

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: P529960

Luminaire Tested: **GALN-SA5A-827-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529960
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14354 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

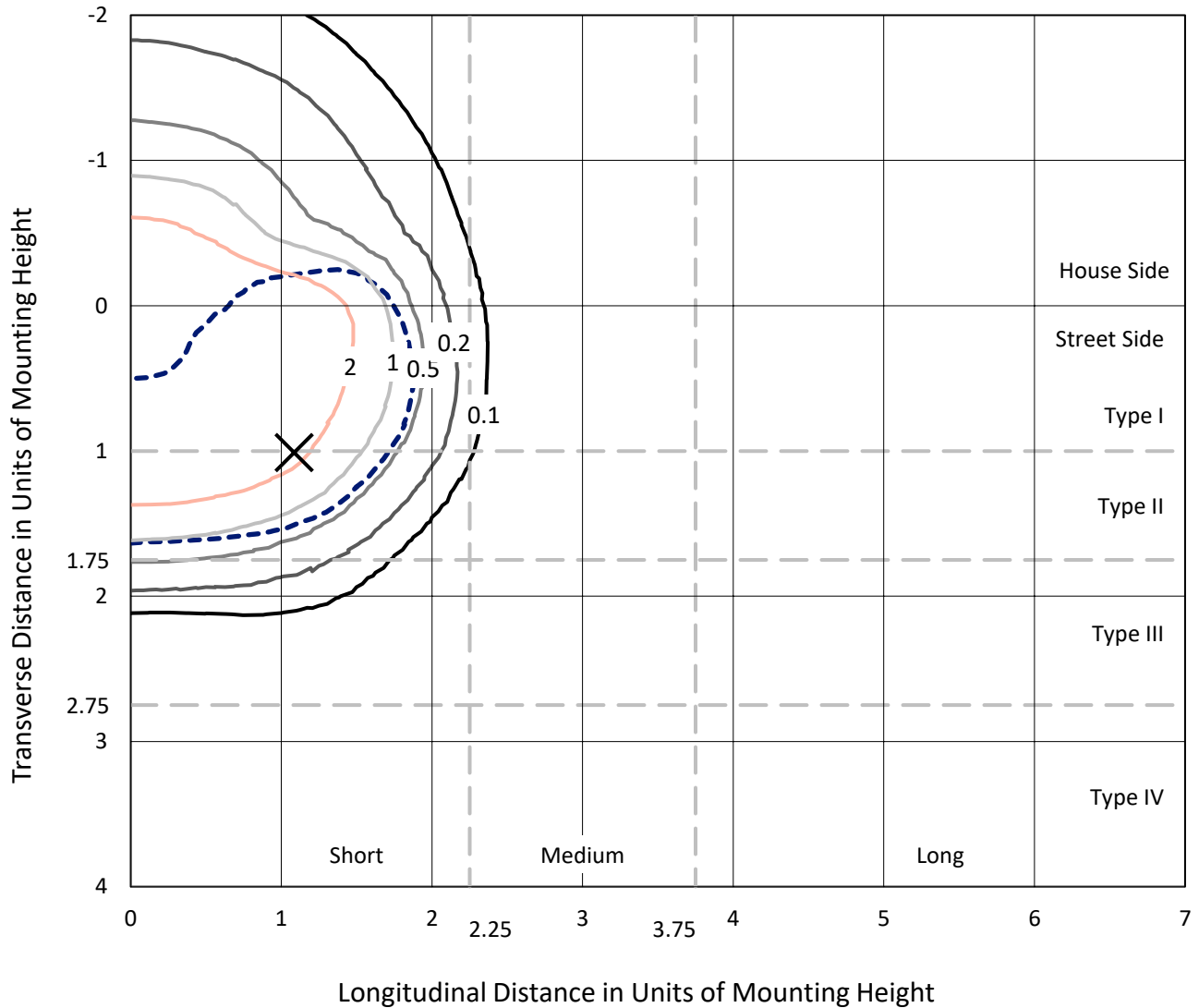
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529960
 CATALOG NUMBER: GALN-SA5A-827-U-T3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

