

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: P947713

Luminaire Tested: **GALN-SB3A-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947713
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12408 lumens
Efficiency: N/A
Efficacy: 146.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 84.7
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



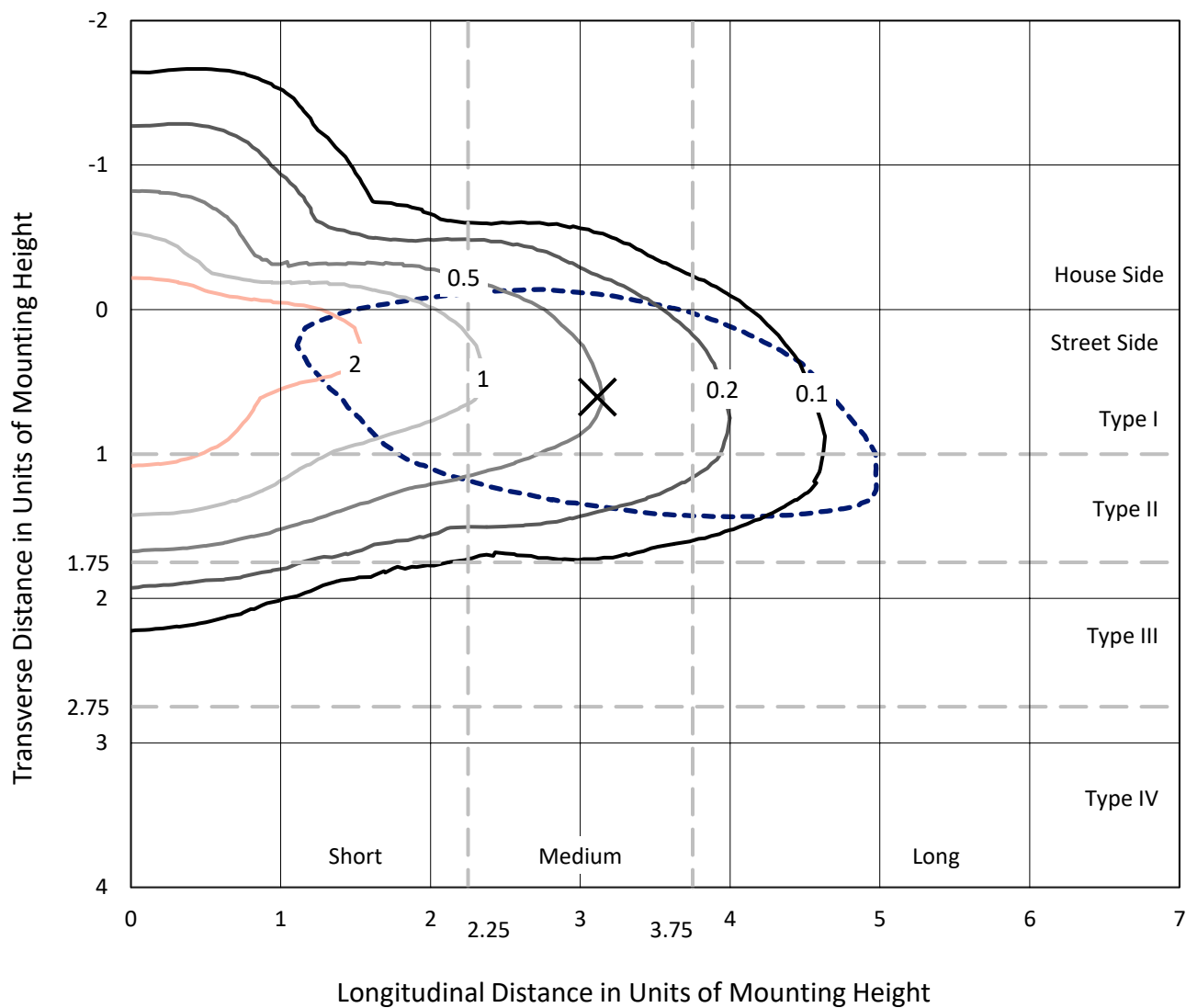
REPORT NUMBER: P947713

CATALOG NUMBER: GALN-SB3A-727-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

