

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: P527308

Luminaire Tested: **GALN-SA2B-740-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527308
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-SA2B-740-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 9756 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

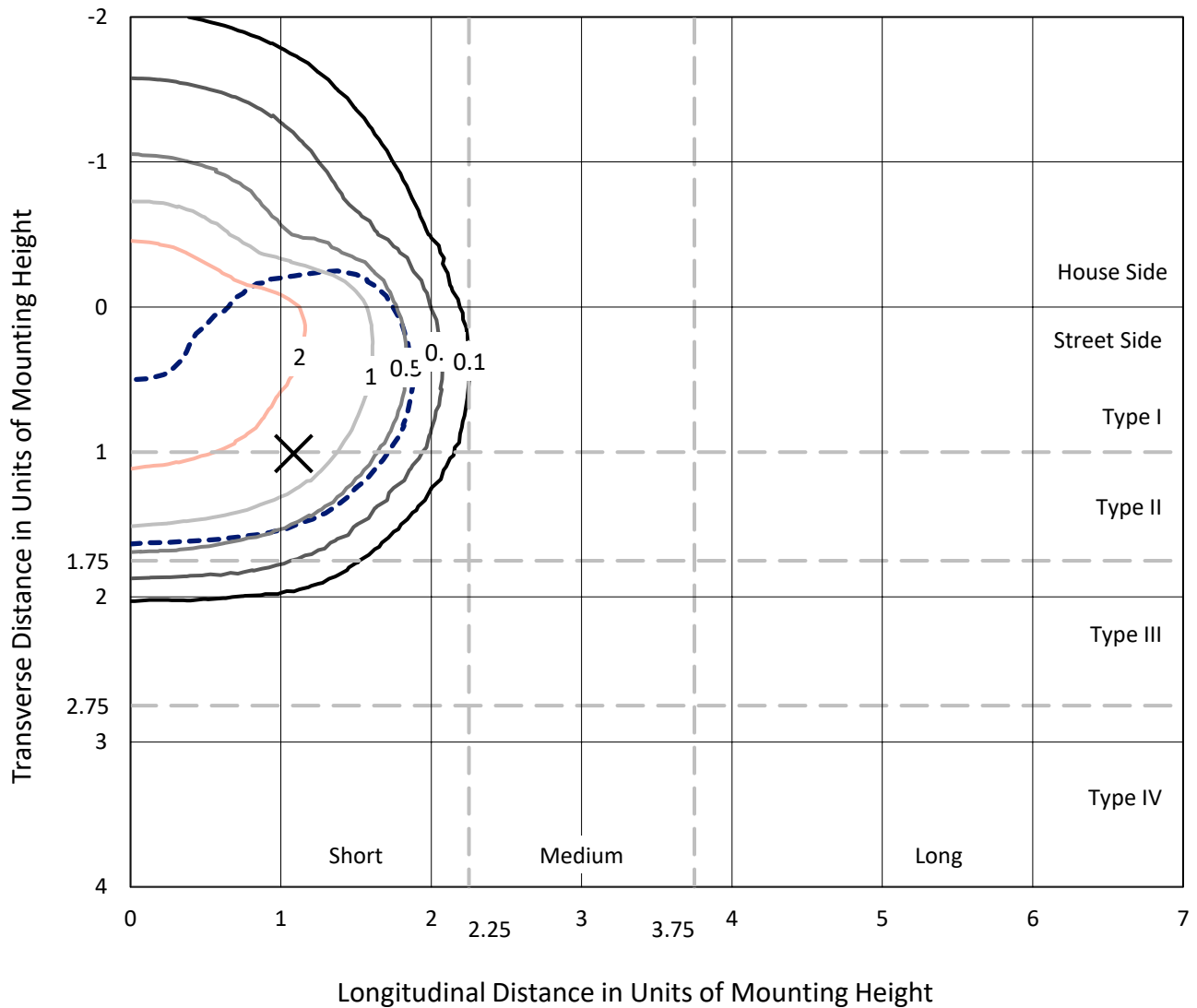
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

