: P192175

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7050

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

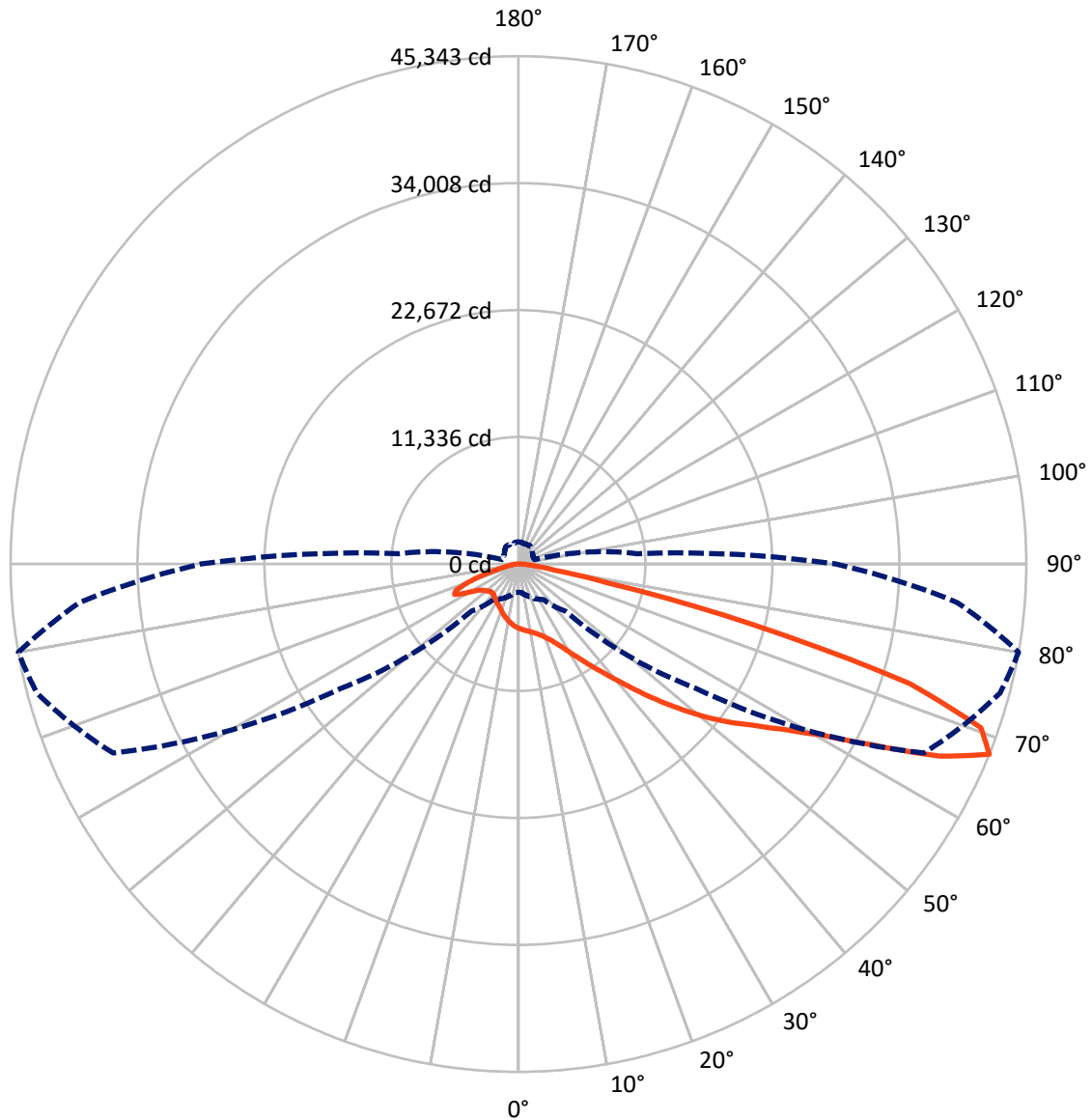


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Medium - Full Cutoff

REPORT NUMBER: P192175

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7050

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P192175

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7050

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7609.0	0.0	7609.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	33708.0	0.0	33708.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	41317.0	0.0	41317.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.5	1.3
10°-20°	1525.3	3.7
20°-30°	2524.8	6.1
30°-40°	4129.9	10.0
40°-50°	6668.1	16.1
50°-60°	9626.8	23.3
60°-70°	10623.7	25.7
70°-80°	4896.9	11.9
80°-90°	792.0	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°	41317.0	100.0
0°-180°	41317.0	100.0



