

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: P452768

Luminaire Tested: **GALN-SA3D-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 19271 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

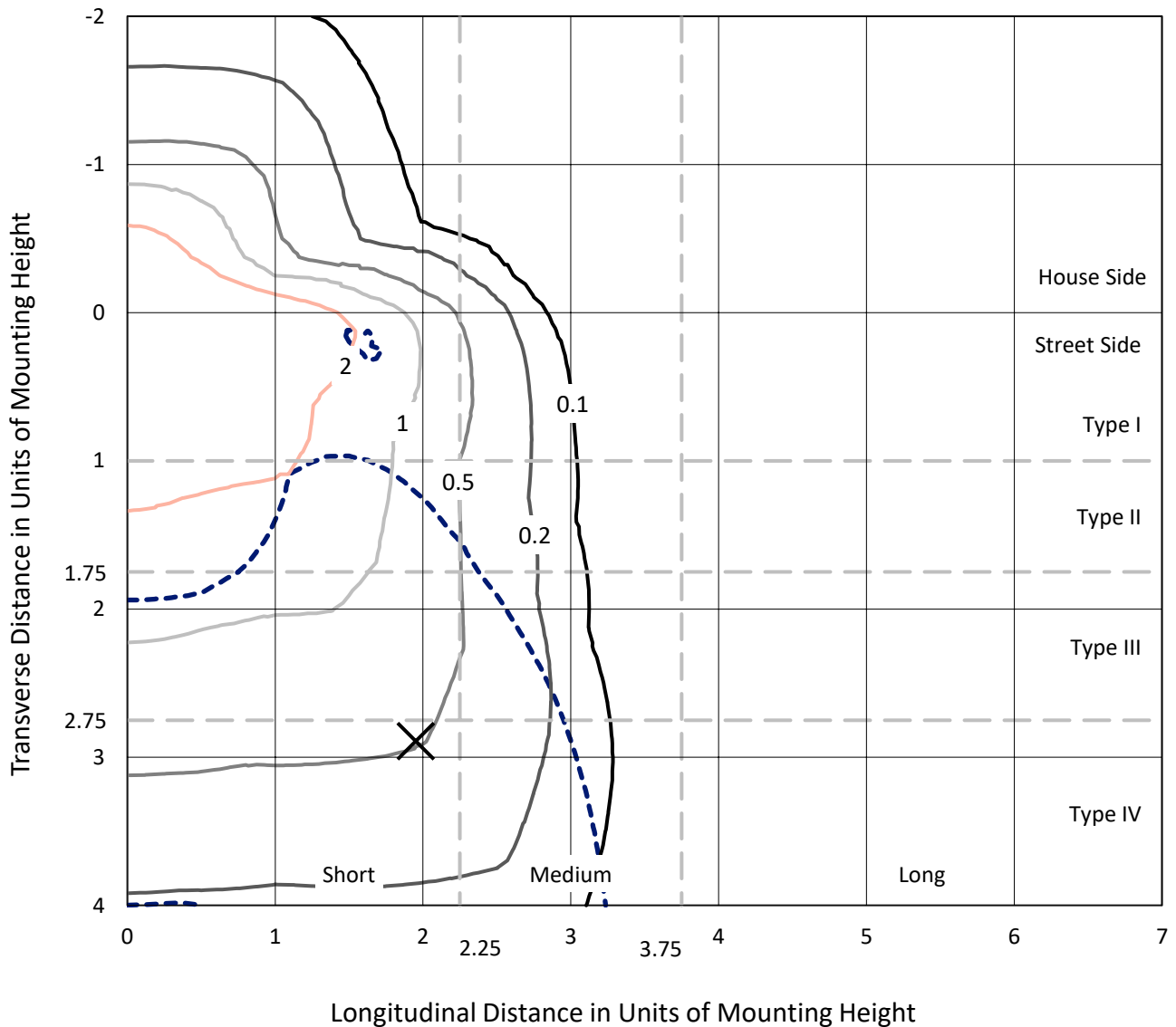
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452768
 CATALOG NUMBER: GALN-SA3D-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

