

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: P452289

Luminaire Tested: **GALN-SA3B-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452289
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13905 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

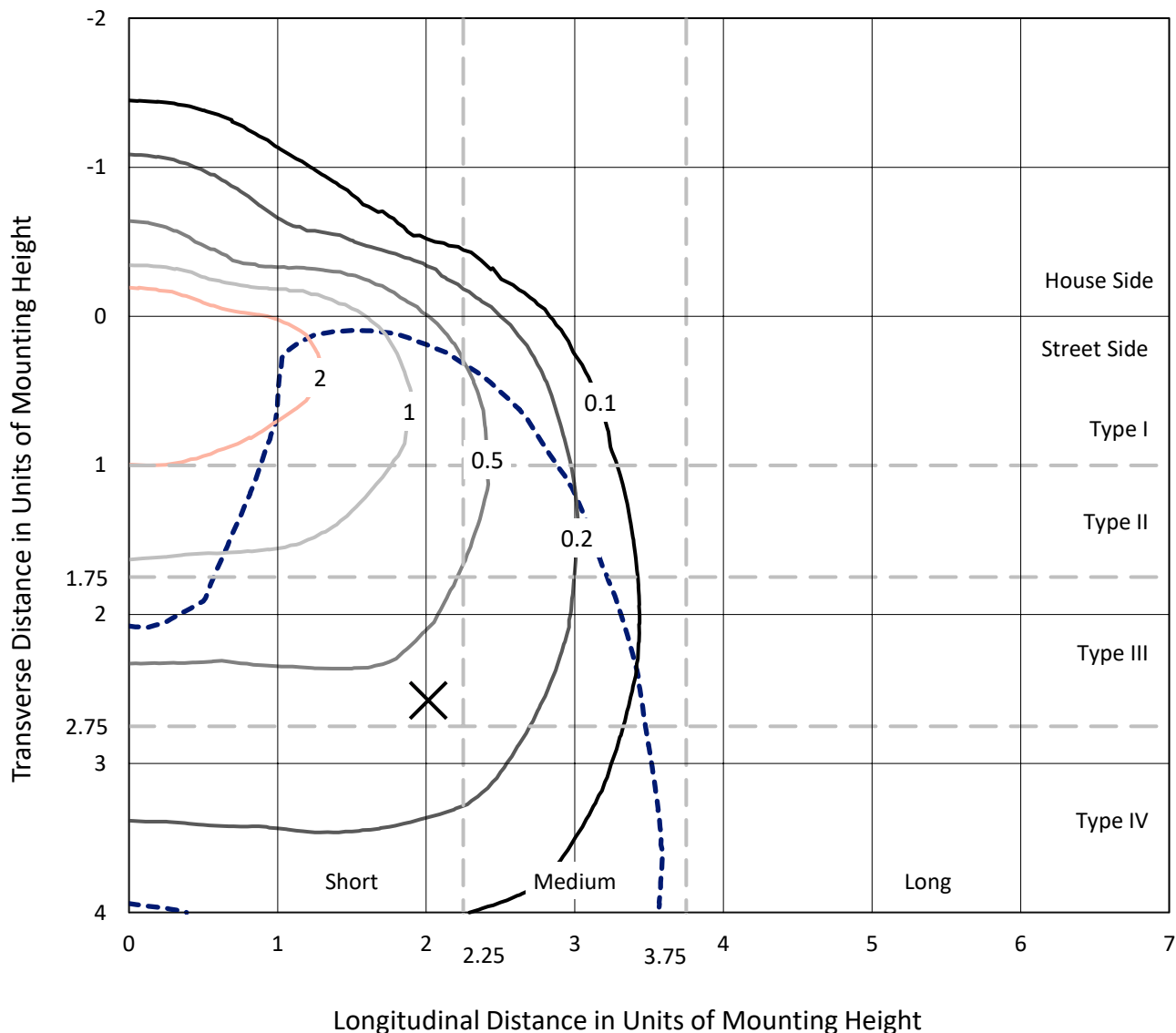
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452289
 CATALOG NUMBER: GALN-SA3B-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

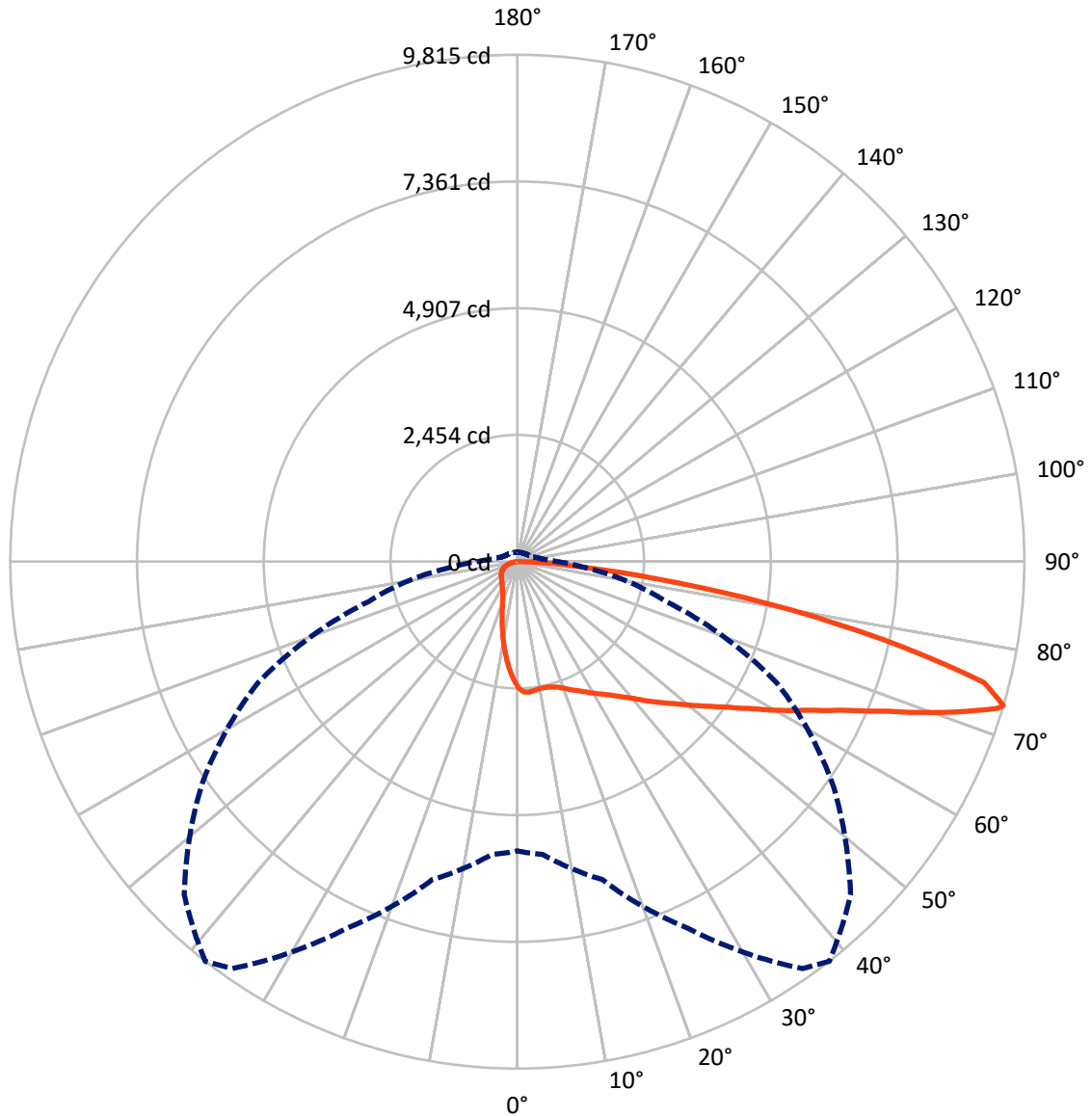
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P452289
CATALOG NUMBER: GALN-SA3B-727-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P452289

CATALOG NUMBER: GALN-SA3B-727-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1869.2	0.0	1869.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	12035.8	0.0	12035.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	13905.0	0.0	13905.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.2	1.5
10°-20°	546.8	3.9
20°-30°	851.5	6.1
30°-40°	1248.9	9.0
40°-50°	1852.6	13.3
50°-60°	2624.8	18.9
60°-70°	3329.7	23.9
70°-80°	2771.7	19.9
80°-90°	465.7	3.3
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°	13905.0	100.0
0°-180°	13905.0	100.0



REPORT NUMBER: P452289

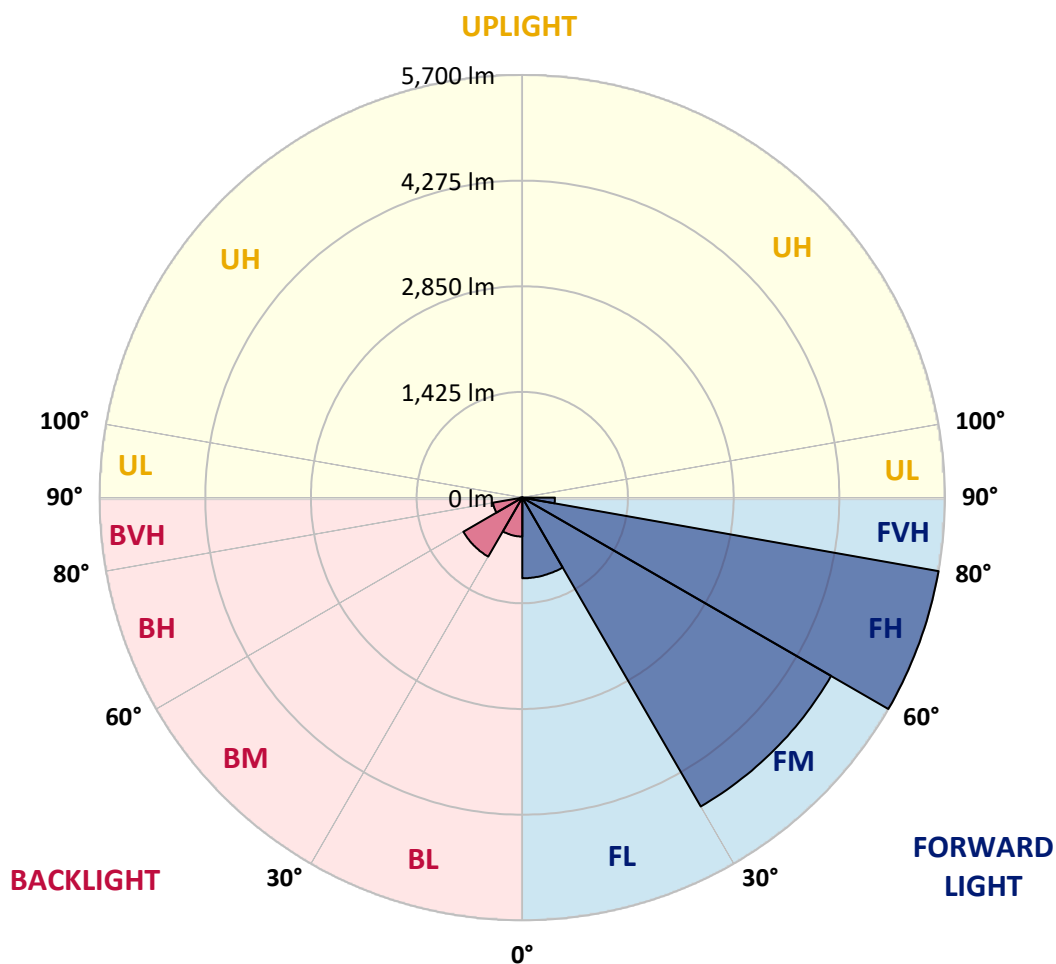
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.0	7.8			
FM (30°-60°)	4808.7	34.6			
FH (60°-80°)	5699.6	41.0			G3/7500
FVH (80°-90°)	440.4	3.2			G3/500
BL (0°-30°)	524.5	3.8	B2/1000		
BM (30°-60°)	917.7	6.6	B1/1000		
