

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: P452070

Luminaire Tested: **GALN-SA3A-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11683 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

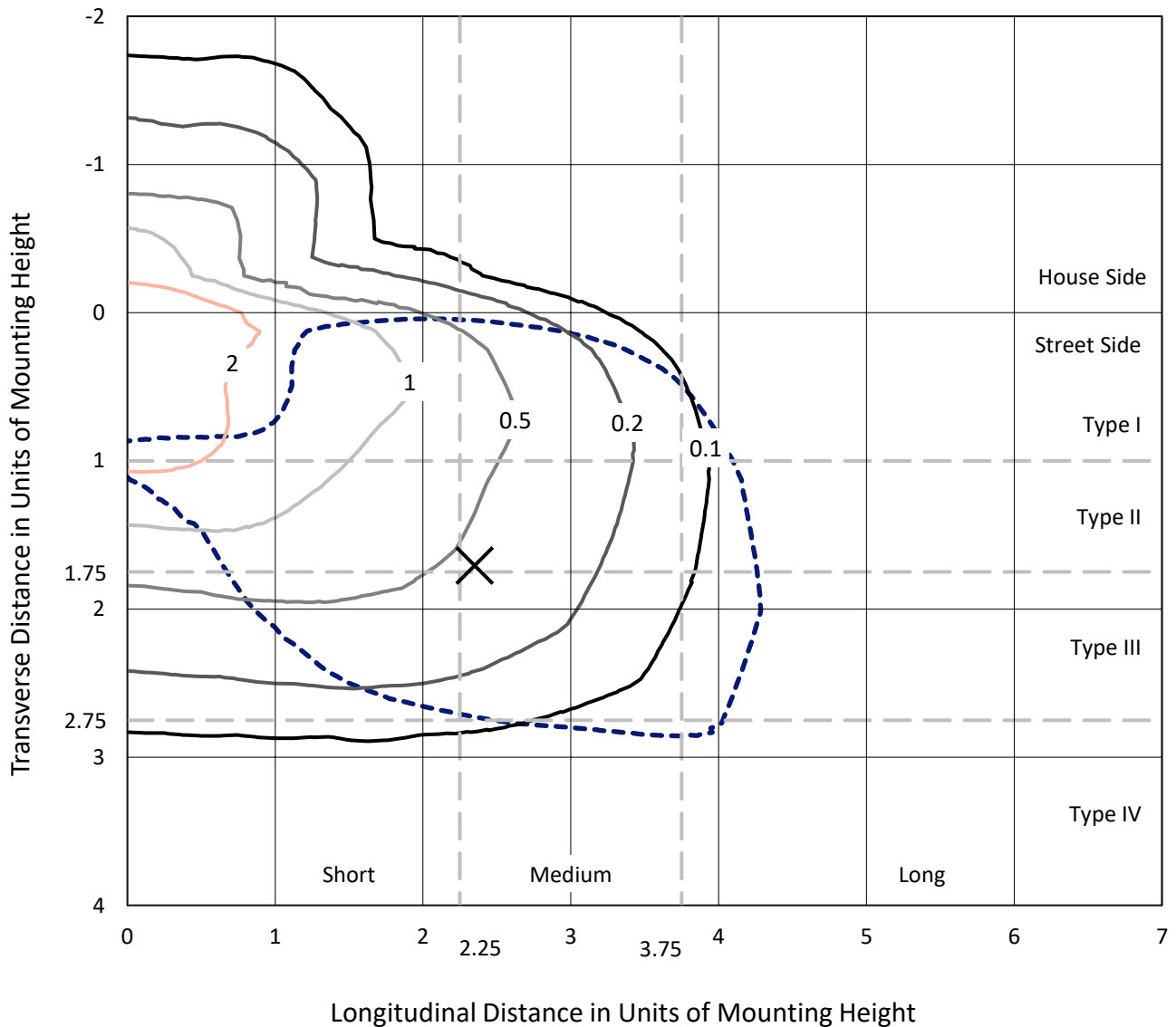
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452070
 CATALOG NUMBER: GALN-SA3A-727-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