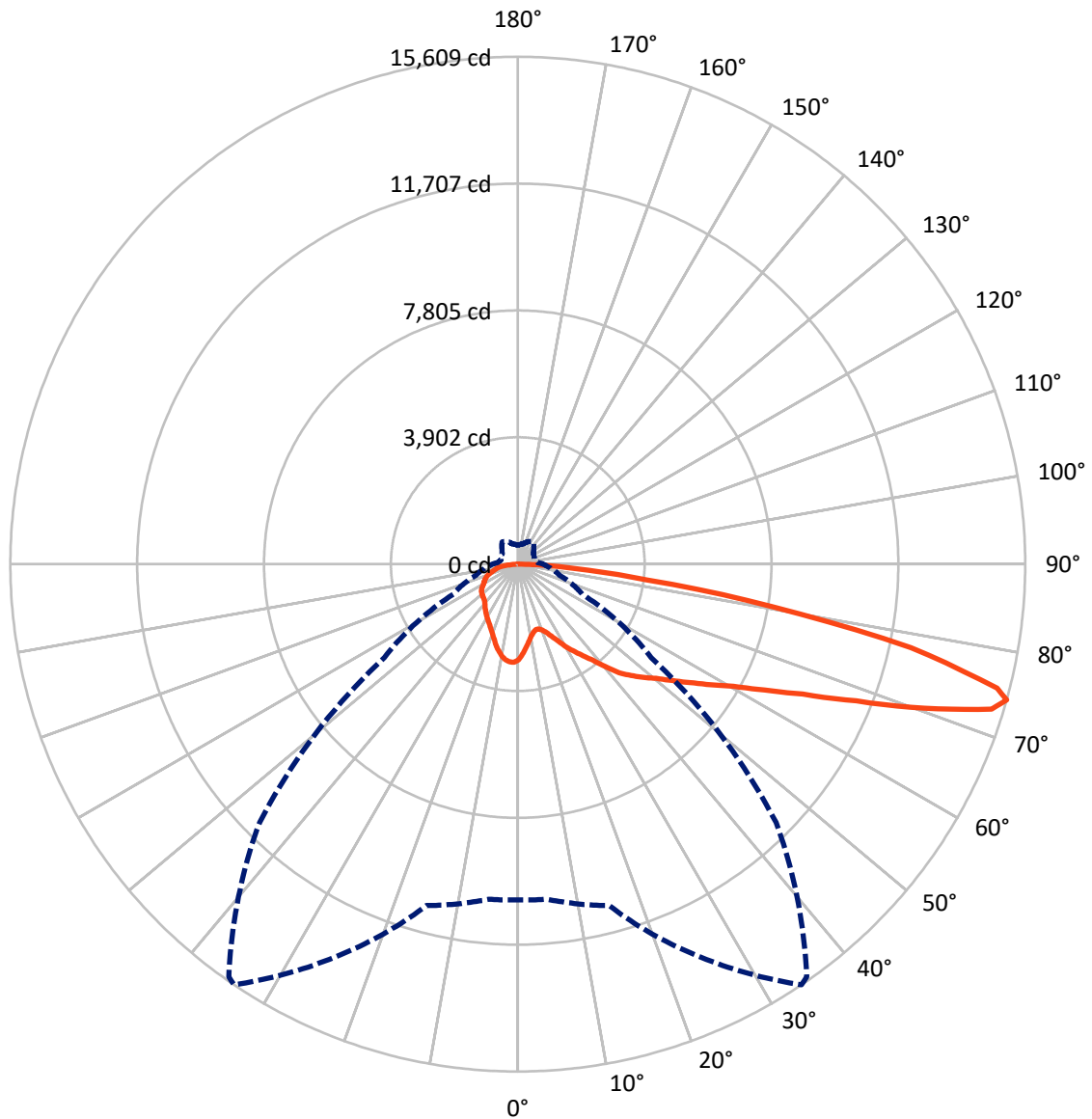
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P452768
CATALOG NUMBER: GALN-SA3D-727-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P452768

CATALOG NUMBER: GALN-SA3D-727-U-T4FT

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4101.0	0.0	4101.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	15170.0	0.0	15170.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	19271.0	0.0	19271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	1.4
10°-20°	732.5	3.8
20°-30°	1207.7	6.3
30°-40°	1809.0	9.4
40°-50°	2629.9	13.6
50°-60°	3673.3	19.1
60°-70°	4598.7	23.9
70°-80°	3802.8	19.7
80°-90°	549.5	2.9
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°	19271.0	100.0
0°-180°	19271.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452768