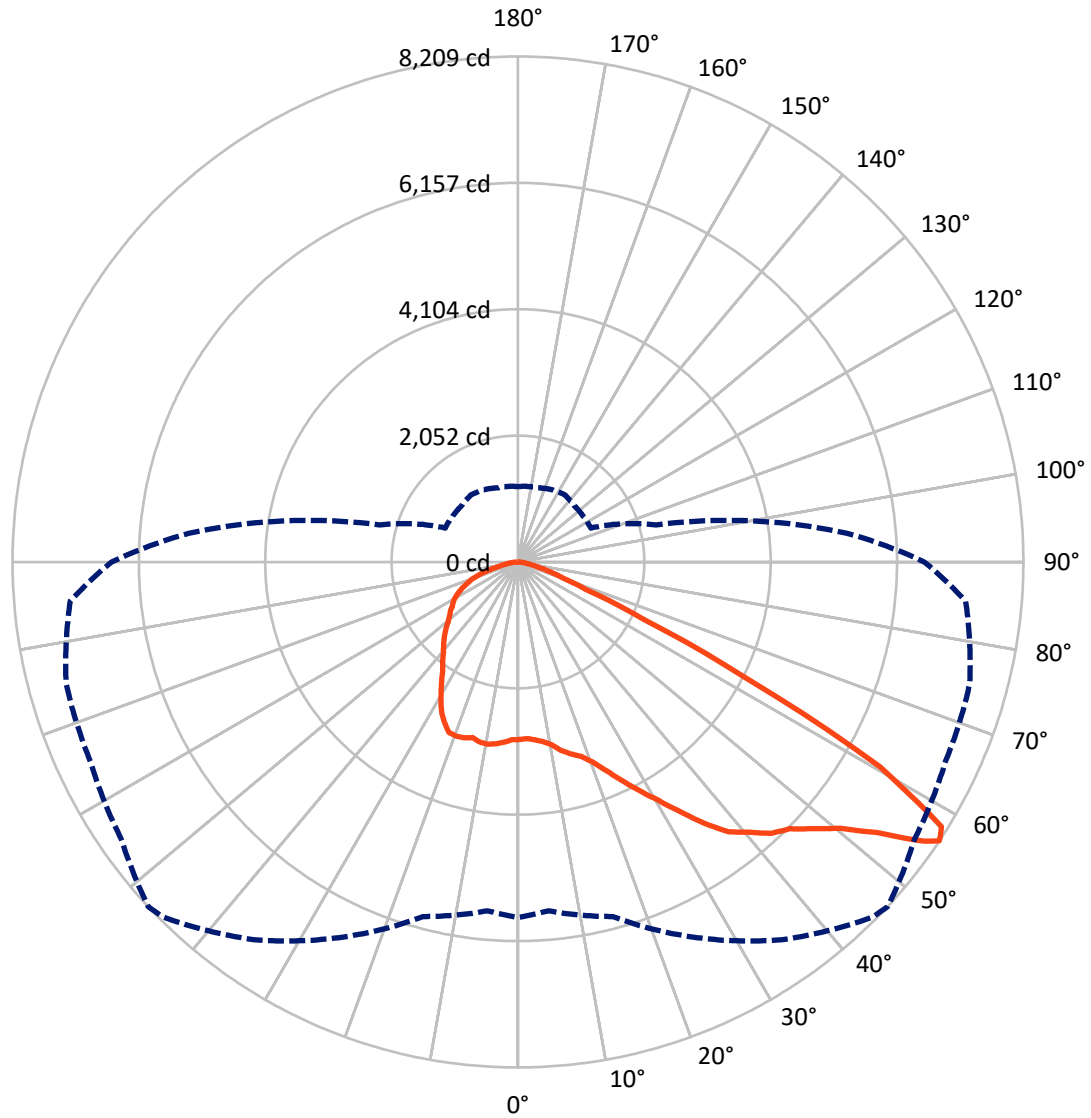
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

REPORT NUMBER: P529960
CATALOG NUMBER: GALN-SA5A-827-U-T3-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P529960
 CATALOG NUMBER: GALN-SA5A-827-U-T3-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4548.6	0.0	4548.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	9805.4	0.0	9805.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	14354.0	0.0	14354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.9	2.0
10°-20°	886.2	6.2
20°-30°	1566.6	10.9
30°-40°	2353.0	16.4
40°-50°	3229.3	22.5
50°-60°	3847.2	26.8
60°-70°	1646.4	11.5
70°-80°	465.9	3.2
80°-90°	78.4	0.5
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°	14354.0	100.0
0°-180°	14354.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529960