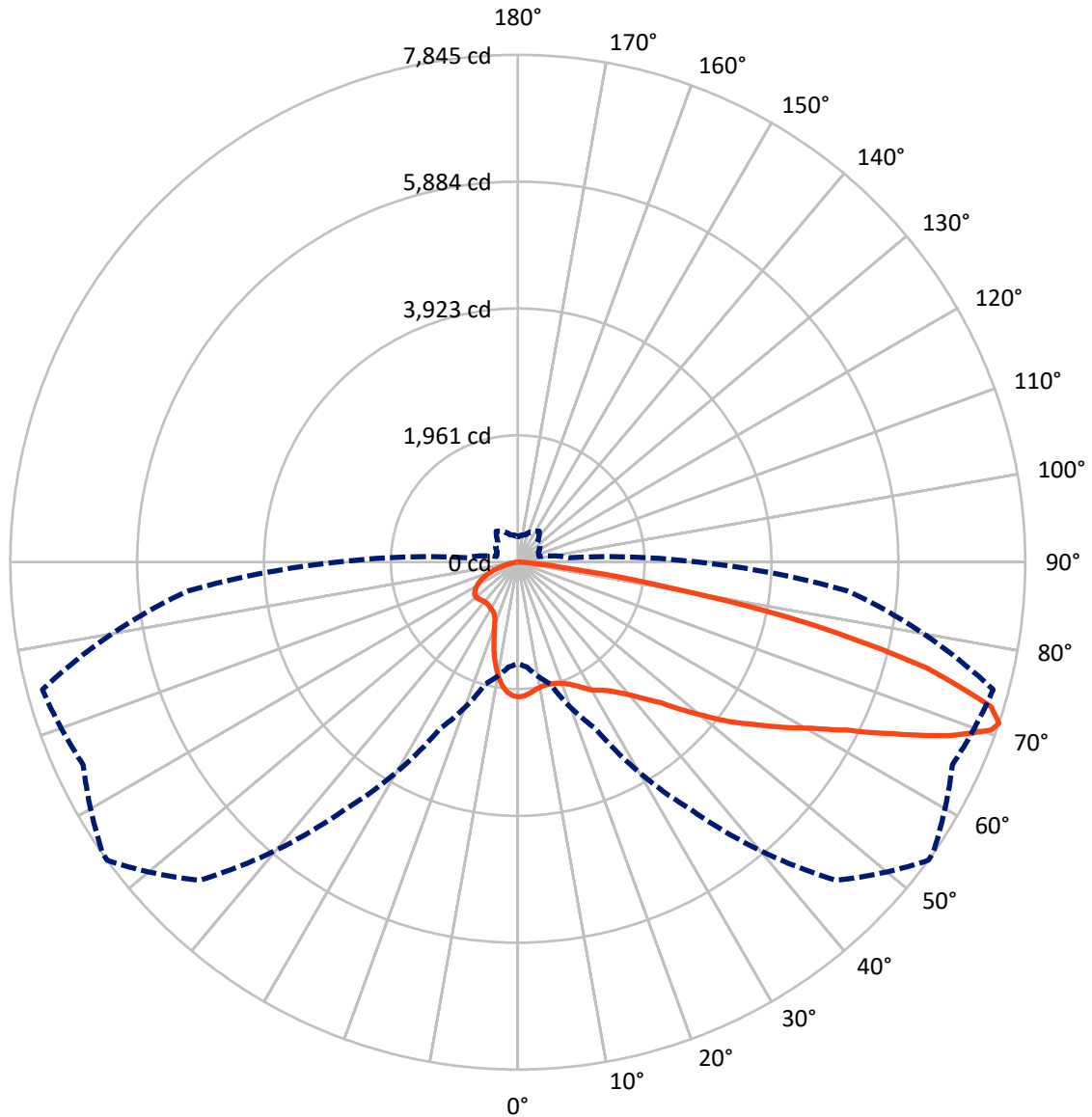
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P452070
CATALOG NUMBER: GALN-SA3A-727-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P452070

CATALOG NUMBER: GALN-SA3A-727-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2109.3	0.0	2109.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9573.7	0.0	9573.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	11683.0	0.0	11683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.6
10°-20°	490.5	4.2
20°-30°	816.7	7.0
30°-40°	1207.6	10.3
40°-50°	1700.9	14.6
50°-60°	2277.6	19.5
60°-70°	2870.8	24.6
70°-80°	1960.7	16.8
80°-90°	172.4	1.5
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°	11683.0	100.0
0°-180°	11683.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452070