REPORT NUMBER: P192175

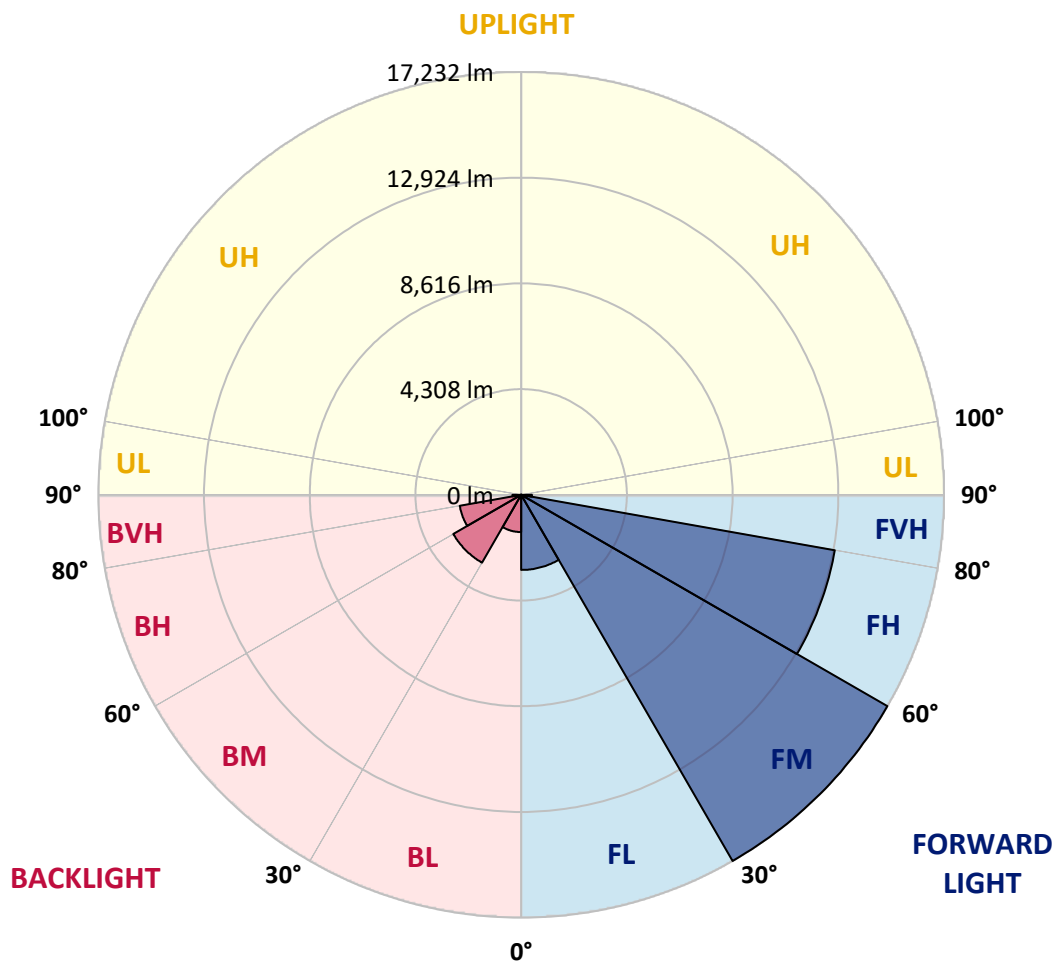
CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7050

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3061.5	7.4			
FM	(30°-60°)	17232.3	41.7			
FH	(60°-80°)	12978.7	31.4			G5
FVH	(80°-90°)	435.5	1.1			G3/500
BL	(0°-30°)	1518.1	3.7	B3/2500		
BM	(30°-60°)	3192.5	7.7	B3/5000		
BH	(60°-80°)	2541.9	6.2	B4/5000		G4/5000
BVH	(80°-90°)	356.6	0.9			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 II Medium