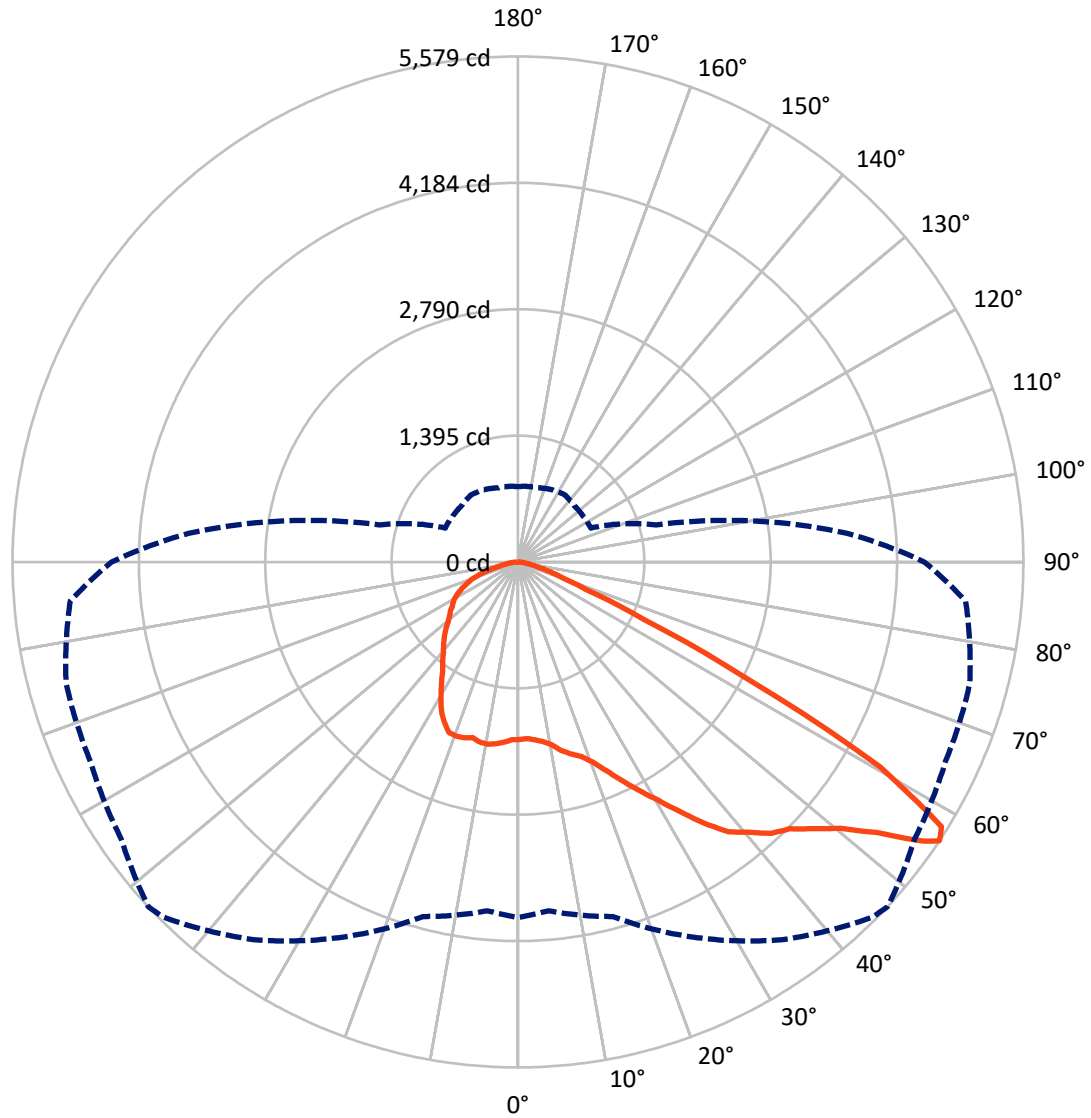
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3091.6	0.0	3091.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6664.4	0.0	6664.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	9756.0	0.0	9756.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	2.0
10°-20°	602.3	6.2
20°-30°	1064.8	10.9
30°-40°	1599.3	16.4
40°-50°	2194.8	22.5
50°-60°	2614.9	26.8
60°-70°	1119.0	11.5
70°-80°	316.7	3.2
80°-90°	53.3	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°	9756.0	100.0
0°-180°	9756.0	100.0