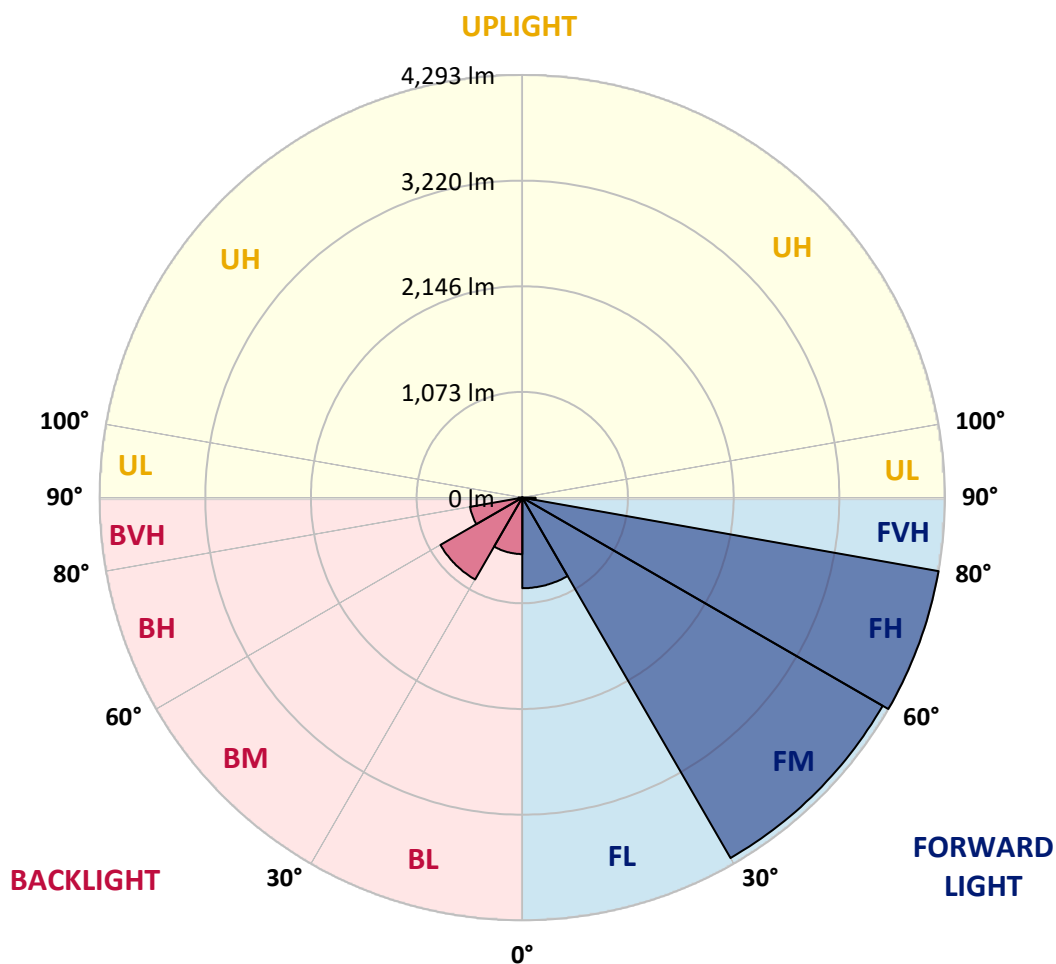
CATALOG NUMBER: GALN-SA3A-727-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	919.6	7.9			
FM	(30°-60°)	4226.5	36.2			
FH	(60°-80°)	4292.8	36.7			G2/5000
FVH	(80°-90°)	134.8	1.2			G2/225
BL	(0°-30°)	573.3	4.9	B2/1000		
BM	(30°-60°)	959.7	8.2	B1/1000		
BH	(60°-80°)	538.7	4.6	B2/1000		G2/1000
BVH	(80°-90°)	37.7	0.3			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 IV Medium





