

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: P452894

Luminaire Tested: **GALN-SA3D-827-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452894  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3D-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16946 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G3

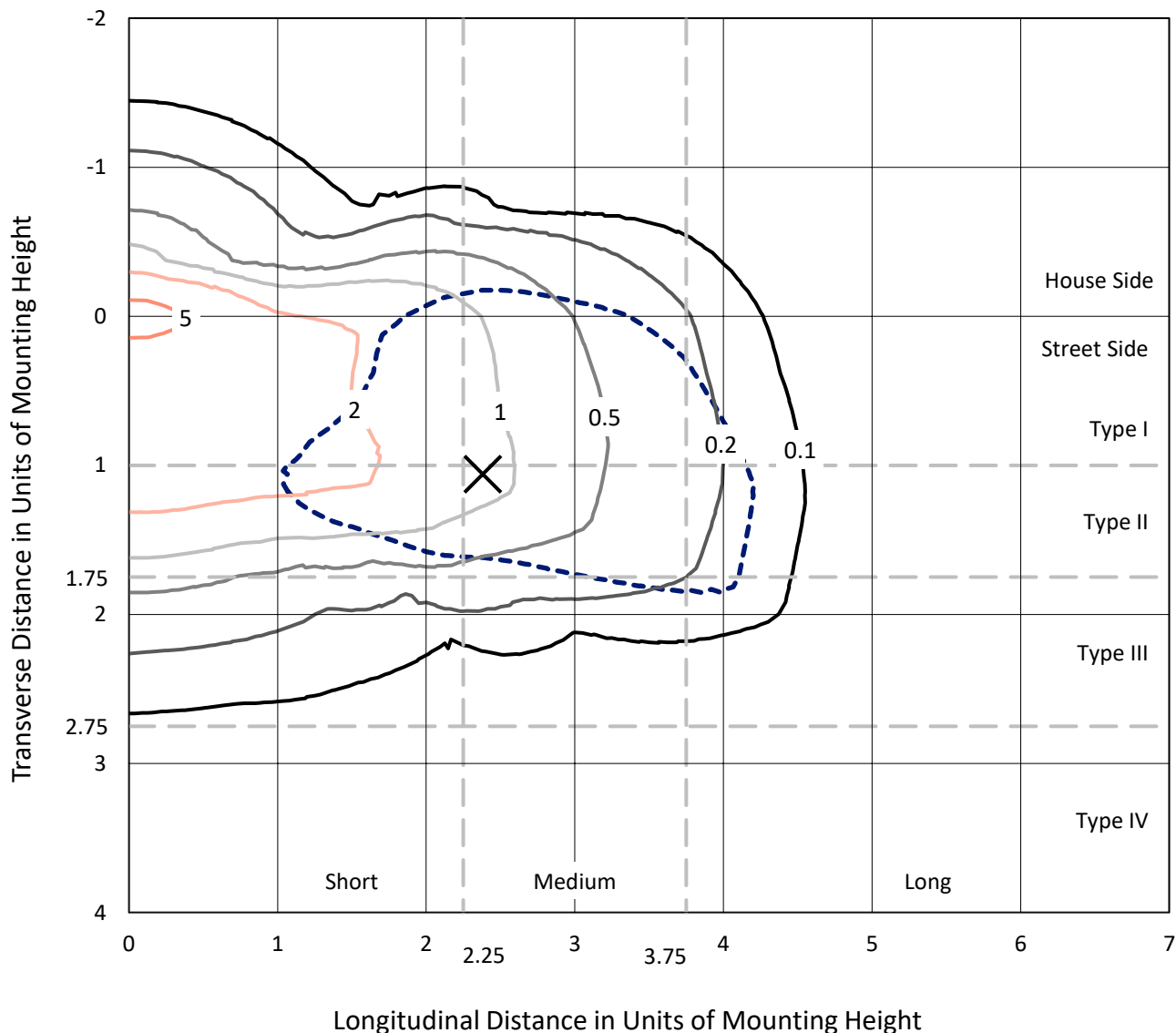
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452894  
 CATALOG NUMBER: GALN-SA3D-827-U-SL2