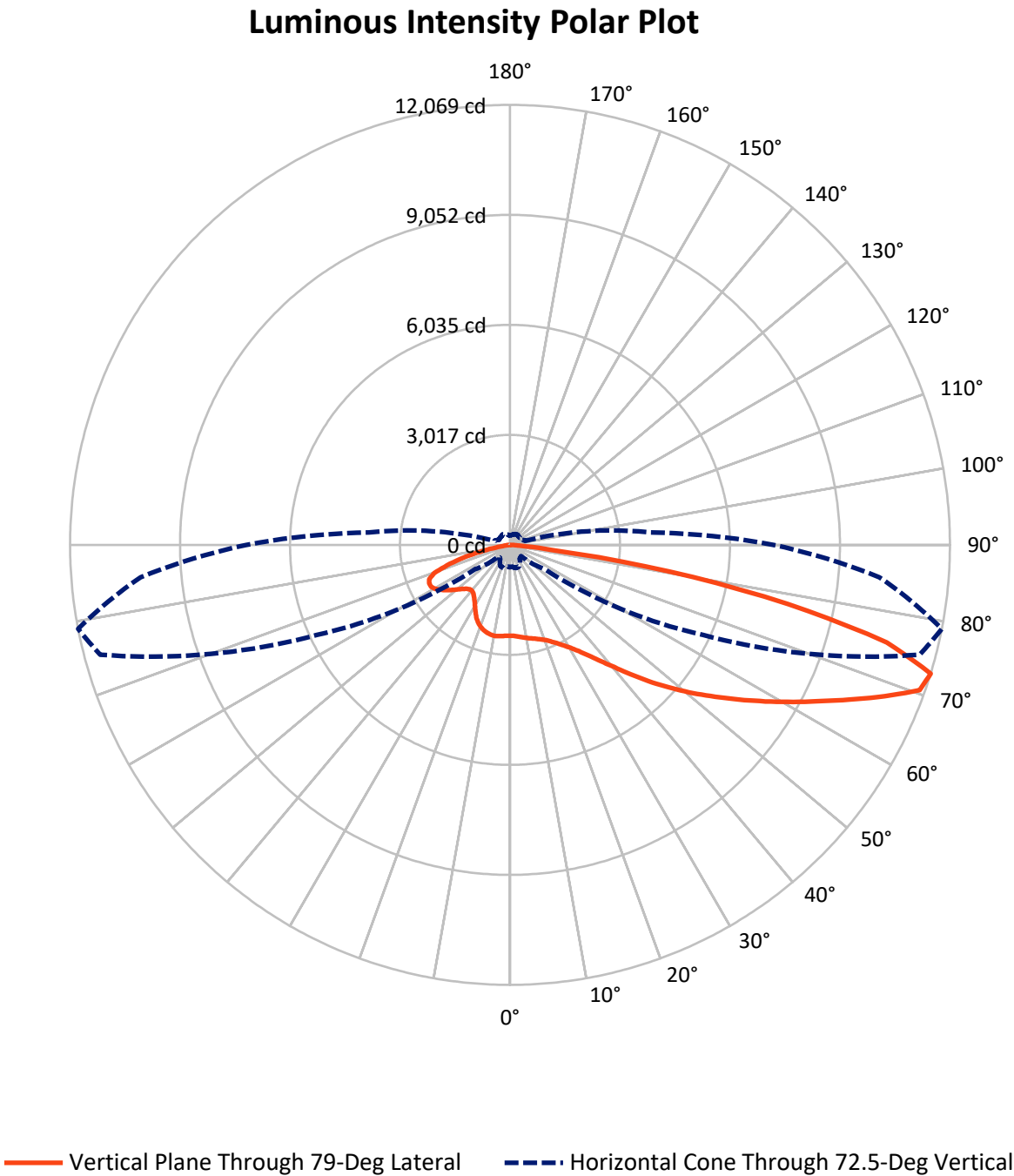
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Medium - N/A

REPORT NUMBER: P947713
CATALOG NUMBER: GALN-SB3A-727-U-SL2



REPORT NUMBER: P947713

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2730.4	0.0	2730.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	9677.6	0.0	9677.6
	% Fixture	78.0	0.0	78.0
Total	Lumens	12408.0	0.0	12408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	1.8
10°-20°	591.1	4.8
20°-30°	953.8	7.7
30°-40°	1431.6	11.5
40°-50°	2030.7	16.4
50°-60°	2564.6	20.7
60°-70°	2604.6	21.0
70°-80°	1775.2	14.3
80°-90°	230.3	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°	12408.0	100.0
0°-180°	12408.0	100.0

