

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: P456153

Luminaire Tested: **GALN-SA7B-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29301 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

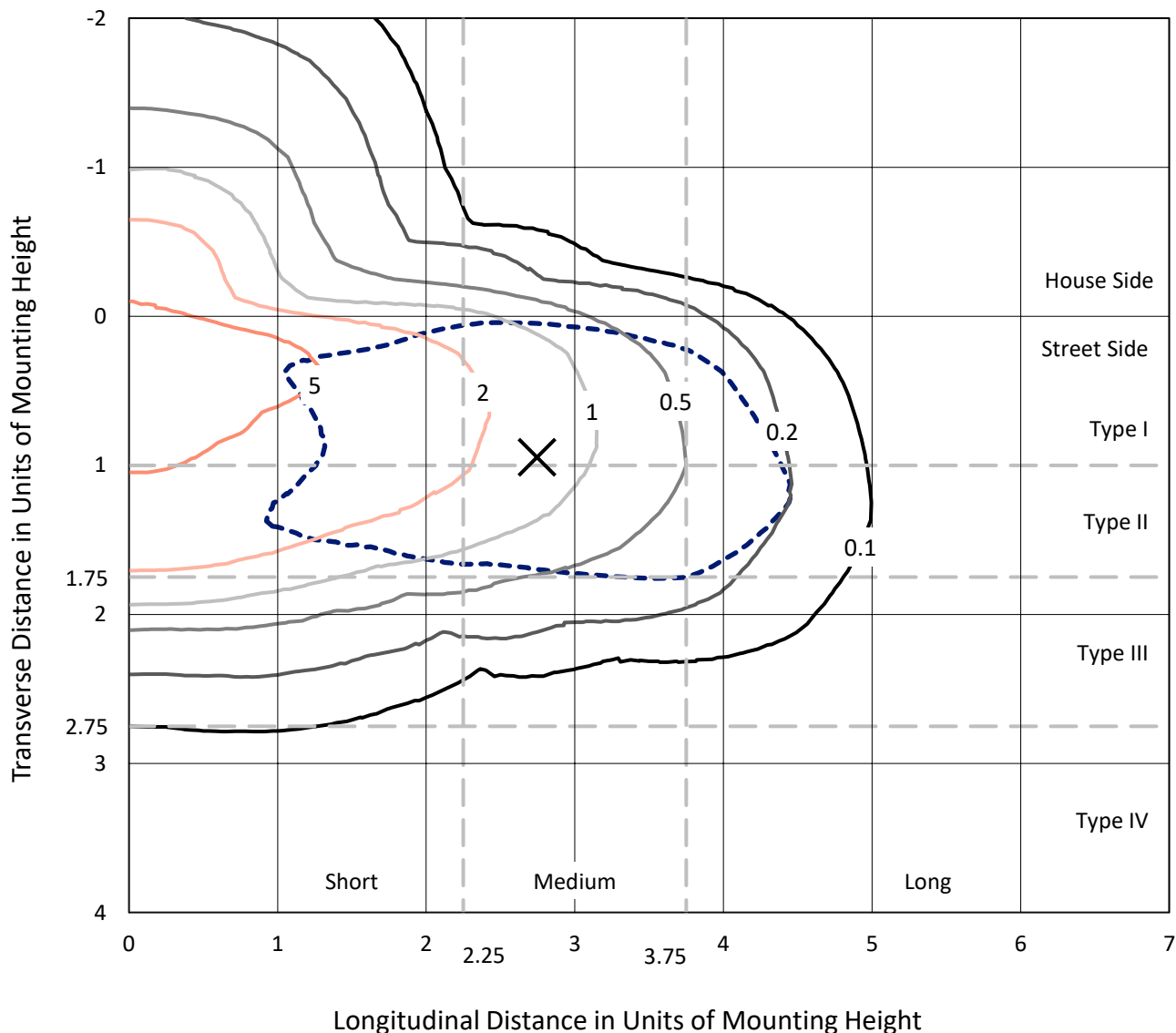
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456153
 CATALOG NUMBER: GALN-SA7B-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

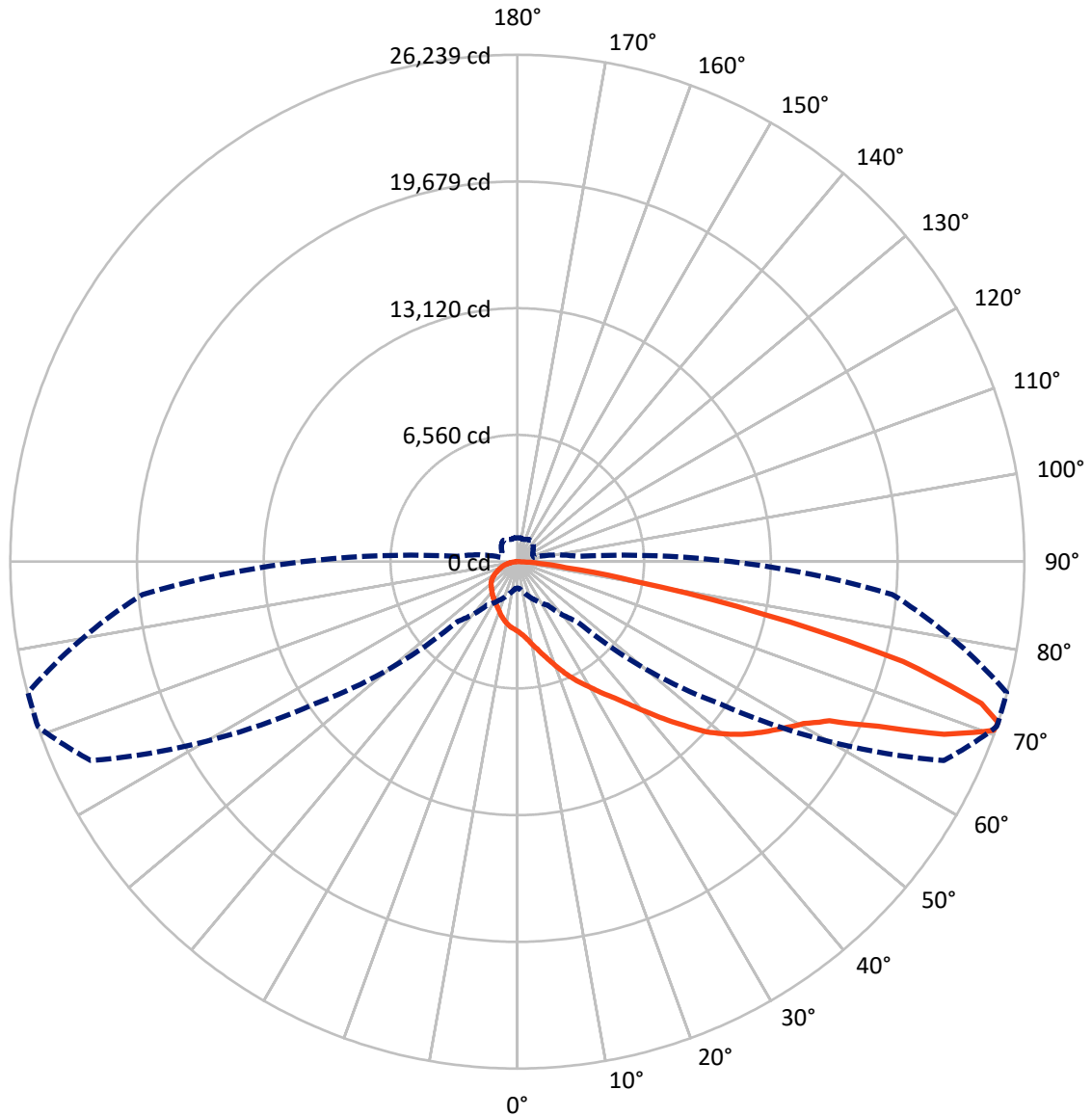
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P456153
CATALOG NUMBER: GALN-SA7B-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P456153

CATALOG NUMBER: GALN-SA7B-827-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5269.7	0.0	5269.7
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	24031.3	0.0	24031.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	29301.0	0.0	29301.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.1	1.2
10°-20°	1173.1	4.0
20°-30°	2050.1	7.0
30°-40°	3049.2	10.4
40°-50°	4492.7	15.3
50°-60°	6289.8	21.5
60°-70°	7034.9	24.0
70°-80°	4297.2	14.7
80°-90°	552.8	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°	29301.0	100.0
0°-180°	29301.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456153

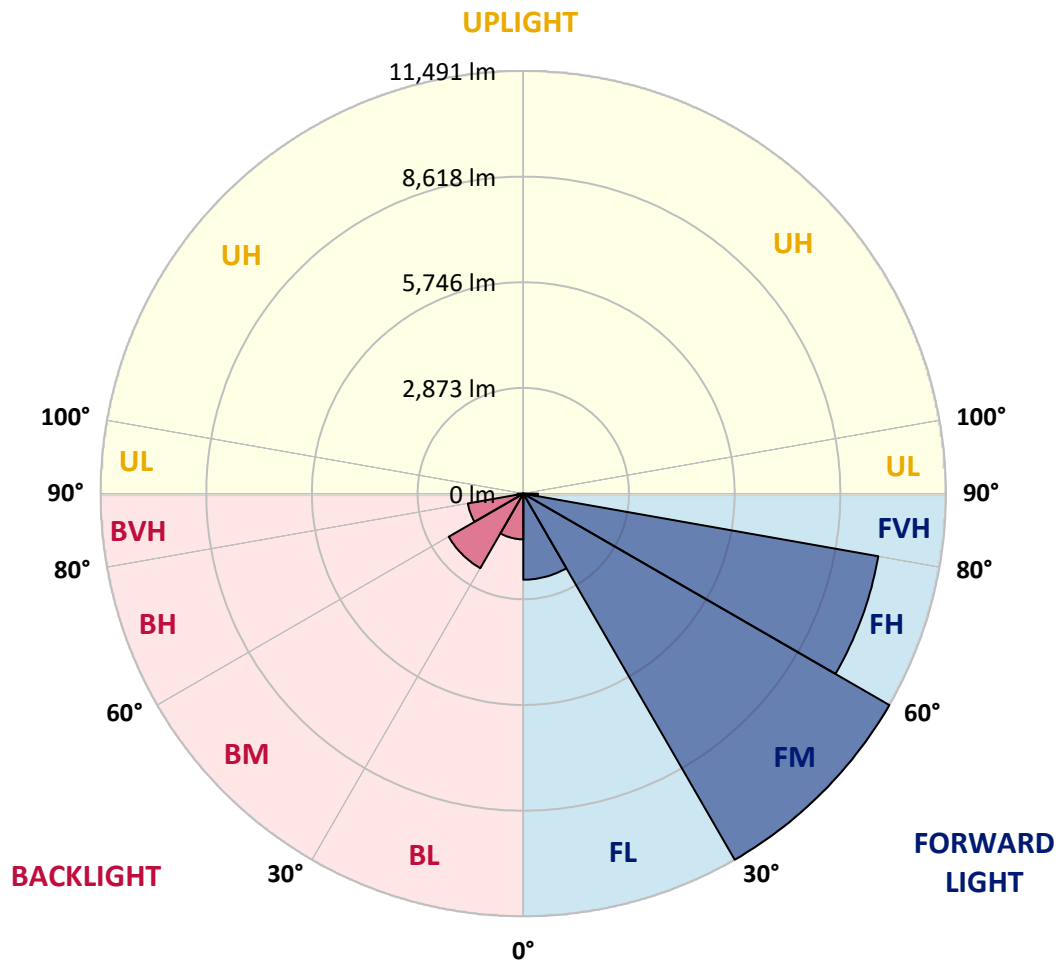
CATALOG NUMBER: GALN-SA7B-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2341.2	8.0			
FM	(30°-60°)	11491.3	39.2			
FH	(60°-80°)	9801.1	33.4			G4/12000
FVH	(80°-90°)	397.8	1.4			G3/500
BL	(0°-30°)	1243.1	4.2	B3/2500		
BM	(30°-60°)	2340.5	8.0	B2/2500		
BH	(60°-80°)	1531.1	5.2	B3/2500		G3/2500