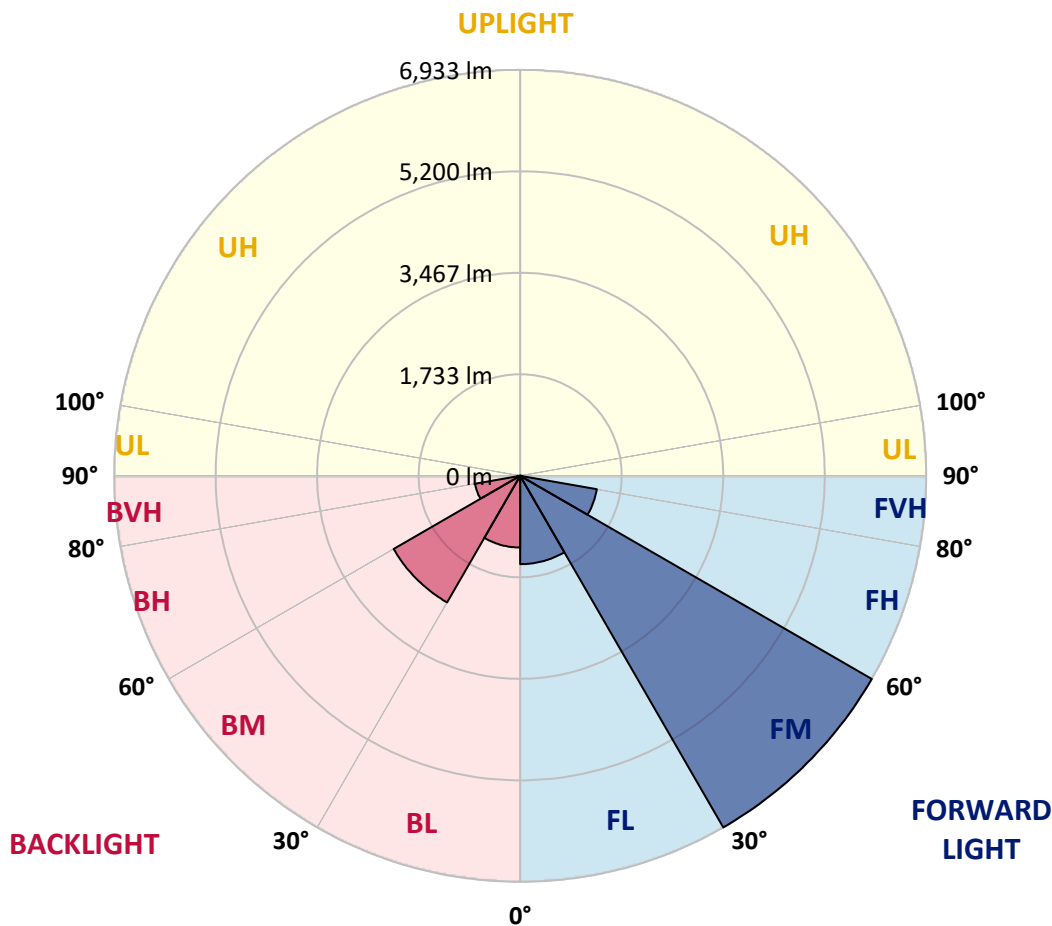
CATALOG NUMBER: GALN-SA5A-827-U-T3-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.1	10.5			
FM (30°-60°)	6933.3	48.3			
FH (60°-80°)	1329.7	9.3			G1/1800
FVH (80°-90°)	33.3	0.2			G1/100
BL (0°-30°)	1224.7	8.5	B3/2500		
BM (30°-60°)	2496.2	17.4	B2/2500		
BH (60°-80°)	782.6	5.5	B2/1000		G2/1000
BVH (80°-90°)	45.1	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-G2