Coefficient of Utilization



REPORT NUMBER: P947713

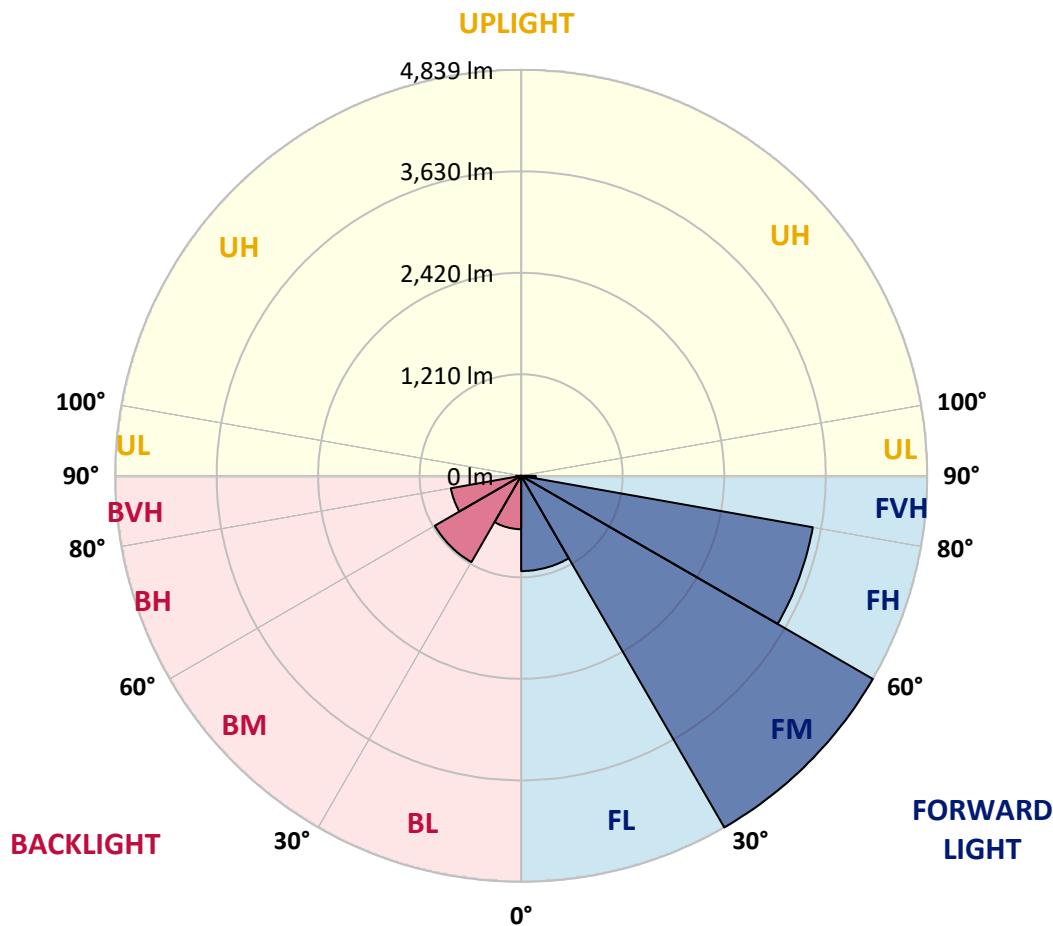
CATALOG NUMBER: GALN-SB3A-727-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1135.0	9.1			
FM	(30°-60°)	4839.4	39.0			
FH	(60°-80°)	3529.7	28.4			G2/5000
FVH	(80°-90°)	173.5	1.4			G2/225
BL	(0°-30°)	636.0	5.1	B2/1000		
BM	(30°-60°)	1187.5	9.6	B2/2500		
BH	(60°-80°)	850.2	6.9	B2/1000		G2/1000
BVH	(80°-90°)	56.8	0.5			G1/100
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: P947713