BVH	(80°-90°)	155.0	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





REPORT NUMBER: P456153

CATALOG NUMBER: GALN-SA7B-827-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1
2.5°	3992.3	3973.0	3974.6	3947.2	3911.8	3873.1	3818.4	3770.0	3731.4	3708.9	3642.8
5°	4423.9	4404.6	4380.4	4320.8	4295.1	4200.0	4079.3	3969.7	3886.0	3839.3	3707.2
7.5°	4773.4	4768.5	4762.1	4728.3	4662.2	4530.2	4427.1	4237.1	4113.1	4024.5	3799.0
10°	4989.2	4997.2	5002.0	5008.5	4981.1	4911.9	4770.1	4530.2	4372.4	4259.6	3918.2
12.5°	5098.7	5106.7	5134.1	5193.7	5230.7	5222.7	5106.7	4871.6	4654.2	4506.0	4045.4
15°	5166.3	5179.2	5227.5	5306.4	5430.4	5509.3	5453.0	5235.6	4997.2	4821.7	4196.8
17.5°	5240.4	5254.9	5308.0	5420.8	5583.4	5754.1	5815.3	5628.5	5369.2	5159.9	4365.9
20°	5282.3	5301.6	5377.3	5525.4	5715.5	5963.5	6166.4	6068.2	5784.7	5552.8	4560.8
22.5°	5349.9	5366.0	5430.4	5588.2	5815.3	6126.1	6517.5	6496.5	6246.9	5947.4	4775.0
25°	5533.5	5559.3	5591.5	5686.5	5905.5	6292.0	6809.0	6953.9	6694.6	6359.6	4971.4
27.5°	5879.7	5900.7	5899.1	5911.9	6035.9	6435.3	7061.8	7406.4	7139.1	6776.7	5161.5
30°	6274.3	6282.3	6288.8	6259.8	6287.2	6581.9	7293.7	7854.1	7586.8	7205.1	5327.3
32.5°	6754.2	6770.3	6715.5	6641.5	6618.9	6799.3	7485.3	8301.8	8116.6	7639.9	5491.6
35°	7321.1	7362.9	7251.8	7121.4	7029.6	7111.7	7743.0	8759.2	8659.4	8195.5	5709.0
37.5°	7968.5	8020.0	7916.9	7660.9	7530.4	7553.0	8079.6	9324.5	9345.4	8828.4	6032.7
40°	8498.3	8565.9	8569.2	8206.8	8008.7	8034.5	8506.4	9933.2	10173.2	9611.1	6414.4
42.5°	8847.8	8913.8	8983.1	8770.5	8562.7	8709.3	9004.0	10593.5	11104.0	10561.3	6947.5