BH (60°-80°)	401.8	2.9	B1/500		G1/500
BVH (80°-90°)	25.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P452289

CATALOG NUMBER: GALN-SA3B-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9
2.5°	2541.0	2553.6	2547.3	2538.7	2533.2	2527.7	2519.8	2497.1	2479.0	2459.4	2428.7
5°	2559.9	2567.7	2562.2	2551.2	2538.7	2533.2	2518.3	2488.4	2459.4	2426.4	2380.8
7.5°	2548.9	2552.0	2545.7	2532.4	2521.4	2511.2	2493.9	2460.9	2425.6	2385.6	2325.9
10°	2509.6	2521.4	2521.4	2510.4	2499.4	2493.9	2476.6	2445.2	2413.0	2367.5	2296.8
12.5°	2477.4	2490.0	2500.2	2497.1	2496.3	2496.3	2482.9	2459.4	2421.7	2378.5	2294.5
15°	2455.4	2470.4	2492.3	2504.9	2512.8	2515.1	2509.6	2489.2	2450.7	2400.5	2303.9
17.5°	2450.7	2468.8	2508.8	2536.3	2556.7	2555.9	2554.4	2526.1	2483.7	2431.9	2315.7
20°	2471.9	2495.5	2551.2	2594.4	2624.3	2618.8	2610.1	2573.2	2523.8	2465.6	2326.7
22.5°	2535.5	2559.9	2621.1	2668.2	2697.3	2697.3	2671.4	2622.7	2570.1	2504.9	2341.6
25°	2626.6	2653.3	2718.5	2766.4	2779.7	2769.5	2743.6	2684.7	2624.3	2561.4	2373.0
27.5°	2738.1	2770.3	2830.8	2870.8	2866.9	2859.0	2832.4	2757.0	2696.5	2639.2	2426.4
30°	2877.1	2900.7	2963.5	2972.9	2958.8	2957.2	2919.5	2844.1	2787.6	2743.6	2502.6
32.5°	3008.2	3029.4	3079.7	3083.6	3058.5	3061.6	3026.3	2957.2	2925.0	2909.3	2630.5
35°	3147.2	3158.2	3201.4	3196.7	3180.2	3177.9	3163.7	3097.8	3108.0	3136.2	2811.9
37.5°	3263.4	3285.4	3309.8	3313.7	3312.9	3320.8	3330.2	3298.8	3357.7	3446.4	3049.9
40°	3370.2	3389.1	3425.2	3437.8	3468.4	3484.1	3516.3	3517.1	3652.9	3799.0	3342.8