CATALOG NUMBER: GALN-SB3A-727-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8
2.5°	2492.1	2480.3	2487.5	2484.9	2488.2	2492.1	2493.4	2495.4	2501.9	2501.3	2500.6
5°	2486.9	2475.0	2484.9	2481.6	2490.1	2499.3	2507.2	2514.4	2524.9	2529.5	2522.9
7.5°	2475.7	2467.8	2477.7	2487.5	2503.3	2517.0	2528.2	2544.6	2559.7	2562.3	2566.9
10°	2410.7	2404.8	2427.8	2453.4	2496.7	2534.1	2558.4	2577.4	2593.8	2596.5	2603.0
12.5°	2343.1	2335.9	2361.5	2396.3	2466.5	2534.1	2585.3	2610.2	2624.7	2633.2	2643.1
15°	2332.0	2326.0	2340.5	2370.7	2429.1	2516.4	2603.7	2649.6	2662.1	2671.9	2675.9
17.5°	2385.8	2374.6	2380.5	2391.0	2425.2	2500.0	2618.1	2694.3	2713.3	2723.8	2723.8
20°	2510.5	2494.7	2485.5	2464.5	2458.6	2502.6	2616.8	2748.1	2773.0	2786.1	2789.4
22.5°	2676.5	2666.0	2646.3	2593.2	2535.4	2534.8	2641.7	2817.0	2863.6	2876.1	2868.2
25°	2877.4	2861.6	2836.7	2764.5	2653.6	2598.4	2683.8	2904.9	2983.0	2986.3	2963.3
27.5°	3108.4	3084.8	3050.6	2955.5	2805.8	2698.2	2748.1	3006.0	3120.2	3118.9	3071.6
30°	3351.9	3328.3	3292.2	3176.7	2988.3	2832.7	2837.3	3115.0	3283.0	3275.8	3195.0
32.5°	3529.8	3512.0	3504.8	3415.6	3198.3	2991.6	2939.7	3235.7	3483.8	3477.3	3364.4
35°	3666.3	3643.3	3651.8	3606.6	3427.4	3169.4	3065.1	3379.5	3728.0	3727.3	3586.9
37.5°	3801.5	3781.1	3788.4	3758.2	3639.4	3395.2	3218.0	3555.4	4030.5	4045.0	3856.0
40°	3924.9	3903.2	3932.1	3903.9	3804.1	3635.4	3391.9	3754.2	4381.0	4408.6	4181.5
42.5°	3999.0	3982.0	4029.9	4030.5	3947.2	3838.2	3582.9	3973.4	4786.6	4848.3	4581.9
45°	4024.6	4018.7	4090.9	4106.0	4073.9	3955.7	3754.9	4212.4	5223.8	5334.0	5038.0
47.5°	3997.1	3985.9	4085.7	4141.5	4167.1	4010.9	3897.3	4470.9	5670.1	5831.5	5535.5
50°	3857.9	3836.3	3984.6	4102.1	4193.3	4047.0	4041.0	4769.6	6177.4	6354.0	6035.6
52.5°	3607.9	3591.5	3760.1	3964.3	4135.6	4064.7	4202.5	5095.8	6659.2	6887.6	6548.2
55°	3288.2	3266.6	3452.3	3718.8	3991.8	4058.8	4364.0	5460.7	7227.6	7459.2	7077.9
57.5°	2781.5	2738.2	2973.2	3288.2	3757.5	4051.6	4532.0	5823.7	7805.1	8082.8	7643.0
60°	2042.5	1978.2	2266.3	2639.8	3299.4	3981.3	4740.0	6230.6	8498.2	8748.3	8260.0
62.5°	1189.3	1151.9	1340.2	1688.7	2486.9	3567.8	4856.9	6703.8	9179.5	9442.0	8866.4
65°	923.5	913.0	929.4	956.3	1384.2	2671.3	4496.5	7165.2	10045.9	10229.6	9498.5
67.5°	844.7	836.8	844.0	793.5	702.3	1487.9	3557.3	7282.0	10973.9	11085.5	10051.8
70°	750.8	741.7	765.3	722.0	552.6	676.7	2298.5	6858.0	11712.3	11921.7	10472.5
72.5°	611.7	601.2	656.3	636.6	465.3	434.5	1154.5	5850.6	11634.8	12069.3	10171.2
75°	469.9	464.0	529.7	546.1	379.4	342.0	553.9	4348.9	10238.8	10676.6	8766.0
77.5°	364.9	360.3	393.8	453.5	305.9	265.2	340.6	2758.6	7715.9	7792.7	6040.9
80°	273.7	260.6	291.4	351.1	238.2	193.6	231.0	1608.7	4877.2	4421.1	2629.3
82.5°	171.3	164.7	190.3	234.3	168.0	133.2	150.3	888.7	1954.6	1151.2	507.3
85°	97.8	95.2	103.7	133.9	91.2	76.8	86.0	392.5	357.0	245.5	152.9
87.5°	39.4	38.1	47.3	59.7	33.5	28.2	30.2	94.5	78.8	72.9	50.5
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: P947713