### Iso-Footcandle Lines of Horizontal Illumination

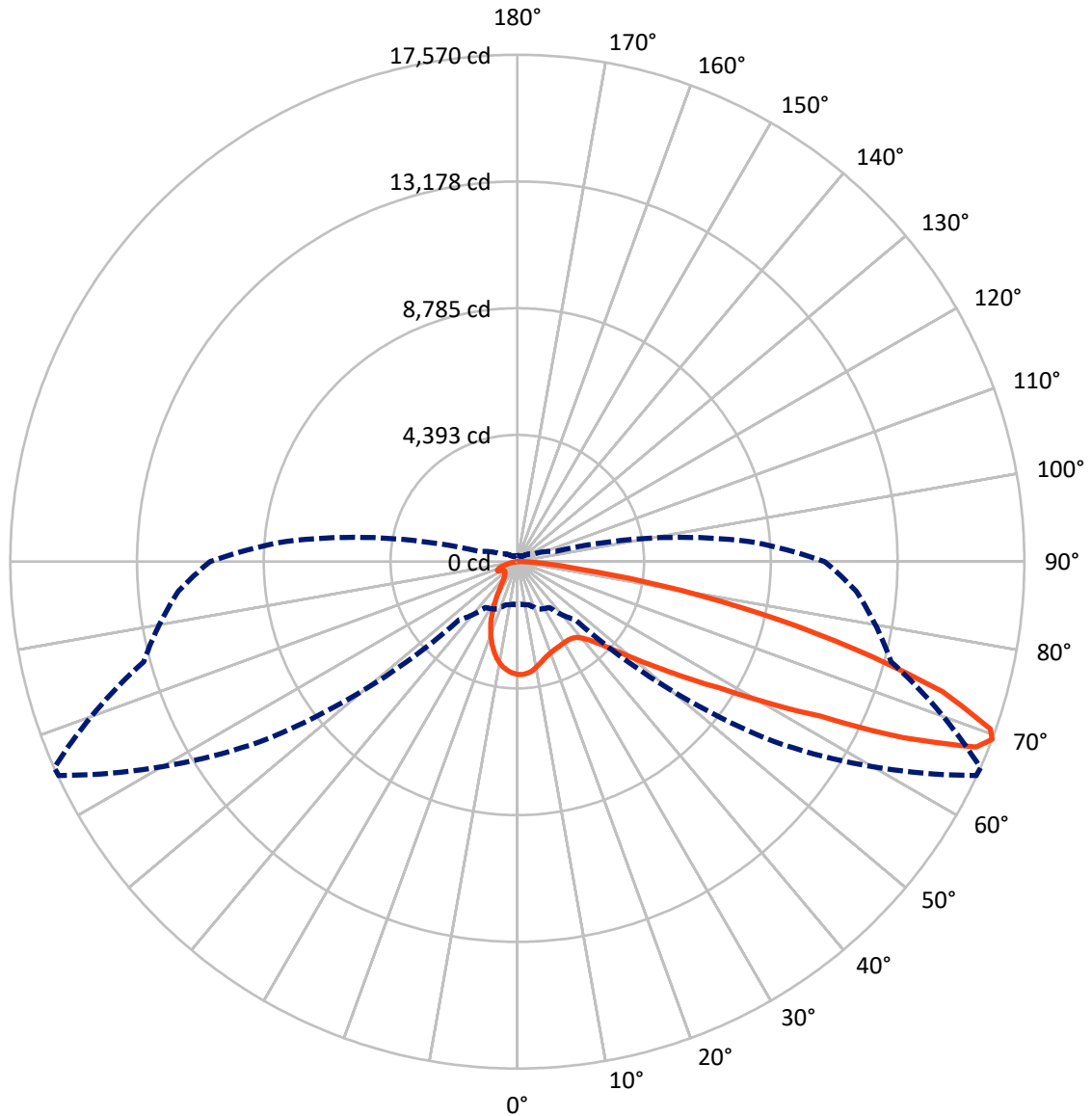
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc  
 Type III - Medium - N/A

REPORT NUMBER: P452894  
CATALOG NUMBER: GALN-SA3D-827-U-SL2

### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P452894

CATALOG NUMBER: GALN-SA3D-827-U-SL2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3186.9	0.0	3186.9
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	13759.1	0.0	13759.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	16946.0	0.0	16946.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.8	2.0
10°-20°	806.0	4.8
20°-30°	1097.3	6.5
30°-40°	1474.6	8.7
40°-50°	2201.8	13.0
50°-60°	3502.3	20.7
60°-70°	4307.6	25.4
70°-80°	2802.7	16.5
80°-90°	413.9	2.4
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°	16946.0	100.0
0°-180°	16946.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452894

