

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: P268493

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-AFL-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26516.7 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

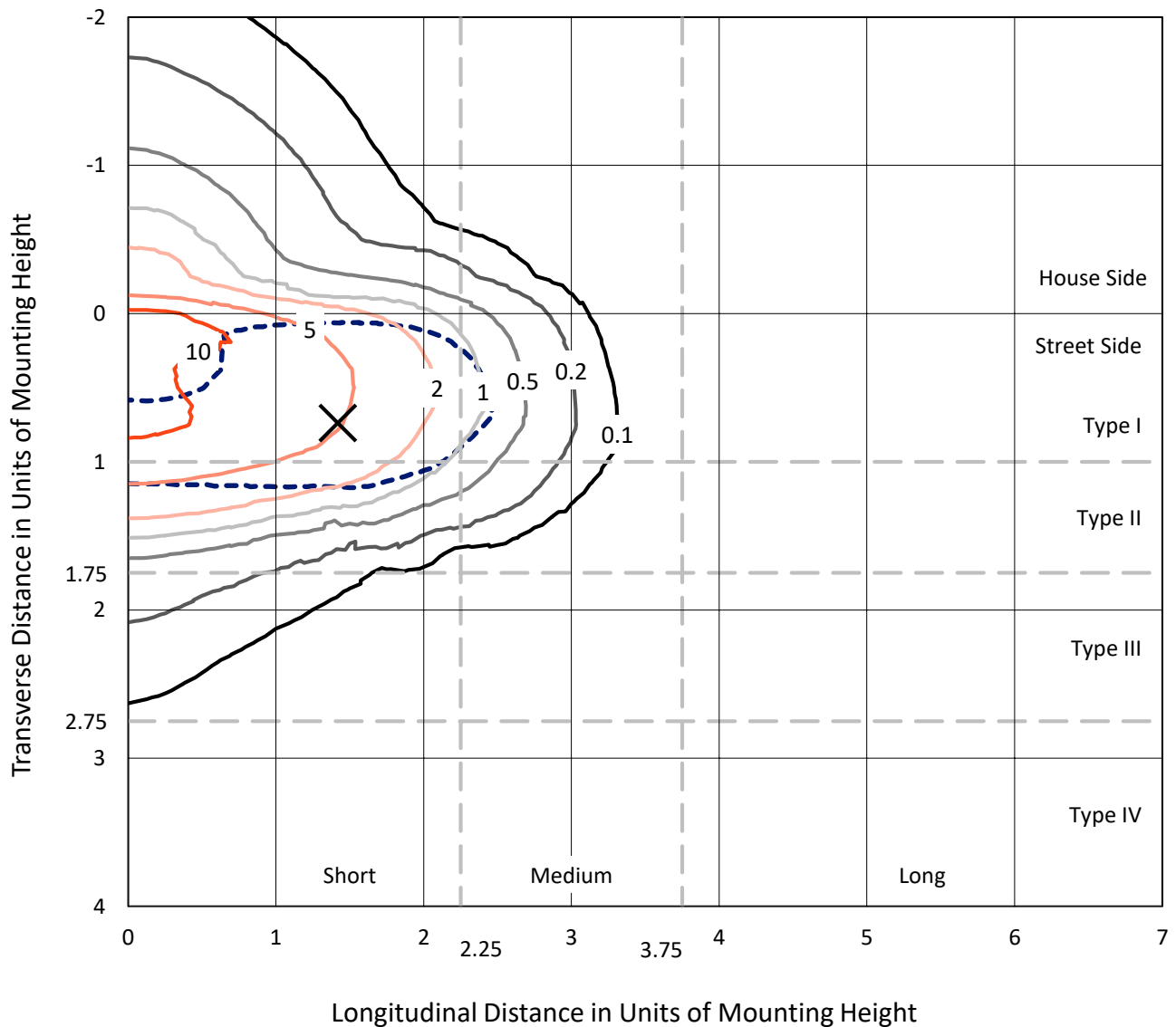
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P268493
 CATALOG NUMBER: GAN-AF-05-LED-U-AFL-7027