REPORT NUMBER: P452070

CATALOG NUMBER: GALN-SA3A-727-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2013.7	2023.2	2025.7	2032.0	2045.3	2056.0	2066.8	2065.5	2080.6	2086.9	2092.6
5°	1924.1	1926.7	1936.1	1948.7	1972.1	2001.8	2030.8	2031.4	2068.6	2098.3	2112.8
7.5°	1858.5	1866.7	1873.0	1886.3	1910.9	1943.1	1989.1	1992.9	2059.2	2117.9	2148.8
10°	1815.6	1825.1	1832.0	1848.4	1873.0	1909.0	1958.8	1965.8	2052.2	2148.8	2203.1
12.5°	1776.5	1785.9	1792.2	1813.7	1845.9	1890.1	1946.2	1954.4	2054.8	2184.8	2262.4
15°	1800.4	1808.0	1805.5	1811.8	1833.3	1883.7	1951.3	1959.5	2064.2	2219.5	2321.1
17.5°	1907.1	1913.4	1892.6	1868.6	1858.5	1895.7	1967.0	1975.9	2083.2	2255.4	2381.0
20°	2064.2	2081.3	2035.8	1982.2	1933.6	1938.6	1999.9	2009.3	2109.7	2291.4	2442.2
22.5°	2268.7	2281.3	2225.8	2137.4	2047.8	2001.8	2049.1	2054.8	2149.4	2338.1	2509.1
25°	2509.1	2516.7	2439.7	2326.1	2196.8	2109.7	2116.6	2126.7	2215.1	2391.1	2568.4
27.5°	2742.6	2766.6	2677.6	2538.8	2368.4	2223.3	2209.4	2215.7	2286.4	2420.8	2609.5
30°	3019.7	3017.8	2923.7	2762.8	2544.5	2346.9	2297.1	2295.8	2324.9	2435.3	2639.1
32.5°	3240.5	3266.4	3174.3	2998.8	2745.8	2475.1	2357.7	2355.1	2354.5	2460.5	2683.3
35°	3491.7	3495.5	3410.9	3234.2	2963.5	2636.0	2442.2	2429.6	2415.1	2514.8	2743.3
37.5°	3716.4	3734.0	3656.4	3458.3	3177.4	2803.2	2558.4	2550.1	2506.0	2608.8	2839.2
40°	3891.8	3905.1	3858.4	3669.7	3388.2	2983.7	2706.0	2690.9	2637.2	2762.8	2967.3
42.5°	3949.2	3976.4	3994.7	3901.9	3630.5	3197.6	2887.8	2868.8	2827.8	2996.3	3115.0
45°	3953.6	3996.6	4093.1	4097.5	3874.1	3453.8	3099.8	3086.6	3083.4	3295.4	3322.6
47.5°	3920.2	3963.7	4125.9	4213.6	4091.2	3712.6	3405.9	3385.1	3386.9	3665.2	3555.4
50°	3839.4	3891.2	4088.1	4288.1	4261.0	3981.4	3729.0	3722.0	3761.2	4087.4	3797.1
52.5°	3687.3	3749.8	4048.9	4334.8	4387.2	4213.0	4096.3	4076.7	4175.8	4545.6	4061.6
55°	3266.4	3360.4	3905.7	4360.7	4507.1	4434.5	4426.9	4462.3	4593.5	5045.4	4352.5
57.5°	3046.8	3117.5	3594.6	4365.1	4658.5	4692.0	4813.2	4822.0	5051.7	5576.1	4681.3
60°	2926.9	2989.4	3424.2	4336.1	4870.0	5010.7	5208.2	5239.8	5499.1	6151.0	5022.0
62.5°	2822.1	2875.8	3321.9	4235.7	5108.5	5483.4	5720.0	5735.2	6007.1	6785.9	5358.4
65°	2575.4	2636.6	3116.2	4135.4	5314.2	6074.0	6399.0	6381.4	6548.0	7333.7	5569.2
67.5°	2242.8	2320.4	2731.9	3788.9	5415.8	6719.6	7163.9	7141.8	7081.9	7692.7	5629.8
70°	1818.1	1859.8	2240.3	3190.1	5010.1	7058.5	7767.8	7744.5	7412.5	7740.1	5343.3
71°	1564.4	1629.4	1950.6	2833.5	4672.4	6955.0	7845.4	7839.1	7413.2	7609.4	5127.4
72.5°	1221.1	1260.9	1544.9	2195.5	3971.3	6366.9	7653.6	7677.6	7252.2	7246.6	4682.5
75°	772.4	790.1	969.3	1292.4	2179.1	4509.0	6533.5	6598.5	6439.4	5931.4	3482.2
77.5°	448.7	471.4	580.6	761.7	941.6	2447.3	4675.0	4745.6	4474.3	3265.8	1425.6
80°	261.3	286.5	382.4	442.4	432.3	908.1	2380.4	2500.9	1937.4	824.8	400.1
82.5°	145.1	162.2	268.8	269.5	230.3	296.6	749.1	783.8	552.8	332.6	163.4
85°	105.4	119.3	173.5	157.1	110.4	127.5	260.6	273.3	223.4	140.1	53.0
87.5°	37.2	53.0	95.3	75.7	30.3	26.5	75.1	61.2	56.8	39.1	12.0
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: P452070