45°	9231.1	9290.6	9329.3	9232.7	9116.7	9496.8	9604.7	11295.6	12096.0	11622.6	7530.4
47.5°	9675.5	9741.6	9778.6	9686.8	9643.3	10187.7	10252.1	11951.1	13155.7	12653.3	8174.6
50°	10268.2	10318.1	10298.8	10240.8	10231.1	10717.5	10873.7	12564.7	14030.2	13762.8	8842.9
52.5°	11005.8	11065.4	11086.3	11004.2	10967.1	11096.0	11374.6	13123.5	14825.7	14716.2	9556.4
55°	11451.9	11546.9	11865.7	11994.6	12083.2	11585.5	11914.1	13740.3	15539.2	15721.1	10322.9
57.5°	10880.2	11002.5	11716.0	12360.2	13192.8	12809.5	12679.0	14384.5	16252.6	16695.5	11240.9
60°	9485.5	9512.9	10432.5	11619.3	13294.2	14382.9	14275.0	15408.7	17025.6	17677.8	12450.3
62.5°	6580.3	6638.2	7725.3	9619.2	12041.3	14949.7	16990.2	17177.0	18133.6	19148.2	14223.4
65°	3393.2	3317.5	4307.9	6045.6	9078.1	13603.4	19190.0	20428.5	20536.4	21447.9	16719.6
67.5°	2088.7	2122.6	2586.4	3530.1	5367.6	9886.5	18959.7	24401.4	23832.9	24271.0	19037.0
70°	1568.6	1610.4	1929.3	2415.7	3272.4	5652.7	15247.7	25364.5	26158.4	26045.7	19742.4
71°	1364.0	1407.5	1739.3	2198.3	2749.0	4362.7	12846.5	24356.3	26239.0	26219.6	19476.7
72.5°	1162.7	1190.1	1449.4	1861.7	2317.4	3058.2	9651.4	21844.1	25119.7	25762.3	18528.1
75°	913.1	934.1	1050.0	1420.4	1824.6	1877.8	5179.2	16376.6	20631.4	21855.3	15424.8
77.5°	744.0	758.5	818.1	1054.8	1407.5	1330.2	2716.8	10659.5	12925.4	14157.4	9086.1
80°	591.0	607.1	642.6	715.0	1054.8	948.6	1296.4	5401.4	6243.7	6230.8	3626.7
82.5°	459.0	463.8	505.7	525.0	721.5	673.2	702.2	2286.8	2533.2	2617.0	1309.3
85°	289.9	304.4	447.7	402.6	431.6	394.6	346.2	908.3	1119.3	1103.2	523.4