Type II Short





REPORT NUMBER: P529960

CATALOG NUMBER: GALN-SA5A-827-U-T3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3
2.5°	2872.3	2866.8	2863.1	2892.4	2881.5	2883.3	2872.3	2883.3	2890.6	2874.1	2897.9
5°	2866.8	2883.3	2868.6	2877.8	2901.6	2894.3	2901.6	2923.6	2918.1	2912.6	2905.3
7.5°	2918.1	2919.9	2930.9	2934.5	2941.9	2934.5	2945.5	2965.7	2960.2	2929.0	2932.7
10°	2991.3	2995.0	2996.8	3016.9	3029.7	3031.6	3018.8	3000.4	2998.6	3040.7	3011.4
12.5°	3075.5	3066.3	3088.3	3095.6	3110.3	3126.8	3143.2	3104.8	3128.6	3130.4	3095.6
15°	3198.2	3207.3	3181.7	3181.7	3187.2	3189.0	3234.8	3216.5	3212.8	3192.7	3207.3
17.5°	3381.2	3319.0	3317.1	3291.5	3287.9	3302.5	3319.0	3333.6	3383.1	3342.8	3264.1
20°	3514.9	3529.5	3476.4	3445.3	3450.8	3483.7	3467.3	3533.2	3567.9	3502.0	3425.2
22.5°	3751.0	3701.6	3714.4	3644.8	3650.3	3685.1	3683.3	3751.0	3771.2	3666.8	3555.1
25°	3910.3	3897.5	3908.4	3853.5	3860.9	3888.3	3932.2	4043.9	4011.0	3895.6	3637.5
27.5°	4142.8	4117.1	4108.0	4087.9	4080.5	4153.8	4205.0	4324.0	4300.2	4131.8	3784.0
30°	4380.8	4364.3	4373.4	4291.1	4320.3	4476.0	4490.6	4653.5	4642.5	4346.0	3946.9
32.5°	4545.5	4554.7	4571.1	4525.4	4655.4	4779.8	4829.3	5014.2	5023.3	4713.9	4261.8
35°	4811.0	4779.8	4789.0	4842.1	4902.5	5129.5	5210.0	5332.7	5409.6	5100.2	4563.8
37.5°	4977.6	5010.5	4972.1	5056.3	5213.7	5486.5	5559.7	5686.0	5766.6	5481.0	4975.7
40°	5237.5	5184.4	5211.9	5272.3	5433.4	5788.5	5768.4	5898.4	5924.0	5805.0	5360.2
42.5°	5517.6	5492.0	5453.5	5590.8	5726.3	5984.4	6024.7	5964.3	6094.3	6121.7	5909.4
45°	5852.6	5883.7	5889.2	5892.9	6011.9	6237.0	6182.1	6129.0	6279.1	6478.7	6249.9
47.5°	6163.8	6065.0	6136.4	6235.2	6403.6	6405.5	6469.5	6343.2	6502.5	6680.1	6557.4
50°	6268.2	6220.6	6315.8	6502.5	6762.4	6789.9	6797.2	6617.8	6700.2	6841.2	6663.6
52.5°	6227.9	6211.4	6454.9	6744.1	7124.9	7264.0	7300.7	7079.1	7124.9	7060.8	6897.9
55°	6035.7	6085.1	6330.4	6919.9	7503.9	7934.1	8003.6	7723.5	7432.5	7481.9	7302.5
56°	5772.1	5686.0	5960.6	6720.3	7487.4	8151.9	8208.7	7859.0	7661.3	7597.2	7298.8
57.5°	4897.0	4785.3	5146.0	6046.7	7071.8	8069.5	8111.6	7915.8	7622.8	7492.9	6766.1
60°	2866.8	2921.7	3379.4	4170.2	5455.4	6616.0	6756.9	6899.7	6703.9	6121.7	5036.1
62.5°	1384.0	1349.2	1676.9	2390.8	3324.5	4223.3	4181.2	4582.1	4801.8	4349.6	3179.8
65°	724.9	721.3	915.3	1305.3	1827.0	2218.8	2257.2	2473.2	2775.3	2240.7	1614.6
67.5°	532.7	547.4	644.4	917.2	1175.3	1199.1	1193.6	1301.6	1330.9	1125.9	992.2
70°	417.4	424.7	496.1	697.5	875.1	783.5	767.0	779.9	865.9	902.5	858.6
72.5°	302.1	309.4	369.8	470.5	547.4	534.6	545.5	616.9	723.1	761.6	715.8
75°	201.4	206.9	239.8	287.4	324.0	349.7	369.8	452.2	551.0	573.0	551.0
77.5°	139.1	144.6	166.6	203.2	206.9	223.3	230.7	269.1	329.5	357.0	342.3
80°	78.7	78.7	89.7	104.3	128.1	150.1	153.8	184.9	212.4	230.7	234.3
82.5°	36.6	38.4	47.6	64.1	84.2	104.3	108.0	128.1	148.3	166.6	172.1
85°	18.3	20.1	27.5	38.4	51.3	62.2	60.4	62.2	65.9	62.2	64.1
87.5°	5.5	5.5	7.3	9.2	7.3	9.2	9.2	11.0	12.8	14.6	16.5
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: P529960