42.5°	3442.5	3474.7	3542.2	3565.0	3639.6	3686.7	3734.6	3785.6	3982.7	4170.4	3688.3
45°	3505.3	3547.7	3660.0	3730.7	3832.0	3889.3	3990.6	4097.4	4380.8	4626.6	4039.3
47.5°	3600.3	3638.0	3766.8	3891.6	4044.8	4110.7	4262.3	4421.7	4792.3	5061.6	4375.3
50°	3732.2	3755.0	3886.1	4089.5	4285.0	4369.8	4570.1	4800.2	5232.0	5491.2	4670.6
52.5°	3901.1	3910.5	4014.9	4285.8	4543.4	4648.6	4914.0	5182.6	5616.8	5864.2	4904.6
55°	4100.5	4084.8	4166.5	4493.9	4838.6	4976.0	5261.1	5569.7	6049.5	6165.7	5075.0
57.5°	4297.6	4273.3	4338.4	4746.8	5203.0	5368.7	5700.8	5968.6	6435.8	6447.6	5194.3
60°	4506.5	4488.4	4566.2	5043.6	5649.8	5846.1	6153.1	6382.4	6809.6	6643.9	5213.2
62.5°	4720.8	4691.8	4802.5	5377.3	6153.1	6331.4	6629.0	6822.1	7176.3	6716.9	5031.8
65°	4928.9	4915.6	5086.8	5773.8	6726.3	6928.9	7217.9	7349.0	7470.0	6607.0	4581.9
67.5°	5150.4	5177.1	5450.3	6303.1	7473.9	7728.3	8040.0	7916.8	7554.0	6086.4	3858.7
70°	5488.0	5505.3	5927.8	6996.5	8437.4	8744.4	8895.2	8118.6	7148.8	5097.8	2900.7
72.5°	5633.3	5709.5	6354.1	7724.4	9532.0	9719.7	9182.6	7668.6	5955.2	3462.9	1524.1
73°	5601.1	5692.2	6373.8	7835.1	9617.6	9814.7	9121.3	7437.0	5535.9	2982.3	1306.6
75°	5199.8	5312.1	6118.6	7742.4	9451.1	9333.3	8136.6	6338.4	3740.9	1356.1	595.2
77.5°	4102.9	4135.1	4848.1	6252.1	7442.5	7224.2	6089.5	3961.5	1528.1	504.1	337.7
80°	2058.1	2176.7	2732.6	3581.5	4976.8	4905.4	3843.7	1873.6	636.8	296.0	223.8
82.5°	990.2	1074.2	1331.0	1746.4	2749.9	2684.7	1903.4	1023.9	404.4	172.8	131.9