CATALOG NUMBER: GALN-SA3A-727-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2095.8	2097.0	2090.7	2079.4	2068.0	2053.5	2037.1	2024.5	2018.8	2018.2	2017.5
5°	2118.5	2121.7	2097.7	2062.3	2023.2	1975.2	1934.2	1887.5	1875.5	1856.6	1862.3
7.5°	2155.1	2153.2	2105.9	2030.8	1939.3	1837.7	1751.8	1702.0	1650.2	1635.7	1636.4
10°	2207.5	2195.5	2105.9	1966.4	1813.7	1662.9	1543.0	1467.2	1426.2	1392.1	1379.5
12.5°	2263.0	2232.7	2085.7	1876.2	1652.1	1467.2	1338.5	1236.3	1209.8	1182.0	1182.6
15°	2316.0	2265.5	2045.9	1749.3	1478.0	1258.4	1133.4	1072.2	1064.0	1067.1	1066.5
17.5°	2364.0	2288.9	1985.3	1608.0	1274.8	1079.1	1012.9	1017.3	1039.4	1055.1	1057.0
20°	2412.6	2302.8	1895.1	1418.6	1082.9	970.6	973.1	1007.8	1041.3	1062.7	1065.9
22.5°	2458.6	2309.1	1789.1	1235.6	944.1	924.5	961.7	999.0	1031.8	1052.6	1055.8
25°	2488.9	2294.6	1638.9	1044.4	875.9	908.1	947.2	978.8	1006.6	1028.0	1033.1
27.5°	2497.1	2247.9	1452.7	889.8	844.4	892.3	928.3	951.7	973.1	993.3	997.1
30°	2492.7	2179.1	1248.3	798.9	826.1	874.0	901.8	918.8	944.7	960.5	963.6
32.5°	2485.8	2098.9	1035.0	750.3	810.9	857.0	873.4	888.5	887.9	881.6	886.0
35°	2488.3	2003.0	862.0	721.3	797.7	844.4	858.3	839.3	785.0	782.5	780.0
37.5°	2501.6	1908.4	736.5	701.1	790.7	842.5	850.0	763.0	715.0	692.9	687.2
40°	2535.6	1797.9	653.8	686.0	790.1	857.0	812.8	724.5	632.3	589.4	586.3
42.5°	2581.1	1689.4	603.3	676.5	797.7	879.1	797.7	670.2	569.9	544.6	540.8
45°	2648.6	1565.1	575.5	672.1	809.0	887.3	792.6	630.4	544.6	524.4	524.4
47.5°	2725.0	1446.4	560.4	668.9	823.5	881.6	747.8	617.8	532.6	535.1	547.1
50°	2800.7	1343.5	549.0	662.0	836.2	878.4	729.5	617.2	535.8	568.0	589.4
52.5°	2888.4	1271.0	535.1	650.6	836.2	858.3	723.8	629.8	544.6	554.1	563.5
55°	2994.4	1248.3	517.5	626.0	821.0	807.8	720.7	648.1	550.9	528.8	532.6
57.5°	3134.5	1284.9	500.4	595.1	786.3	755.4	719.4	653.2	536.4	518.1	514.3
60°	3297.3	1357.4	495.4	563.5	739.0	710.6	711.8	638.6	516.2	497.3	500.4
62.5°	3411.6	1401.0	492.2	539.6	687.2	661.4	693.5	621.0	507.4	491.0	494.1
65°	3411.6	1348.0	463.2	503.0	620.3	602.0	671.5	598.9	496.0	477.1	473.9
67.5°	3282.2	1193.4	419.0	448.1	546.5	534.5	640.5	572.4	479.0	464.5	456.9
70°	2945.2	905.0	363.5	383.7	453.1	463.8	600.8	536.4	450.6	432.9	421.6
71°	2796.9	788.2	340.1	350.9	417.1	432.9	581.8	521.3	438.0	412.7	392.5
72.5°	2511.0	663.9	304.8	309.2	356.6	385.0	542.1	492.2	414.0	378.0	355.3
75°	1907.7	484.7	245.5	243.0	263.8	305.4	458.8	438.6	362.9	314.3	301.0
77.5°	824.2	263.8	183.6	185.5	179.2	231.6	361.0	376.7	311.1	255.6	243.6
80°	249.9	152.1	125.6	128.1	119.9	155.2	254.3	295.3	249.9	198.8	182.4
82.5°	128.1	90.9	85.8	84.6	76.4	87.7	154.0	201.9	178.6	124.3	109.8
85°	55.5	48.6	42.3	41.0	36.0	31.6	54.9	101.0	94.7	69.4	66.3
87.5°	13.9	12.6	8.2	7.6	4.4	0.6	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)