REPORT NUMBER: P192175

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1
2.5°	6279.2	6242.5	6248.6	6238.5	6208.0	6155.1	6098.1	5994.4	5886.6	5829.6	5784.9
5°	6803.9	6793.8	6779.5	6747.0	6669.7	6559.9	6423.6	6240.5	6043.2	5939.5	5839.8
7.5°	7196.5	7190.4	7172.1	7151.8	7076.5	6944.3	6738.9	6478.5	6191.7	6049.3	5894.7
10°	7229.1	7239.2	7253.5	7308.4	7318.6	7247.4	7037.9	6722.6	6346.3	6163.2	5965.9
12.5°	6952.4	6974.8	7029.7	7170.1	7318.6	7406.0	7298.2	6978.9	6527.3	6305.6	6055.4
15°	6586.3	6598.5	6665.6	6858.9	7125.3	7395.9	7497.6	7261.6	6761.2	6488.7	6189.7
17.5°	6429.7	6435.8	6482.6	6610.7	6858.9	7245.3	7609.4	7568.8	7048.0	6716.5	6354.4
20°	6350.4	6364.6	6431.7	6557.8	6714.5	7052.1	7625.7	7900.3	7389.8	7001.3	6561.9
22.5°	6576.1	6570.0	6594.4	6657.5	6789.7	6993.1	7613.5	8242.0	7825.1	7367.4	6832.4
25°	7103.0	7125.3	7082.6	7011.4	7054.1	7196.5	7678.6	8612.2	8370.2	7837.3	7186.4
27.5°	7853.5	7831.2	7768.1	7601.3	7513.8	7574.9	7894.2	9010.9	9047.5	8455.6	7654.2
30°	8602.1	8583.8	8522.7	8319.3	8140.3	8089.5	8313.2	9468.6	9855.0	9198.0	8227.8
32.5°	9379.1	9358.7	9301.8	9098.4	8882.8	8764.8	8909.2	9997.4	10807.0	10084.9	8903.1
35°	10337.1	10298.5	10178.5	9895.7	9684.2	9592.7	9659.8	10662.6	11905.4	11134.5	9722.8
37.5°	11238.2	11297.2	11175.2	10784.6	10510.0	10477.5	10552.7	11474.2	13089.2	12308.1	10664.6
40°	12143.4	12153.5	12043.7	11724.4	11441.6	11388.7	11577.9	12458.7	14486.6	13711.6	11809.8
42.5°	13079.0	13099.4	12914.3	12619.3	12411.9	12422.0	12637.6	13612.0	16089.5	15365.3	13127.9
45°	14187.6	14218.1	14014.7	13628.2	13439.1	13819.4	13729.9	14905.6	17846.9	17244.8	14641.2
47.5°	15347.0	15393.8	15239.2	14877.2	14641.2	15164.0	14822.2	16339.6	19738.6	19260.6	16303.0
50°	15979.6	16046.7	16197.3	16170.8	16120.0	16032.5	16040.6	17877.4	21689.2	21359.7	18011.7
52.5°	15639.9	15637.9	16187.1	16854.3	17566.2	17619.1	17525.5	19498.6	23511.8	23412.1	19620.6
55°	14085.9	14191.7	15023.6	16315.2	18259.8	19474.1	19750.8	21355.7	25301.7	25417.7	21254.0
57.5°	11498.6	11586.0	12708.8	14509.0	17324.1	20576.6	22915.8	24054.9	27303.3	27844.3	23428.4
60°	7798.6	7904.4	9094.3	11256.5	14806.0	19962.3	25928.2	28871.5	29699.4	30930.0	26479.5
62.5°	4582.7	4678.4	5648.6	7100.9	10424.6	17108.5	27250.4	35724.3	33505.1	35586.0	31133.4
65°	3154.8	3219.9	3691.8	4420.0	5990.3	11523.0	25610.9	40455.5	39361.2	41354.6	36529.8
67.5°	2538.5	2530.4	2904.6	3401.0	3856.6	5941.5	19366.3	39920.6	44511.5	45343.4	39330.7
70°	2091.0	2082.9	2337.1	2748.0	3081.6	3346.0	10548.7	33688.2	43461.9	43799.5	36751.5
72.5°	1749.3	1757.4	1920.2	2225.3	2528.3	2520.2	4635.6	23698.9	34190.6	36525.7	29296.6
75°	1476.7	1480.8	1588.6	1804.2	2052.4	2030.0	2514.1	12839.0	19874.9	21500.1	16240.0
77.5°	1257.1	1261.1	1330.3	1450.3	1627.3	1619.1	1834.7	5546.9	8290.9	8189.1	5555.0
80°	1120.8	1120.8	1153.3	1175.7	1273.3	1236.7	1360.8	2664.6	3504.7	3236.2	2217.1
82.5°	878.7	882.8	1082.1	1074.0	1002.8	956.0	956.0	1570.3	1857.1	1716.8	1297.7
85°	494.3	492.2	697.7	842.1	882.8	673.3	667.2	878.7	1010.9	890.9	628.5
87.5°	211.5	215.6	323.4	374.3	500.4	419.0	412.9	453.6	514.6	445.5	290.9
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: P192175