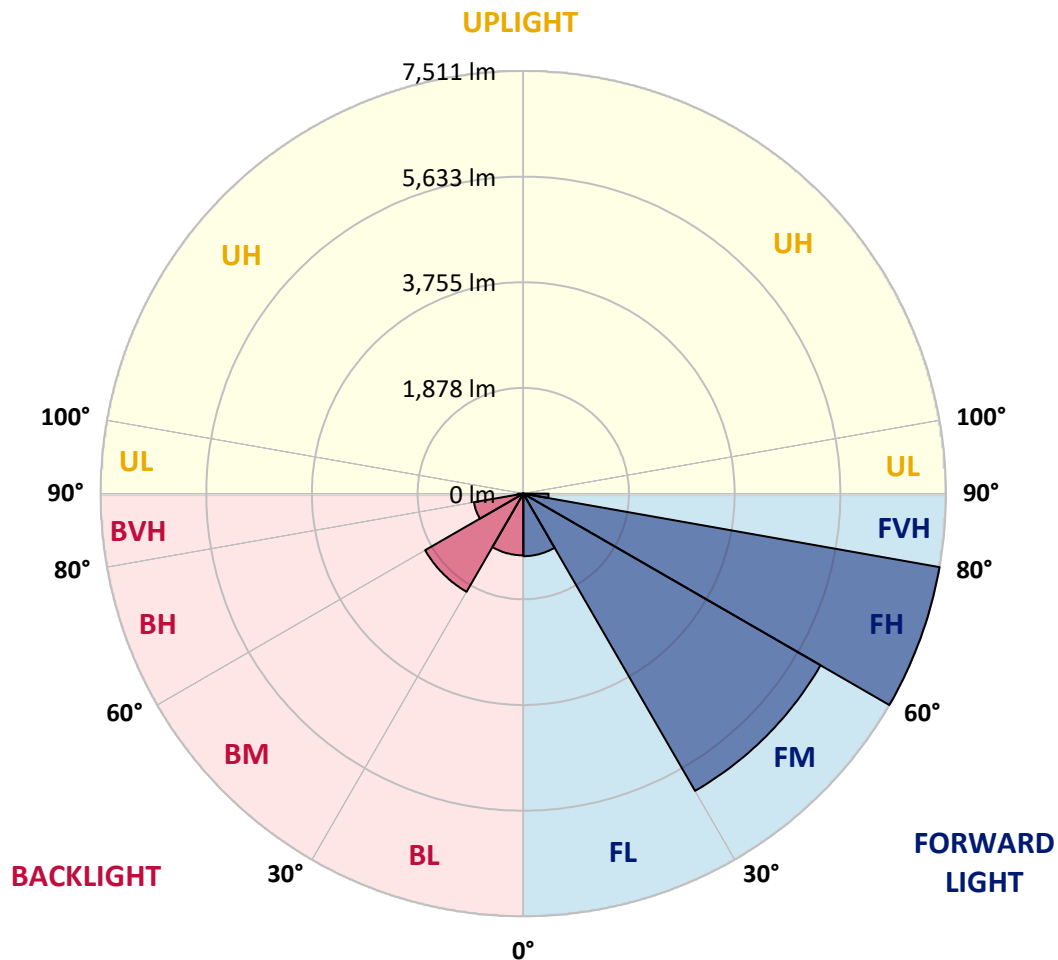
CATALOG NUMBER: GALN-SA3D-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1110.9	5.8			
FM (30°-60°)	6098.1	31.6			
FH (60°-80°)	7510.8	39.0			G4/12000
FVH (80°-90°)	450.1	2.3			G3/500
BL (0°-30°)	1097.0	5.7	B3/2500		
BM (30°-60°)	2014.0	10.5	B2/2500		
BH (60°-80°)	890.7	4.6	B2/1000		G2/1000
BVH (80°-90°)	99.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