85°	637.6	700.4	847.3	833.1	1130.7	1079.7	855.1	775.0	239.5	90.3	91.9
87.5°	420.9	460.9	552.8	442.1	411.5	372.2	377.7	436.6	47.1	34.6	12.6
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: P452289
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9	2442.9
2.5°	2416.2	2406.0	2372.2	2339.2	2307.8	2278.0	2258.3	2232.4	2215.2	2219.9	2226.9
5°	2355.7	2332.9	2273.3	2215.2	2160.2	2095.0	2042.4	2000.0	1967.8	1956.0	1953.7
7.5°	2292.1	2253.6	2168.0	2068.3	1974.9	1894.0	1800.5	1754.2	1700.0	1681.2	1674.9
10°	2253.6	2201.8	2081.7	1942.7	1802.1	1667.8	1566.5	1484.1	1409.5	1395.4	1388.3
12.5°	2242.6	2174.3	2012.6	1833.5	1646.6	1481.7	1331.8	1223.4	1151.2	1134.7	1110.3
15°	2236.4	2151.5	1948.2	1723.6	1486.5	1285.4	1127.6	1001.2	935.2	891.2	892.0
17.5°	2230.9	2125.6	1875.9	1603.5	1348.3	1116.6	942.3	828.4	768.0	744.4	742.0
20°	2223.0	2095.0	1792.7	1477.0	1190.4	962.7	804.9	720.1	679.2	659.6	658.8
22.5°	2219.9	2065.2	1711.0	1348.3	1050.6	844.1	713.8	654.1	628.2	614.8	614.8
25°	2227.7	2044.0	1625.4	1225.8	926.6	742.8	651.0	610.1	595.2	588.1	585.8
27.5°	2252.1	2034.5	1540.6	1103.3	812.7	673.7	608.6	580.3	569.3	563.8	564.6
30°	2298.4	2033.8	1457.4	982.3	727.9	621.1	574.8	555.2	546.5	543.4	542.6
32.5°	2373.0	2051.0	1375.7	882.6	656.5	577.1	543.4	529.2	525.3	523.0	522.2
35°	2499.4	2099.7	1294.9	791.5	601.5	537.9	513.5	506.5	501.0	503.3	504.1
37.5°	2669.8	2183.7	1217.9	720.1	559.9	508.8	488.4	482.1	479.0	481.4	483.7
40°	2898.3	2304.7	1153.5	662.7	530.0	484.5	466.4	460.9	457.8	461.7	462.5