Iso-Footcandle Lines of Horizontal Illumination

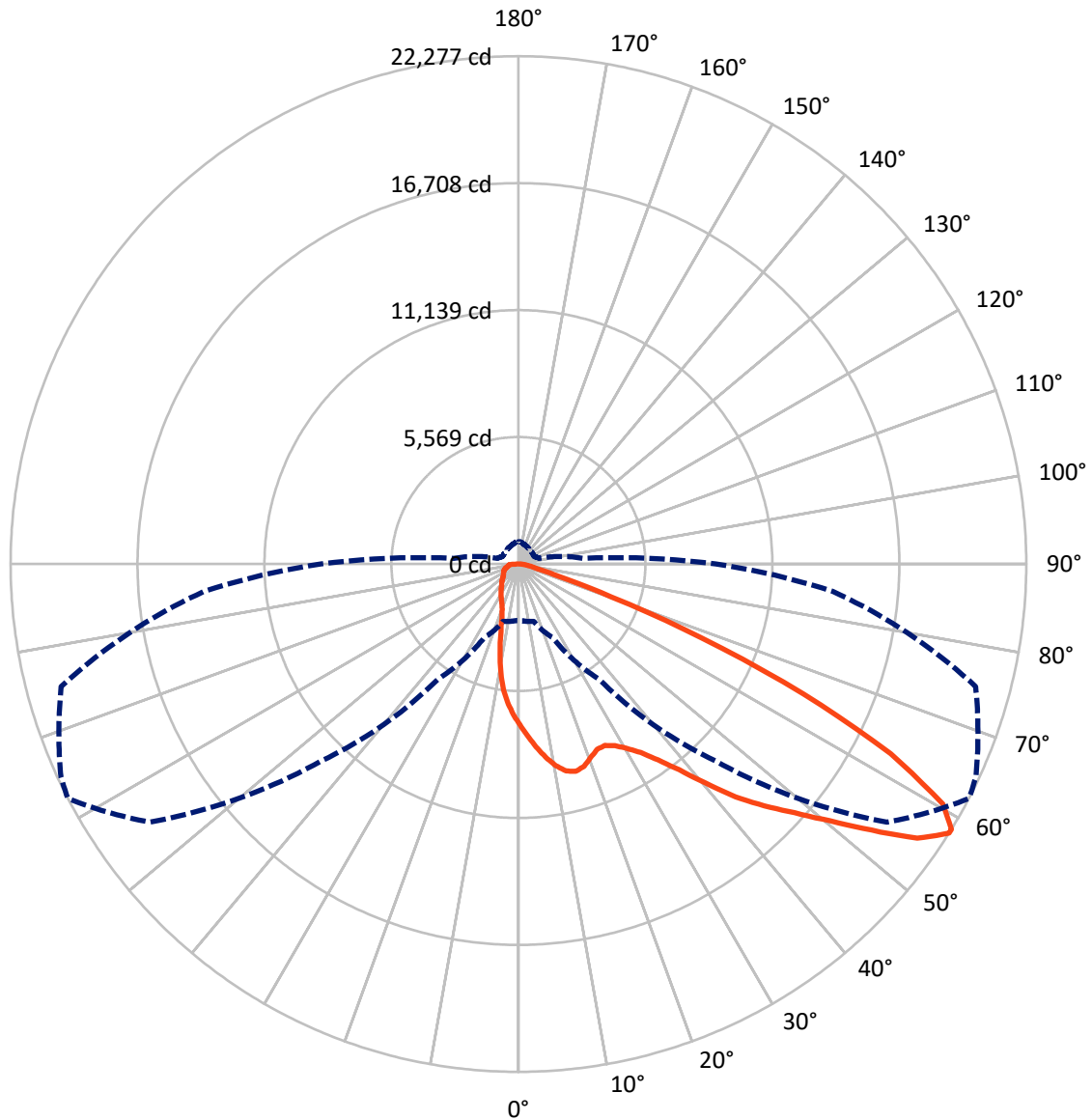
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P268493
CATALOG NUMBER: GAN-AF-05-LED-U-AFL-7027

Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

REPORT NUMBER: P268493

CATALOG NUMBER: GAN-AF-05-LED-U-AFL-7027

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4043.9	0.0	4043.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	22472.8	0.0	22472.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	26516.7	0.0	26516.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	629.9	2.4
10°-20°	1610.2	6.1
20°-30°	2603.0	9.8
30°-40°	4132.3	15.6
40°-50°	6046.4	22.8
50°-60°	6324.0	23.8
60°-70°	3736.2	14.1
70°-80°	1052.5	4.0
80°-90°	382.1	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°	26516.7	100.0
0°-180°	26516.7	100.0