CATALOG NUMBER: GALN-SA5A-827-U-T3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3	2883.3
2.5°	2899.8	2905.3	2868.6	2903.4	2890.6	2888.8	2914.4	2910.7	2919.9	2916.2	2894.3
5°	2901.6	2888.8	2927.2	2892.4	2908.9	2943.7	2919.9	2974.8	2947.4	2965.7	2925.4
7.5°	2958.3	2962.0	2954.7	2969.3	2962.0	2978.5	2965.7	2978.5	2956.5	2958.3	2995.0
10°	3007.8	2996.8	3009.6	2991.3	3004.1	2998.6	2969.3	2960.2	2967.5	2958.3	2982.1
12.5°	3099.3	3079.2	3070.0	3048.0	3033.4	2978.5	2932.7	2907.1	2941.9	2947.4	2936.4
15°	3192.7	3194.5	3152.4	3103.0	3011.4	2929.0	2940.0	2949.2	2949.2	2963.8	2936.4
17.5°	3251.2	3251.2	3212.8	3113.9	3020.6	2973.0	2962.0	2932.7	2907.1	2903.4	2901.6
20°	3353.8	3322.6	3234.8	3112.1	3016.9	2995.0	2912.6	2843.0	2789.9	2771.6	2769.8
22.5°	3470.9	3392.2	3269.6	3115.8	3011.4	2980.3	2826.5	2722.2	2627.0	2586.7	2592.2
25°	3578.9	3452.6	3289.7	3099.3	2991.3	2841.2	2669.1	2524.5	2425.6	2392.7	2376.2
27.5°	3654.0	3516.7	3289.7	3113.9	2916.2	2685.6	2509.8	2324.9	2238.9	2216.9	2220.6
30°	3754.7	3597.2	3346.4	3082.8	2766.1	2484.2	2273.7	2152.9	2101.6	2083.3	2096.1
32.5°	3990.8	3807.8	3425.2	3007.8	2588.5	2282.8	2112.6	2044.8	1969.8	1933.2	1920.4
35°	4247.1	4007.3	3502.0	2881.5	2389.0	2099.8	1993.6	1931.3	1841.6	1801.4	1808.7
37.5°	4609.6	4263.6	3507.5	2672.8	2173.0	1997.2	1900.2	1803.2	1730.0	1667.7	1649.4
40°	5098.4	4613.3	3494.7	2453.1	1999.1	1876.4	1805.0	1684.2	1601.8	1557.9	1567.0
42.5°	5528.6	5023.3	3441.6	2204.1	1841.6	1794.0	1713.5	1594.5	1514.0	1468.2	1464.5
45°	5891.0	5325.4	3340.9	1991.8	1709.8	1702.5	1609.1	1517.6	1453.5	1411.4	1429.7
47.5°	6226.1	5568.9	3189.0	1779.4	1589.0	1603.7	1514.0	1457.2	1416.9	1378.5	1376.7
50°	6346.9	5565.2	3055.4	1603.7	1492.0	1484.7	1481.0	1420.6	1378.5	1345.5	1360.2
52.5°	6548.3	5627.4	2910.7	1482.8	1404.1	1405.9	1418.8	1374.8	1327.2	1307.1	1325.4
55°	6837.5	5636.6	2592.2	1341.9	1330.9	1343.7	1343.7	1314.4	1274.1	1257.7	1248.5
56°	6601.3	5363.8	2324.9	1305.3	1294.3	1294.3	1329.1	1296.1	1246.7	1233.9	1222.9
57.5°	6088.8	4699.3	1946.0	1261.3	1244.8	1270.5	1288.8	1254.0	1208.2	1189.9	1200.9
60°	4199.5	3179.8	1462.7	1166.1	1166.1	1208.2	1222.9	1171.6	1151.5	1149.7	1135.0
62.5°	2451.2	1852.6	1144.2	1080.1	1083.7	1118.5	1129.5	1100.2	1074.6	1105.7	1120.4
65°	1299.8	1105.7	981.2	988.6	990.4	1017.8	1065.4	1063.6	1061.8	1070.9	1072.8
67.5°	941.0	919.0	891.5	884.2	887.9	908.0	955.6	992.2	990.4	968.4	951.9
70°	838.4	807.3	790.8	792.7	778.0	801.8	840.3	864.1	822.0	796.3	785.4
72.5°	697.5	688.3	677.3	679.2	649.9	644.4	600.5	600.5	589.5	582.1	595.0
75°	532.7	529.1	534.6	525.4	494.3	461.3	435.7	411.9	375.3	360.6	353.3
77.5°	336.8	347.8	360.6	340.5	327.7	303.9	278.3	254.5	225.2	208.7	208.7
80°	228.8	238.0	247.1	243.5	228.8	206.9	186.7	161.1	141.0	128.1	126.3
82.5°	173.9	181.2	194.0	179.4	164.8	146.5	130.0	111.7	93.4	78.7	78.7
85°	62.2	71.4	78.7	86.0	91.5	93.4	80.5	65.9	53.1	42.1	40.3
87.5°	16.5	18.3	20.1	18.3	18.3	18.3	20.1	18.3	16.5	12.8	12.8
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)