42.5°	3150.4	2444.4	1100.1	618.0	505.7	464.1	446.8	440.5	438.2	440.5	441.3
45°	3409.5	2607.0	1072.6	585.8	485.3	449.2	431.1	424.0	418.5	417.0	419.3
47.5°	3664.7	2748.3	1071.8	566.2	468.8	435.8	416.2	408.3	401.3	397.3	396.5
50°	3872.8	2860.6	1090.7	557.5	454.7	420.9	401.3	393.4	384.0	376.1	377.7
52.5°	4029.8	2933.6	1099.3	553.6	446.8	405.2	385.6	378.5	367.5	357.3	357.3
55°	4131.1	2950.9	1078.1	549.7	440.5	388.7	367.5	361.2	350.2	340.0	340.0
57.5°	4165.7	2897.5	1002.0	540.2	434.2	374.6	349.4	343.9	335.3	325.1	323.5
60°	4085.6	2716.9	868.5	512.0	421.7	359.6	329.8	327.4	324.3	315.7	314.9
62.5°	3777.0	2333.7	723.2	475.1	400.5	343.9	311.7	315.7	318.0	313.3	312.5
65°	3263.4	1894.8	618.0	424.0	372.2	321.9	292.1	302.3	308.6	308.6	307.0
67.5°	2647.0	1455.0	520.6	380.1	336.9	292.1	270.1	278.0	282.7	281.1	285.0
70°	1881.4	985.5	424.0	329.8	292.1	258.3	241.9	241.9	238.7	237.1	237.1
72.5°	912.4	563.0	343.9	275.6	248.9	220.7	207.3	201.8	195.5	194.7	190.8
73°	762.5	504.9	328.2	265.4	238.7	215.2	200.2	191.6	187.7	184.5	183.7
75°	464.1	383.2	274.0	223.8	203.4	185.3	172.0	164.1	160.2	157.8	157.0
77.5°	305.5	285.8	212.8	171.2	155.5	144.5	139.0	131.1	128.8	125.6	125.6
80°	227.7	218.3	152.3	120.9	111.5	102.1	100.5	98.9	92.7	88.7	87.2
82.5°	146.8	155.5	103.7	80.9	70.7	62.8	63.6	66.0	59.7	54.2	52.6
85°	104.4	112.3	62.8	36.9	29.8	25.9	29.1	25.9	26.7	21.2	17.3
87.5°	17.3	29.8	11.0	4.7	2.4	1.6	0.0	0.0	0.0	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)