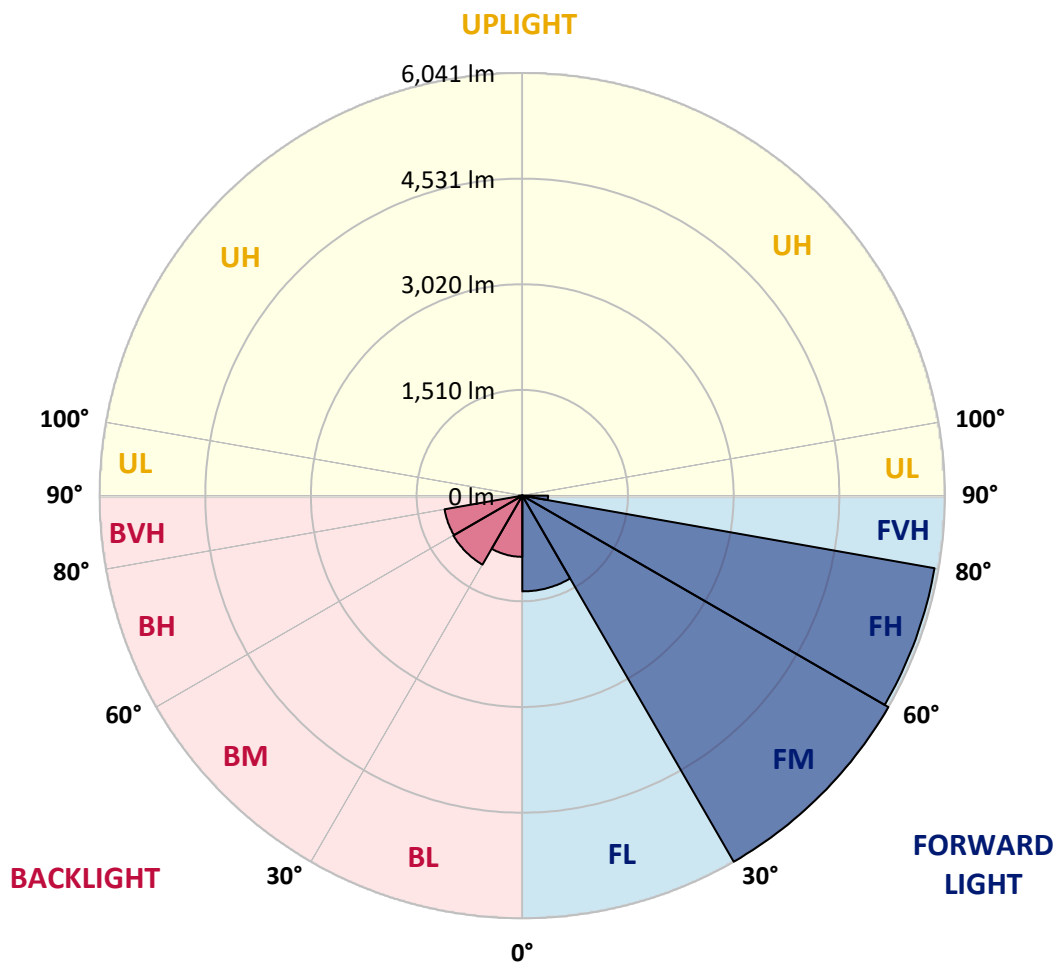
CATALOG NUMBER: GALN-SA3D-827-U-SL2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1368.4	8.1			
FM	(30°-60°)	6040.7	35.6			
FH	(60°-80°)	5982.0	35.3			G3/7500
FVH	(80°-90°)	368.0	2.2			G3/500
BL	(0°-30°)	874.8	5.2	B2/1000		
BM	(30°-60°)	1137.9	6.7	B2/2500		
BH	(60°-80°)	1128.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	45.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Medium