Coefficient of Utilization



REPORT NUMBER: P268493

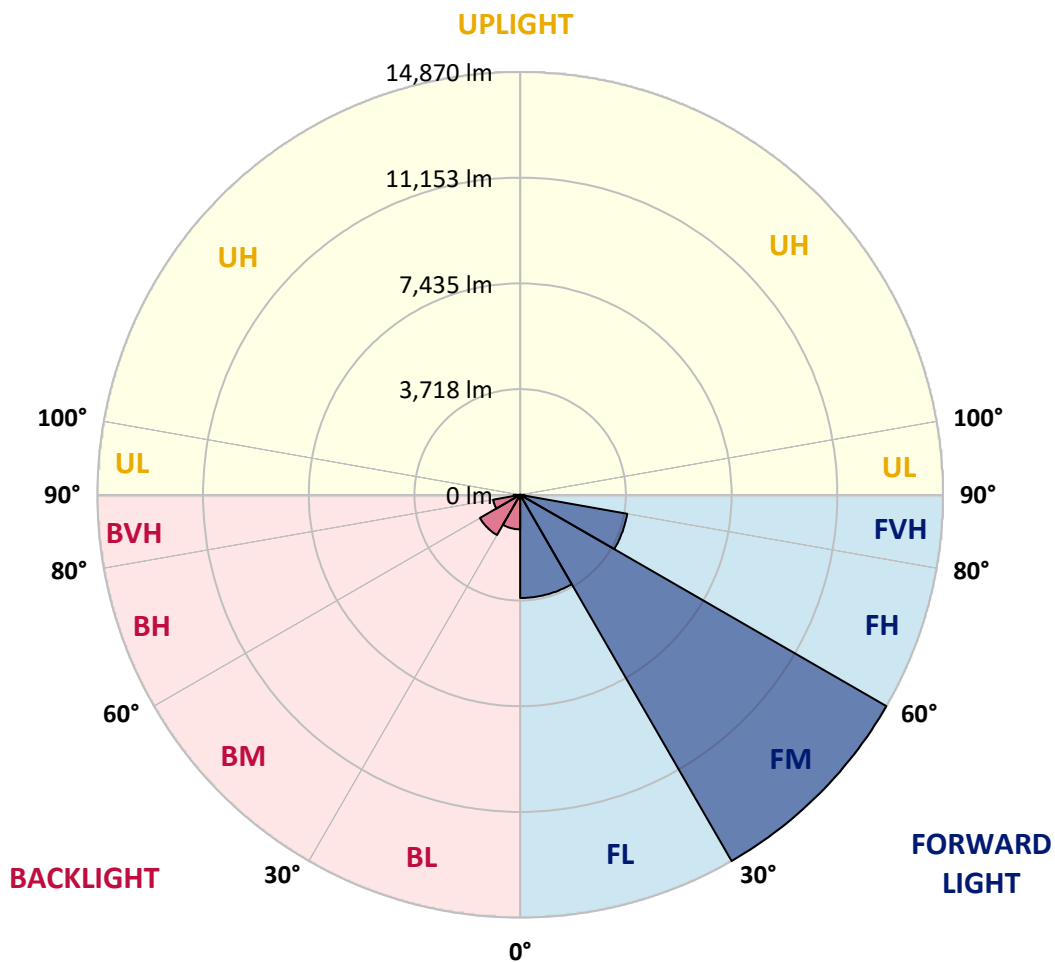
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3627.8	13.7			
FM (30°-60°)	14870.4	56.1			
FH (60°-80°)	3823.8	14.4			G2/5000
FVH (80°-90°)	150.7	0.6			G2/225
BL (0°-30°)	1215.4	4.6	B3/2500		
BM (30°-60°)	1632.2	6.2	B2/2500		
BH (60°-80°)	964.9	3.6	B2/1000		G2/1000
BVH (80°-90°)	231.4	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P268493