CATALOG NUMBER: GLEON-AF-07-LED-E1-T2-7050

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1	5740.1
2.5°	5742.2	5689.3	5573.3	5428.9	5298.7	5213.3	5136.0	5024.1	5030.2	4952.9	4896.0
5°	5738.1	5628.3	5359.8	5040.4	4733.3	4511.6	4344.8	4194.2	4157.6	4086.4	4043.7
7.5°	5742.2	5563.2	5111.6	4601.1	4220.7	3940.0	3797.6	3718.3	3700.0	3675.6	3677.6
10°	5756.4	5504.2	4839.0	4190.2	3791.5	3606.4	3571.8	3596.2	3624.7	3632.8	3634.9
12.5°	5789.0	5451.3	4540.0	3824.0	3523.0	3466.0	3525.0	3608.4	3663.4	3689.8	3687.8
15°	5862.2	5410.6	4253.2	3537.2	3374.5	3405.0	3514.9	3632.8	3712.2	3748.8	3750.8
17.5°	5941.5	5351.6	3958.3	3317.6	3264.7	3342.0	3478.3	3616.6	3714.2	3754.9	3763.0
20°	6045.2	5278.4	3649.1	3152.8	3160.9	3248.4	3376.5	3514.9	3622.7	3657.2	3673.5
22.5°	6181.5	5199.1	3378.6	3018.6	3043.0	3110.1	3209.8	3329.8	3423.3	3439.6	3453.8
25°	6364.6	5113.6	3163.0	2896.5	2906.7	2945.3	3012.5	3083.6	3148.7	3130.4	3144.7
27.5°	6610.7	5040.4	3002.3	2784.6	2766.3	2774.5	2809.0	2831.4	2866.0	2815.1	2821.2
30°	6899.6	4961.1	2878.2	2687.0	2636.1	2621.9	2630.0	2642.3	2668.7	2599.5	2589.4
32.5°	7235.2	4865.5	2762.3	2601.6	2530.4	2501.9	2506.0	2538.5	2640.2	2597.5	2575.1
35°	7625.7	4757.7	2640.2	2508.0	2459.2	2418.5	2414.4	2516.1	2819.2	2792.8	2772.4
37.5°	8083.4	4649.9	2518.2	2402.2	2406.3	2361.6	2347.3	2463.3	2853.8	2750.1	2735.8
40°	8665.1	4592.9	2414.4	2290.4	2341.2	2335.1	2306.6	2365.6	2626.0	2436.8	2412.4
42.5°	9385.2	4601.1	2337.1	2170.3	2263.9	2329.0	2284.3	2286.3	2379.9	2237.5	2215.1
45°	10274.1	4696.7	2282.2	2074.7	2176.5	2322.9	2276.1	2243.6	2251.7	2176.5	2164.2
47.5°	11311.4	4894.0	2243.6	1995.4	2093.1	2300.5	2274.1	2231.4	2213.1	2172.4	2162.2
50°	12464.8	5180.8	2215.1	1920.2	2017.8	2263.9	2276.1	2219.2	2198.8	2182.6	2176.5
52.5°	13597.7	5508.2	2172.4	1855.1	1958.8	2219.2	2282.2	2207.0	2184.6	2172.4	2166.3
55°	14860.9	5917.1	2107.3	1800.1	1910.0	2162.2	2282.2	2188.7	2164.2	2166.3	2164.2
57.5°	16567.5	6578.2	2030.0	1753.4	1851.0	2093.1	2243.6	2168.3	2137.8	2139.8	2141.9
60°	19234.1	7743.7	1936.4	1706.6	1777.8	2011.7	2190.7	2123.6	2093.1	2101.2	2103.2
62.5°	23155.8	9454.3	1814.4	1637.4	1700.5	1924.2	2117.5	2066.6	2036.1	2056.4	2056.4
65°	27232.1	10963.6	1663.9	1550.0	1619.1	1828.6	2025.9	1995.4	1964.9	2011.7	2009.7
67.5°	28328.4	10626.0	1513.3	1454.4	1537.8	1722.9	1916.1	1899.8	1883.5	1964.9	1960.8
70°	25165.5	8530.9	1375.0	1356.7	1448.3	1608.9	1798.1	1798.1	1787.9	1849.0	1834.7
72.5°	19173.1	6049.3	1242.8	1253.0	1346.6	1484.9	1670.0	1684.2	1667.9	1698.4	1686.2
75°	10263.9	3462.0	1110.6	1139.1	1220.4	1358.8	1527.6	1541.8	1531.7	1529.6	1535.7
77.5°	3411.1	1692.3	972.3	1017.0	1088.2	1228.6	1379.1	1401.5	1377.1	1373.0	1371.0
80°	1519.4	1063.8	819.7	878.7	941.8	1080.1	1222.5	1240.8	1214.3	1251.0	1204.2
82.5°	976.4	699.7	657.0	722.1	783.1	931.6	1065.9	1069.9	1045.5	1214.3	1035.3
85°	473.9	433.3	494.3	553.3	606.2	732.3	882.8	884.8	823.8	750.6	724.1
87.5°	236.0	252.2	329.5	382.4	408.8	502.4	642.8	630.6	604.1	549.2	506.5
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)