REPORT NUMBER: P452894

CATALOG NUMBER: GALN-SA3D-827-U-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3
2.5°	3776.3	3791.3	3808.2	3827.0	3862.6	3882.3	3896.4	3912.4	3914.2	3922.7	3916.1
5°	3497.6	3515.4	3540.7	3576.4	3629.9	3713.4	3799.8	3870.1	3878.6	3918.0	3929.3
7.5°	3264.8	3275.2	3295.8	3353.1	3429.1	3522.0	3647.7	3790.4	3811.0	3904.9	3937.7
10°	3075.3	3085.6	3110.0	3169.1	3244.2	3360.6	3498.5	3686.2	3703.1	3864.5	3939.6
12.5°	2933.6	2943.0	2969.2	3027.4	3113.7	3222.6	3374.6	3573.6	3598.0	3811.0	3921.7
15°	2825.6	2843.5	2865.1	2912.9	3004.0	3109.1	3256.4	3470.4	3490.1	3754.7	3909.5
17.5°	2779.7	2788.1	2803.1	2847.2	2913.9	3017.1	3165.4	3389.7	3413.1	3715.3	3906.7
20°	2781.5	2790.0	2792.8	2817.2	2865.1	2954.2	3100.6	3325.8	3354.0	3680.6	3911.4
22.5°	2845.4	2846.3	2836.0	2827.5	2846.3	2920.4	3054.6	3278.0	3310.8	3665.6	3915.2
25°	2943.9	2960.8	2945.8	2906.4	2871.6	2907.3	3036.8	3251.7	3282.7	3644.0	3910.5
27.5°	3103.4	3106.2	3094.0	3040.6	2950.5	2924.2	3029.3	3232.0	3258.3	3628.0	3887.0
30°	3317.4	3308.9	3297.7	3238.6	3096.9	2988.9	3045.2	3214.2	3241.4	3604.6	3858.9
32.5°	3534.2	3560.4	3550.1	3480.7	3296.7	3114.7	3096.9	3212.3	3234.8	3586.7	3827.9
35°	3764.1	3776.3	3825.1	3789.4	3600.8	3318.3	3193.5	3241.4	3259.2	3587.7	3806.3
37.5°	3944.3	3977.1	4091.6	4122.6	3945.2	3587.7	3350.2	3324.0	3331.5	3633.6	3814.8
40°	4162.0	4218.3	4365.6	4492.3	4376.0	3937.7	3616.8	3476.9	3486.3	3744.4	3870.1
42.5°	4437.9	4477.3	4675.3	4847.1	4828.3	4400.4	3939.6	3727.5	3732.2	3964.9	4025.0
45°	4760.7	4817.0	5039.4	5297.5	5341.6	4924.0	4406.0	4106.6	4103.8	4307.4	4314.0
47.5°	5173.6	5208.4	5428.9	5710.4	5888.7	5581.9	4971.9	4650.9	4620.9	4806.7	4753.2
50°	5553.7	5608.1	5775.2	6083.0	6526.9	6352.3	5716.0	5356.6	5286.2	5459.9	5369.8
52.5°	5713.2	5770.5	5911.2	6293.2	7074.0	7348.9	6661.1	6198.4	6081.1	6214.4	6181.5
55°	5436.4	5510.5	5641.9	6106.4	7314.2	8498.5	7935.5	7171.6	7086.2	7028.9	7038.3
57.5°	4692.2	4762.6	4940.0	5452.3	7027.1	9332.8	9755.1	8422.5	8239.5	7975.8	8020.9
60°	3571.7	3615.8	3707.8	4275.5	6175.9	9549.6	11821.6	10003.8	9887.4	8919.0	8950.9
62.5°	2536.6	2586.3	2650.2	2933.6	4521.4	8938.7	13439.4	12211.9	11796.2	9895.9	9864.9
65°	2059.9	2026.1	2103.0	2235.4	2653.0	6927.6	13803.5	15276.9	14704.4	11182.5	10752.7
67.5°	1693.9	1658.2	1734.2	1969.8	2017.6	4021.2	12491.6	17266.4	17151.9	12581.7	11654.5
69°	1499.6	1480.9	1547.5	1815.9	1936.9	2855.7	10882.2	17543.2	17570.4	13406.6	11793.4
70°	1351.4	1358.9	1423.6	1738.0	1900.3	2354.6	9300.9	17161.3	17392.1	13818.6	11643.2
72.5°	994.7	1010.7	1100.8	1439.6	1865.6	1997.9	5534.9	14989.7	15398.0	13843.0	10651.3
75°	695.4	687.9	767.6	1083.9	1762.4	1980.1	3250.8	11592.6	12055.2	11965.1	8949.9
77.5°	455.1	467.3	531.2	765.8	1482.7	1965.1	2119.0	8224.5	8524.8	8002.1	5293.8
80°	320.9	320.0	355.7	522.7	1099.9	1888.1	1735.2	5184.0	5107.9	3144.7	1570.0
82.5°	183.9	197.1	238.4	367.9	735.7	1662.0	1596.3	2479.4	2263.5	896.2	530.2
85°	102.3	107.0	141.7	222.4	429.8	1251.9	1393.6	1128.0	1064.2	374.4	228.0
87.5°	32.8	35.7	59.1	112.6	195.2	591.2	789.2	520.8	480.5	135.1	92.0
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: P452894