CATALOG NUMBER: GAN-AF-05-LED-U-AFL-7027

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6
2.5°	8048.8	7983.9	7942.6	7906.4	7859.0	7757.9	7621.7	7535.6	7491.9	7343.3	7167.2
5°	8838.0	8780.6	8738.1	8689.3	8604.4	8445.9	8226.0	8051.2	7965.1	7667.9	7315.8
7.5°	8653.2	8676.9	8750.5	8879.1	8989.0	8967.8	8771.7	8549.4	8435.9	8022.6	7488.1
10°	7539.4	7580.5	7707.8	8008.7	8495.8	8995.3	9147.6	8994.0	8879.1	8373.5	7665.4
12.5°	7315.8	7314.5	7324.6	7404.5	7694.2	8397.1	9160.0	9315.0	9246.3	8708.1	7846.4
15°	7407.0	7409.5	7401.9	7435.7	7525.6	7804.0	8778.0	9438.5	9487.2	9045.3	8033.8
17.5°	7646.7	7640.4	7611.8	7611.8	7644.1	7752.8	8328.5	9323.7	9548.4	9343.6	8198.7
20°	8048.8	8020.1	7943.9	7874.0	7839.0	7897.7	8143.7	9059.0	9442.3	9604.6	8334.7
22.5°	8535.8	8513.2	8389.7	8239.9	8118.7	8117.4	8238.5	8828.0	9258.7	9850.5	8449.5
25°	9165.0	9128.8	8945.3	8705.6	8493.3	8412.2	8445.9	8816.7	9158.8	10117.8	8552.0
27.5°	9904.3	9838.1	9620.8	9274.9	8962.7	8799.2	8750.5	9020.2	9249.9	10448.6	8694.3
30°	10800.9	10724.7	10446.2	9995.4	9554.6	9286.1	9182.6	9381.1	9552.1	10852.0	8922.9
32.5°	11820.9	11711.1	11388.9	10891.9	10312.6	9903.0	9734.5	9858.1	9994.2	11337.7	9208.7
35°	13230.6	13099.5	12633.9	11948.3	11294.0	10730.9	10461.1	10551.0	10683.5	12061.9	9622.0
37.5°	14192.1	14133.5	13823.7	13179.5	12467.8	11819.7	11402.6	11455.0	11530.0	12967.3	10151.4
40°	14183.3	14207.1	14213.3	14219.6	13735.2	13114.5	12666.3	12611.3	12596.4	13961.1	10753.3
42.5°	13472.9	13570.2	13884.9	14523.0	14817.7	14533.0	14122.3	13963.7	13884.9	15132.4	11391.3
45°	12385.3	12437.8	13027.1	14273.3	15372.1	15937.6	15626.8	15127.4	14984.9	16208.7	11920.9
47.5°	11824.7	11882.2	12253.1	13611.5	15365.9	17072.7	17252.6	16301.2	16046.3	17145.2	12377.8
50°	10489.9	10609.7	11076.7	12460.2	14805.2	17594.7	18951.9	17699.6	17172.7	18056.7	12836.2
52.5°	8038.8	8223.7	8746.7	10567.3	13382.9	17336.2	20311.8	19395.2	18651.0	19000.7	13229.3
55°	5070.8	5208.2	5647.6	7463.2	10705.9	15991.4	20827.5	21229.6	20567.8	19894.8	13570.2
57.5°	2757.0	2818.3	2983.0	4120.5	6963.8	13018.3	20075.7	22273.4	21998.7	20653.9	13827.5
58°	2467.4	2508.5	2611.0	3571.1	6175.8	12205.5	19742.4	22277.1	22139.7	20765.0	13847.6
60°	1830.6	1809.2	1718.2	2037.7	3437.5	8432.1	17727.1	21385.6	21788.8	20901.1	13750.0
62.5°	1608.2	1557.0	1371.1	1349.9	1671.9	3884.5	13564.0	18318.9	19271.6	20124.4	13158.3
65°	1510.9	1456.0	1216.1	1138.8	1206.2	1643.2	7990.1	13738.9	14933.9	17769.6	11644.9
67.5°	1438.5	1367.3	1117.5	1011.4	1016.4	1086.3	3202.7	8653.2	9998.0	13491.6	9057.7
70°	1368.5	1291.1	1033.9	911.5	882.8	859.0	1273.6	4331.5	5551.4	8522.0	5775.1
72.5°	1293.6	1217.5	960.2	832.9	776.7	698.1	831.7	1771.8	2474.8	4032.0	2619.6
75°	1185.0	1116.4	886.5	762.9	683.0	578.1	628.0	925.3	1110.0	1605.8	1262.4
77.5°	1051.3	995.1	804.2	705.4	605.5	469.5	483.2	641.7	711.7	919.0	750.4
80°	755.5	775.3	715.5	634.4	539.4	380.8	370.8	468.2	505.7	590.6	488.1
82.5°	530.7	541.9	591.9	518.2	445.7	299.7	273.4	329.7	352.1	388.3	263.5
85°	365.9	353.4	405.9	360.8	322.1	199.9	187.2	223.5	237.2	240.9	136.2