87.5°	88.6	93.4	151.4	170.7	191.6	172.3	127.2	267.3	326.9	354.3	130.4
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: P456153
 CATALOG NUMBER: GALN-SA7B-827-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1	3596.1
2.5°	3617.1	3599.3	3536.5	3485.0	3436.7	3383.5	3338.4	3325.6	3314.3	3309.5	3307.9
5°	3650.9	3597.7	3473.7	3372.3	3291.7	3217.7	3171.0	3150.0	3129.1	3129.1	3135.5
7.5°	3699.2	3602.6	3410.9	3259.5	3158.1	3088.8	3055.0	3051.8	3056.6	3061.5	3063.1
10°	3752.3	3599.3	3319.1	3130.7	3040.5	3008.3	3009.9	3037.3	3063.1	3082.4	3085.6
12.5°	3803.9	3580.0	3211.2	3009.9	2951.9	2958.4	3003.5	3064.7	3114.6	3142.0	3143.6
15°	3861.8	3549.4	3080.8	2895.6	2876.3	2926.2	3009.9	3103.3	3179.0	3224.1	3228.9
17.5°	3910.2	3497.9	2943.9	2784.5	2808.6	2900.4	3016.4	3137.1	3228.9	3285.3	3295.0
20°	3964.9	3431.9	2802.2	2678.2	2747.4	2871.4	3003.5	3133.9	3228.9	3283.7	3296.6
22.5°	4008.4	3338.4	2666.9	2591.2	2692.7	2836.0	2960.0	3064.7	3142.0	3171.0	3190.3
25°	4026.1	3220.9	2539.7	2520.3	2649.2	2778.0	2861.8	2921.3	2945.5	2942.3	2950.3
27.5°	4016.4	3085.6	2430.2	2464.0	2594.4	2687.8	2729.7	2724.9	2681.4	2641.1	2660.5
30°	3976.2	2924.6	2338.4	2406.0	2523.6	2575.1	2568.7	2505.8	2423.7	2348.0	2352.9
32.5°	3903.7	2750.6	2253.0	2340.0	2423.7	2446.3	2402.8	2320.6	2203.1	2104.8	2090.4
35°	3842.5	2584.8	2177.3	2264.3	2323.9	2312.6	2270.7	2164.4	2058.1	1971.2	1956.7
37.5°	3832.9	2443.0	2104.8	2178.9	2212.7	2196.6	2145.1	2054.9	2016.3	1950.2	1942.2
40°	3884.4	2343.2	2030.8	2088.7	2104.8	2092.0	2035.6	1984.1	2019.5	2003.4	2003.4
42.5°	4024.5	2290.1	1964.7	1998.6	2011.4	2021.1	1980.8	1937.4	1980.8	1906.8	1882.6