CATALOG NUMBER: GALN-SA3D-827-U-SL2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3	3913.3
2.5°	3918.9	3930.2	3900.2	3871.1	3844.8	3808.2	3775.4	3748.1	3729.4	3726.6	3717.2
5°	3932.1	3933.0	3875.8	3798.8	3723.7	3641.2	3555.8	3494.8	3437.5	3405.6	3389.7
7.5°	3941.5	3933.0	3829.8	3705.0	3560.4	3410.3	3260.1	3140.0	3047.1	3010.5	3024.6
10°	3937.7	3911.4	3760.3	3560.4	3350.2	3125.9	2910.1	2741.2	2586.3	2506.6	2508.5
12.5°	3917.1	3873.9	3657.1	3398.1	3089.4	2789.0	2458.7	2230.7	2051.4	1945.4	1912.5
15°	3899.2	3824.2	3536.0	3177.6	2793.7	2364.9	1962.3	1680.7	1530.6	1447.1	1446.1
17.5°	3880.5	3776.3	3403.7	2943.9	2454.0	1902.2	1479.9	1265.0	1194.6	1203.1	1189.0
20°	3860.7	3720.0	3265.8	2683.9	2040.2	1418.9	1108.3	1021.0	1040.7	1079.2	1084.8
22.5°	3838.2	3659.9	3117.5	2397.7	1604.7	1067.9	899.0	885.9	936.6	996.6	1005.1
25°	3803.5	3584.8	2930.8	2098.4	1237.8	860.6	787.4	796.7	846.5	897.2	902.8
27.5°	3754.7	3491.9	2742.1	1724.9	930.0	738.6	719.8	732.0	756.4	787.4	794.9
30°	3689.0	3386.8	2525.3	1402.0	745.1	677.6	670.0	676.6	690.7	703.8	707.6
32.5°	3623.3	3285.5	2306.7	1073.6	664.4	637.2	629.7	629.7	629.7	631.6	632.5
35°	3562.3	3189.8	2072.1	836.2	622.2	605.3	595.0	583.7	581.8	575.3	575.3
37.5°	3528.5	3102.5	1822.5	700.1	591.2	579.0	564.9	546.2	535.9	536.8	534.9
40°	3535.1	3045.2	1595.4	623.1	565.9	552.7	531.2	509.6	503.0	503.0	501.1
42.5°	3609.2	3026.5	1377.6	582.8	541.5	526.5	499.3	479.5	475.8	474.9	476.7
45°	3780.0	3072.5	1182.4	556.5	520.8	498.3	471.1	453.3	449.5	449.5	448.6
47.5°	4113.2	3221.7	1042.6	539.6	505.8	476.7	448.6	430.7	424.2	422.3	422.3
50°	4631.2	3545.4	938.4	524.6	487.1	457.0	427.9	407.3	397.0	396.0	395.1
52.5°	5351.0	4050.3	898.1	513.3	466.4	436.4	404.5	384.8	371.6	368.8	366.9
55°	6192.8	4755.1	953.5	504.9	444.8	412.9	380.1	359.4	347.2	341.6	340.7
57.5°	7167.8	5601.6	1163.7	493.6	425.1	387.6	355.7	335.0	321.9	315.3	313.4
60°	8043.4	6471.5	1530.6	487.1	408.2	360.4	327.5	308.7	296.5	290.0	289.0
62.5°	9005.3	7301.1	1968.9	504.9	400.7	334.1	301.2	284.3	274.0	267.5	267.5
65°	10032.9	8131.6	2258.8	564.9	412.0	313.4	273.1	259.0	249.6	244.9	244.0
67.5°	10725.5	8418.8	1860.9	626.9	440.1	290.9	245.9	234.6	229.0	224.3	224.3
69°	10650.4	8055.6	1372.9	642.8	448.6	279.7	230.9	222.4	214.9	213.0	211.1
70°	10413.0	7641.7	1150.5	632.5	442.0	269.3	221.5	211.1	204.6	202.7	201.8
72.5°	9274.6	6627.3	856.8	549.9	376.3	233.7	196.1	186.7	181.1	178.3	178.3
75°	7705.5	5416.7	669.1	437.3	294.7	197.1	168.0	160.5	155.8	153.9	153.0
77.5°	4318.7	3024.6	480.5	342.5	223.3	159.5	140.8	134.2	129.5	127.6	127.6
80°	1203.1	864.3	282.5	226.2	152.0	121.1	111.7	107.0	100.4	95.7	98.5
82.5°	453.3	374.4	161.4	136.1	96.7	80.7	77.9	74.1	71.3	64.8	64.8
85°	220.5	182.1	103.2	72.3	53.5	42.2	40.4	38.5	36.6	31.9	32.8
87.5°	76.0	80.7	45.0	26.3	16.0	10.3	8.4	4.7	4.7	4.7	4.7
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)