87.5°	219.7	219.7	234.7	193.6	173.6	103.7	101.1	127.4	136.2	129.8	74.9
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°	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6	7043.6
2.5°	7062.4	6973.7	6785.2	6634.1	6443.1	6244.5	6133.4	6014.7	5933.6	5874.8	5968.5
5°	7116.1	6934.9	6545.4	6175.8	5767.5	5342.9	5020.7	4721.1	4512.6	4382.7	4505.1
7.5°	7201.0	6922.5	6301.9	5670.1	4937.2	4230.4	3598.6	3202.7	2971.9	2858.1	2929.4
10°	7298.3	6902.5	6015.9	4984.5	3935.7	3045.4	2573.5	2413.7	2361.1	2339.9	2350.0
12.5°	7379.4	6860.0	5665.2	4155.5	2955.6	2404.9	2268.8	2265.0	2276.2	2278.8	2282.6
15°	7437.0	6797.7	5144.5	3291.4	2363.7	2191.3	2183.9	2206.3	2227.5	2236.3	2241.4
17.5°	7475.6	6669.0	4556.4	2602.2	2117.8	2087.8	2105.2	2134.0	2156.4	2162.7	2167.7
20°	7471.9	6480.6	3855.9	2170.1	1984.0	1984.0	2014.1	2036.5	2037.7	2030.3	2034.0
22.5°	7433.1	6222.0	3176.5	1940.3	1865.5	1886.7	1916.7	1895.5	1808.1	1750.5	1754.3
25°	7368.3	5913.6	2594.7	1794.4	1755.6	1793.0	1784.4	1624.5	1499.6	1443.4	1443.4
27.5°	7310.9	5549.0	2147.7	1667.0	1645.8	1691.9	1537.1	1392.3	1339.8	1313.6	1304.9
30°	7269.7	5155.6	1849.3	1544.5	1542.1	1508.3	1333.5	1293.6	1284.8	1263.6	1256.1
32.5°	7279.7	4757.3	1658.2	1437.2	1445.9	1291.1	1236.2	1245.0	1237.4	1215.0	1204.9
35°	7362.0	4379.0	1533.3	1339.8	1313.6	1166.2	1178.8	1194.9	1192.5	1161.2	1151.3
37.5°	7509.3	4020.6	1450.9	1258.6	1146.2	1103.7	1123.8	1148.8	1142.6	1121.3	1113.8
40°	7664.2	3683.5	1383.5	1194.9	1047.7	1061.3	1078.9	1092.6	1098.7	1105.0	1100.1
42.5°	7815.3	3331.4	1301.0	1130.0	1006.5	1021.5	1028.9	1042.7	1076.3	1100.1	1098.7
45°	7905.2	3000.5	1216.1	1037.6	973.9	982.7	977.6	1005.2	1046.3	1085.1	1086.3
47.5°	8005.1	2743.2	1148.8	952.7	942.7	949.0	934.0	961.5	998.9	1046.3	1051.3
50°	8126.2	2589.8	1095.0	885.3	900.3	900.3	896.5	921.5	973.9	1028.9	1038.9
52.5°	8263.6	2559.7	1050.1	836.6	857.8	856.5	860.3	897.8	955.2	1008.8	1017.6
55°	8430.9	2640.8	1001.4	800.4	816.6	821.6	834.0	876.6	925.3	986.3	990.2
57.5°	8625.6	2805.6	962.8	771.6	779.2	795.4	815.4	854.1	906.5	973.9	977.6
58°	8658.1	2840.7	956.4	769.2	771.6	790.4	812.8	850.3	902.7	976.5	980.2
60°	8659.4	2956.9	942.7	757.9	743.0	774.2	799.1	836.6	896.5	985.3	994.0
62.5°	8352.3	2955.6	932.7	741.7	713.0	751.7	780.4	824.1	890.3	1006.5	1023.9
65°	7354.6	2685.8	885.3	716.7	689.3	731.7	764.2	815.4	907.7	1098.7	1110.0
67.5°	5752.6	2201.3	796.6	681.8	658.1	711.7	754.1	814.1	926.5	1120.0	1127.6
70°	3803.3	1647.0	699.2	641.7	625.6	688.0	759.2	856.5	905.2	1075.1	1055.1
72.5°	1974.1	1156.3	620.5	591.9	588.1	666.8	831.7	851.6	884.0	1011.4	986.3
75°	1036.4	802.8	551.9	536.8	543.1	661.8	981.5	829.0	856.5	967.7	1015.2
77.5°	634.4	648.0	493.2	487.1	499.5	646.8	980.2	800.4	816.6	890.3	942.7
80°	424.5	525.7	448.3	449.5	458.2	591.9	880.2	755.5	768.0	841.6	895.3
82.5°	268.5	311.0	407.0	428.3	417.1	488.1	748.0	688.0	705.4	962.8	1017.6
85°	136.2	194.8	353.4	412.1	375.9	342.2	606.9	603.1	611.8	694.2	725.6
87.5°	62.4	107.3	276.0	359.6	283.4	213.4	440.8	446.9	482.0	493.2	493.2
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)