REPORT NUMBER: P452768

CATALOG NUMBER: GALN-SA3D-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3
2.5°	2719.2	2733.1	2740.5	2767.2	2773.6	2782.2	2804.6	2834.5	2872.9	2907.1	2937.0
5°	2492.8	2514.2	2527.0	2550.5	2596.4	2600.7	2660.5	2728.8	2806.7	2879.3	2939.1
7.5°	2278.3	2301.7	2312.4	2355.1	2416.0	2425.6	2513.1	2621.0	2751.2	2861.2	2953.0
10°	2117.0	2128.8	2152.3	2184.3	2256.9	2263.3	2377.5	2521.7	2690.3	2852.6	2976.5
12.5°	2029.5	2035.9	2041.2	2075.4	2146.9	2156.5	2276.1	2439.5	2642.3	2859.0	3014.9
15°	2042.3	2044.5	2021.0	2027.4	2085.0	2098.9	2217.4	2385.0	2612.4	2875.0	3072.5
17.5°	2150.1	2142.7	2085.0	2055.1	2095.7	2102.1	2205.7	2363.7	2598.5	2904.9	3132.3
20°	2319.9	2309.2	2209.9	2143.7	2167.2	2172.6	2244.1	2379.7	2612.4	2954.0	3225.2
22.5°	2531.3	2527.0	2376.5	2296.4	2295.3	2295.3	2332.7	2437.3	2654.0	3021.3	3322.4
25°	2827.0	2804.6	2608.1	2504.6	2475.8	2473.6	2469.4	2532.3	2707.4	3092.8	3437.7
27.5°	3130.2	3091.8	2916.7	2757.6	2695.7	2688.2	2660.5	2666.9	2775.8	3174.0	3569.0
30°	3402.4	3377.9	3213.5	3037.3	2963.7	2946.6	2869.7	2834.5	2890.0	3320.2	3778.2
32.5°	3610.6	3595.7	3467.6	3307.4	3198.5	3195.3	3083.2	3054.4	3068.3	3497.5	4017.4
35°	3779.3	3784.6	3719.5	3580.7	3455.8	3437.7	3362.9	3326.6	3286.1	3753.7	4318.4
37.5°	4009.9	4021.6	4017.4	3897.8	3745.1	3749.4	3732.3	3672.5	3564.7	4039.8	4652.6
40°	4264.0	4272.5	4271.5	4225.6	4145.5	4149.8	4143.3	4075.0	3913.8	4403.8	5024.1
42.5°	4615.2	4574.7	4469.0	4514.9	4561.8	4582.1	4625.9	4560.8	4339.8	4792.4	5373.2
45°	5008.1	4931.2	4692.1	4713.4	4887.5	4925.9	5167.2	5077.5	4802.1	5238.7	5784.2
47.5°	5255.8	5180.0	4978.2	4973.9	5204.5	5241.9	5668.9	5635.9	5222.7	5720.2	6286.0
50°	5476.8	5466.1	5238.7	5293.2	5518.4	5573.9	6215.6	6184.6	5642.3	6288.2	6832.6
52.5°	5804.5	5718.1	5536.6	5648.7	5946.5	6019.1	6757.9	6667.2	6027.7	6789.9	7363.2
55°	5951.9	5931.6	5920.9	6018.1	6426.9	6479.3	7285.3	7077.1	6356.5	7214.8	7766.8
57.5°	6345.8	6308.4	6414.1	6480.3	6992.8	7072.8	7836.2	7505.2	6644.7	7552.2	7963.2
60°	6856.1	6835.8	6933.0	7052.6	7624.8	7746.5	8463.9	7870.3	6876.4	7721.9	7855.4
62.5°	7618.4	7616.2	7598.1	7854.3	8520.5	8632.6	9184.5	8225.8	6912.7	7594.9	7298.1
65°	8711.6	8673.2	8515.2	8794.9	9635.1	9766.4	9935.1	8424.4	6693.8	6942.6	6145.1
67.5°	9855.0	9852.9	9724.8	10087.7	11235.4	11371.0	10873.5	8380.6	6086.4	5624.1	4364.3
70°	10803.0	10757.1	10920.5	11887.7	13279.9	13436.8	11694.5	7865.0	4848.0	3714.2	2593.2
72.5°	11030.4	11032.6	11372.1	13275.6	15243.2	15267.7	11990.2	6374.6	3244.4	2048.7	1297.1
74°	10330.1	10348.2	10874.6	13345.0	15609.4	15498.3	11234.3	5010.2	2193.9	1337.7	935.2
75°	9429.0	9314.8	10076.0	12882.7	15229.3	15109.7	10349.3	4020.6	1674.0	1068.7	818.8
77.5°	5041.2	5157.6	6331.9	9613.7	12372.4	12234.7	7017.3	1928.1	904.3	744.1	589.3
80°	1794.6	1979.3	2782.2	5030.5	7932.3	7975.0	3349.1	884.0	636.3	548.7	416.4
82.5°	732.4	752.7	1194.6	2232.3	4028.0	4066.5	1367.6	525.3	454.8	377.9	248.8
85°	286.1	294.7	528.5	1003.5	1718.8	1830.9	472.9	277.6	279.7	216.7	127.0
87.5°	96.1	108.9	216.7	334.2	584.0	572.2	137.7	82.2	100.4	93.9	39.5