45°	4246.7	2291.7	1905.2	1910.0	1948.6	1982.5	1955.1	1890.7	1868.1	1720.0	1691.0
47.5°	4573.7	2346.4	1856.8	1826.2	1895.5	1951.9	1913.2	1819.8	1720.0	1621.7	1604.0
50°	4955.3	2444.7	1813.4	1739.3	1824.6	1913.2	1884.2	1774.7	1671.6	1612.1	1600.8
52.5°	5378.9	2568.7	1760.2	1642.7	1737.7	1895.5	1890.7	1768.3	1626.5	1586.3	1576.6
55°	5902.3	2691.1	1694.2	1529.9	1660.4	1881.0	1872.9	1715.1	1616.9	1587.9	1584.7
57.5°	6511.0	2868.2	1599.2	1415.6	1571.8	1821.4	1803.7	1682.9	1584.7	1563.7	1562.1
60°	7491.8	3143.6	1463.9	1310.9	1481.6	1716.7	1739.3	1628.2	1533.1	1528.3	1526.7
62.5°	8781.7	3530.1	1323.8	1203.0	1376.9	1581.5	1645.9	1554.1	1478.4	1502.5	1505.8
65°	10562.9	3855.4	1178.8	1111.2	1261.0	1451.0	1557.3	1484.8	1417.2	1463.9	1463.9
67.5°	11724.0	3861.8	1046.8	1016.2	1143.4	1341.5	1463.9	1402.7	1338.3	1417.2	1420.4
70°	11482.5	3383.5	937.3	916.3	1029.1	1223.9	1360.8	1312.5	1238.4	1309.3	1283.5
71°	11092.7	3117.8	893.8	877.7	984.0	1167.6	1312.5	1272.3	1198.2	1244.9	1230.4
72.5°	10471.1	2707.2	822.9	826.2	916.3	1096.7	1244.9	1203.0	1128.9	1154.7	1149.9
75°	8851.0	2364.1	703.8	718.3	787.5	975.9	1109.6	1077.4	1001.7	1001.7	996.9
77.5°	5533.5	1652.3	584.6	592.6	668.3	835.8	953.4	926.0	853.5	829.4	822.9
80°	2064.6	853.5	457.4	467.0	513.7	658.7	789.1	763.4	689.3	661.9	636.1
82.5°	781.1	428.4	336.6	328.5	378.5	502.5	618.4	587.8	529.8	463.8	444.5
85°	294.7	212.6	206.1	199.7	222.2	297.9	383.3	376.8	315.6	268.9	264.1
87.5°	77.3	69.2	80.5	59.6	62.8	56.4	58.0	24.2	11.3	4.8	3.2
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)