CATALOG NUMBER: GALN-SB3A-727-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8	2490.8
2.5°	2498.0	2498.0	2488.8	2474.4	2458.0	2447.5	2430.4	2425.8	2408.1	2402.8	2411.4
5°	2528.2	2522.9	2494.7	2454.0	2398.2	2347.1	2290.6	2255.2	2205.3	2187.6	2200.7
7.5°	2566.3	2551.8	2503.3	2414.0	2297.2	2182.3	2062.9	1972.3	1885.6	1854.8	1858.7
10°	2601.1	2580.7	2498.0	2341.8	2139.6	1940.8	1750.4	1617.2	1516.1	1474.8	1484.0
12.5°	2635.8	2598.4	2463.2	2221.7	1915.8	1646.1	1443.3	1339.6	1277.2	1227.3	1243.8
15°	2668.7	2616.1	2409.4	2060.9	1670.4	1396.7	1247.0	1164.3	1114.5	1081.6	1087.5
17.5°	2706.7	2631.2	2328.7	1856.8	1436.7	1224.1	1102.0	1052.1	1042.3	1038.3	1040.9
20°	2759.9	2645.0	2222.3	1628.4	1264.8	1086.2	1023.2	1018.6	1018.0	1016.0	1022.6
22.5°	2817.0	2661.4	2081.9	1421.0	1118.4	1000.3	989.1	979.9	974.0	973.3	980.6
25°	2884.6	2666.7	1906.0	1251.0	993.7	959.6	946.4	932.7	928.7	928.7	932.7
27.5°	2950.2	2649.0	1701.2	1103.3	923.5	922.1	905.1	900.5	899.8	901.8	907.1
30°	3015.9	2615.5	1497.8	966.8	882.8	882.8	876.9	880.1	882.8	889.3	893.9
32.5°	3104.5	2580.0	1327.8	865.7	847.3	840.8	846.7	853.2	855.9	864.4	871.6
35°	3234.4	2555.1	1192.6	810.6	810.6	802.0	805.3	804.0	798.1	794.2	803.4
37.5°	3406.4	2553.8	1081.0	785.0	779.7	778.4	779.1	770.5	747.6	720.0	720.7
40°	3613.1	2589.2	995.0	767.3	763.3	771.2	767.3	744.3	681.3	633.4	632.0
42.5°	3890.7	2690.3	939.9	745.6	757.4	767.3	751.5	672.1	629.4	597.3	596.0
45°	4217.6	2854.4	911.6	722.6	746.3	758.1	681.9	647.1	613.0	574.3	571.7
47.5°	4587.8	3061.1	905.1	701.0	721.3	728.5	652.4	636.6	597.9	555.9	552.6
50°	4990.8	3306.0	922.8	675.4	685.2	660.3	642.6	628.1	588.1	546.7	542.1
52.5°	5407.5	3575.7	958.2	640.6	649.1	621.5	638.6	626.1	582.2	526.4	522.4
55°	5817.1	3847.4	992.4	599.9	612.4	586.8	627.5	618.3	555.3	492.3	489.0
57.5°	6233.2	4117.8	1025.9	563.8	576.9	553.3	609.7	597.3	525.1	460.7	459.4
60°	6665.7	4380.4	1041.6	529.0	538.2	522.4	582.8	561.2	490.9	428.6	426.6
62.5°	7070.7	4598.9	1016.0	494.2	500.1	493.6	547.4	518.5	456.8	392.5	391.8
65°	7477.0	4728.9	937.2	460.1	461.4	458.1	497.5	472.6	416.8	361.0	357.0
67.5°	7845.2	4801.7	811.9	423.3	420.1	418.7	450.9	422.7	378.0	329.5	325.5
70°	7923.3	4616.7	620.2	380.0	380.0	376.7	399.7	370.8	335.4	296.0	294.7
72.5°	7236.7	3883.5	440.4	330.8	336.0	329.5	348.5	324.2	292.1	265.8	257.9
75°	5835.5	2847.8	320.3	280.3	289.4	278.3	296.0	278.9	251.4	250.7	225.8
77.5°	4009.5	1760.9	232.3	231.0	237.6	223.2	243.5	234.3	209.4	198.2	185.7
80°	1711.1	702.3	169.3	178.5	178.5	165.4	189.0	191.6	170.0	164.7	164.7
82.5°	340.6	199.5	118.8	122.7	115.5	111.6	133.9	148.3	204.8	227.7	228.4
85°	102.4	73.5	71.5	66.9	59.1	59.7	78.8	149.0	183.8	105.0	90.6
87.5°	28.2	18.4	19.0	15.1	12.5	16.4	26.9	112.9	61.7	26.3	22.3
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)