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: P452768
 CATALOG NUMBER: GALN-SA3D-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3	2942.3
2.5°	2951.9	2972.2	2986.1	3001.0	3014.9	3019.2	3016.0	3025.6	3026.6	3027.7	3028.8
5°	2969.0	2996.7	3023.4	3038.4	3044.8	3039.5	3021.3	3011.7	3003.2	2996.7	2998.9
7.5°	2992.5	3032.0	3056.5	3062.9	3045.9	3021.3	2976.5	2941.2	2918.8	2903.9	2902.8
10°	3028.8	3067.2	3087.5	3069.3	3022.4	2962.6	2892.1	2825.9	2775.8	2760.8	2759.7
12.5°	3074.7	3118.5	3117.4	3064.0	2981.8	2875.0	2760.8	2683.9	2615.6	2581.5	2595.3
15°	3134.5	3167.6	3136.6	3040.5	2910.3	2764.0	2623.1	2518.5	2441.6	2405.3	2407.4
17.5°	3203.9	3232.7	3150.5	2998.9	2809.9	2622.0	2458.7	2359.4	2298.5	2271.8	2269.7
20°	3290.3	3298.9	3150.5	2926.3	2680.7	2456.5	2300.7	2231.3	2197.1	2183.2	2187.5
22.5°	3383.2	3366.1	3133.4	2823.8	2511.0	2283.6	2179.0	2148.0	2130.9	2128.8	2130.9
25°	3487.8	3439.8	3098.2	2685.0	2333.8	2134.1	2073.3	2078.6	2081.8	2081.8	2089.3
27.5°	3616.0	3519.9	3039.5	2509.9	2126.7	1995.3	1978.3	2015.6	2032.7	2035.9	2041.2
30°	3784.6	3607.4	2942.3	2291.1	1950.5	1870.4	1900.3	1950.5	1969.7	1981.5	1979.3
32.5°	3985.3	3703.5	2811.0	2072.2	1808.5	1782.9	1819.2	1870.4	1891.8	1898.2	1889.6
35°	4221.3	3812.4	2638.0	1867.2	1684.7	1699.6	1742.3	1758.3	1777.6	1777.6	1781.8
37.5°	4475.4	3899.9	2426.7	1679.3	1588.6	1643.0	1674.0	1659.0	1650.5	1639.8	1645.2
40°	4733.7	3965.1	2152.3	1493.6	1492.5	1584.3	1592.9	1550.2	1516.0	1505.3	1500.0
42.5°	4959.0	4005.6	1904.6	1349.4	1401.8	1526.7	1533.1	1464.7	1410.3	1378.3	1367.6
45°	5224.8	4052.6	1662.3	1229.9	1317.4	1480.8	1496.8	1405.0	1324.9	1257.6	1240.5
47.5°	5588.9	4159.4	1471.2	1137.0	1256.6	1451.9	1474.4	1355.8	1250.2	1162.6	1148.7
50°	5999.9	4305.6	1322.8	1074.0	1209.6	1426.3	1454.1	1305.7	1180.8	1083.6	1072.9
52.5°	6376.8	4384.6	1194.6	1017.4	1163.7	1379.3	1427.4	1269.4	1112.4	1004.6	995.0
55°	6582.8	4256.5	1068.7	961.9	1100.7	1318.5	1390.0	1219.2	1046.2	963.0	949.1
57.5°	6610.6	3991.7	954.4	902.1	1034.5	1243.8	1320.6	1158.3	1003.5	934.1	922.4
60°	6396.0	3596.7	865.8	853.0	967.2	1159.4	1242.7	1105.0	959.8	902.1	890.4
62.5°	5862.2	3167.6	803.9	808.2	898.9	1070.8	1185.0	1053.7	918.1	866.9	856.2
65°	4944.0	2614.5	744.1	762.3	838.1	1001.4	1132.7	1011.0	876.5	840.2	830.6
67.5°	3434.5	1887.5	695.0	714.2	780.4	930.9	1071.9	965.1	829.5	810.3	795.4
70°	1901.4	1161.5	637.4	659.8	720.6	851.9	1003.5	895.7	761.2	752.7	731.3
72.5°	999.3	739.8	572.2	596.8	639.5	750.5	898.9	819.9	693.9	657.6	629.9
74°	780.4	606.4	528.5	554.1	582.9	690.7	837.0	765.5	645.9	603.2	581.8
75°	680.1	540.2	491.1	524.2	549.8	650.2	789.0	727.0	619.2	578.6	559.4
77.5°	480.4	404.6	401.4	440.9	454.8	570.1	711.0	661.9	551.9	509.2	491.1
80°	337.4	303.2	318.1	342.7	361.9	503.9	659.8	572.2	452.7	402.5	396.1
82.5°	219.9	198.6	227.4	249.8	256.2	371.5	532.7	434.5	329.9	268.0	248.8
85°	101.4	99.3	130.2	127.0	126.0	181.5	316.0	254.1	190.0	142.0	133.4
87.5°	25.6	24.6	32.0	26.7	32.0	27.8	28.8	7.5	1.1	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)