Coefficient of Utilization



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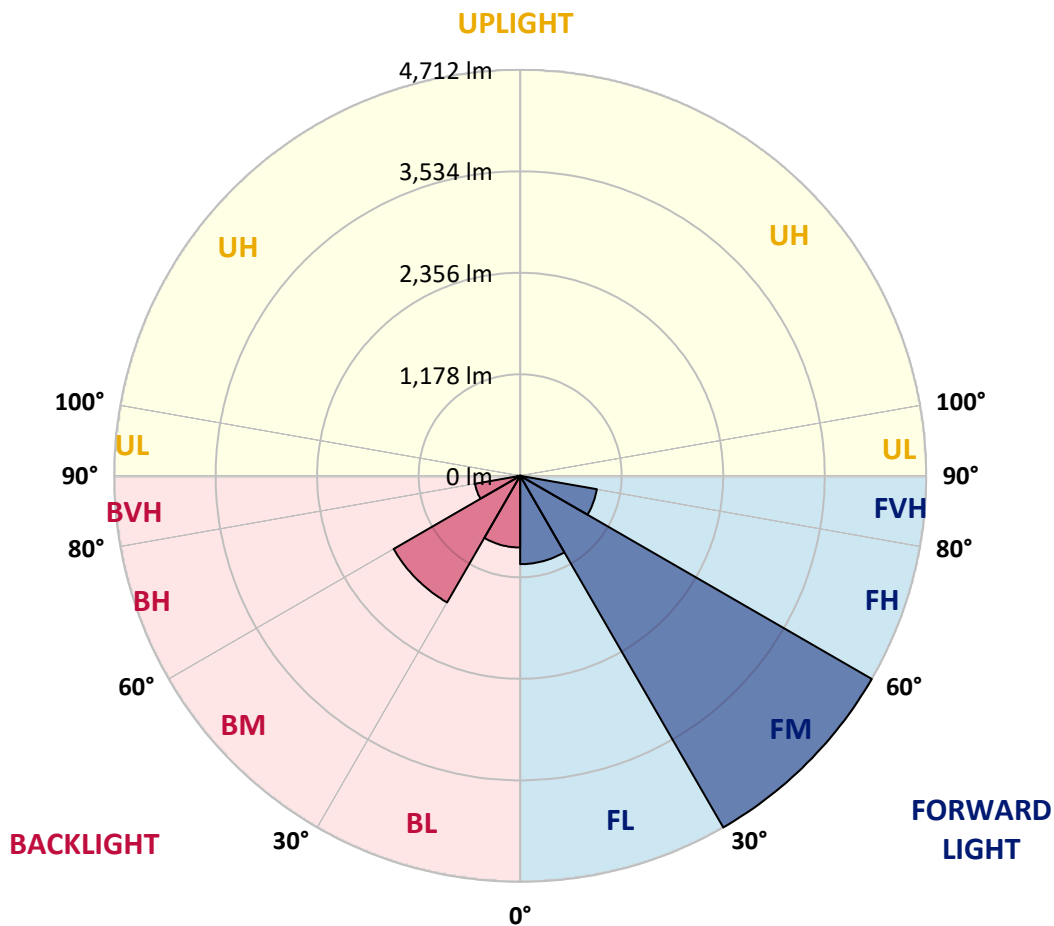
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.7	10.5			
FM (30°-60°)	4712.4	48.3			
FH (60°-80°)	903.8	9.3			G1/1800
FVH (80°-90°)	22.6	0.2			G1/100
BL (0°-30°)	832.4	8.5	B2/1000		
BM (30°-60°)	1696.6	17.4	B2/2500		
BH (60°-80°)	531.9	5.5	B2/1000		G2/1000
BVH (80°-90°)	30.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7
2.5°	1952.2	1948.5	1946.0	1965.9	1958.4	1959.7	1952.2	1959.7	1964.7	1953.5	1969.6
5°	1948.5	1959.7	1949.7	1956.0	1972.1	1967.1	1972.1	1987.1	1983.3	1979.6	1974.6
7.5°	1983.3	1984.6	1992.0	1994.5	1999.5	1994.5	2002.0	2015.7	2011.9	1990.8	1993.3
10°	2033.1	2035.6	2036.8	2050.5	2059.2	2060.5	2051.8	2039.3	2038.1	2066.7	2046.8
12.5°	2090.3	2084.1	2099.0	2104.0	2114.0	2125.2	2136.4	2110.2	2126.4	2127.7	2104.0
15°	2173.7	2179.9	2162.5	2162.5	2166.2	2167.5	2198.6	2186.1	2183.6	2170.0	2179.9
17.5°	2298.1	2255.8	2254.6	2237.2	2234.7	2244.6	2255.8	2265.8	2299.4	2272.0	2218.5
20°	2388.9	2398.9	2362.8	2341.7	2345.4	2367.8	2356.6	2401.4	2425.0	2380.2	2328.0
22.5°	2549.5	2515.9	2524.6	2477.3	2481.0	2504.7	2503.4	2549.5	2563.1	2492.2	2416.3
25°	2657.7	2649.0	2656.5	2619.1	2624.1	2642.8	2672.6	2748.5	2726.1	2647.8	2472.3
27.5°	2815.7	2798.3	2792.1	2778.4	2773.4	2823.2	2858.0	2938.9	2922.7	2808.3	2571.9
30°	2977.5	2966.3	2972.5	2916.5	2936.4	3042.2	3052.1	3162.9	3155.4	2953.8	2682.6
32.5°	3089.5	3095.7	3106.9	3075.8	3164.1	3248.7	3282.3	3408.0	3414.2	3203.9	2896.6
35°	3269.9	3248.7	3254.9	3291.0	3332.1	3486.4	3541.1	3624.5	3676.7	3466.5	3101.9
37.5°	3383.1	3405.5	3379.4	3436.6	3543.6	3729.0	3778.8	3864.6	3919.4	3725.3	3381.9
40°	3559.8	3523.7	3542.4	3583.4	3692.9	3934.3	3920.6	4009.0	4026.4	3945.5	3643.1
42.5°	3750.2	3732.7	3706.6	3799.9	3892.0	4067.4	4094.8	4053.7	4142.1	4160.8	4016.4
45°	3977.8	3999.0	4002.7	4005.2	4086.1	4239.1	4201.8	4165.7	4267.8	4403.4	4247.8
47.5°	4189.4	4122.2	4170.7	4237.9	4352.4	4353.6	4397.2	4311.3	4419.6	4540.2	4456.9
50°	4260.3	4227.9	4292.6	4419.6	4596.2	4614.9	4619.9	4497.9	4553.9	4649.7	4529.0
52.5°	4232.9	4221.7	4387.2	4583.8	4842.6	4937.2	4962.0	4811.5	4842.6	4799.0	4688.3
55°	4102.3	4135.9	4302.6	4703.2	5100.2	5392.6	5439.8	5249.5	5051.6	5085.2	4963.3
56°	3923.1	3864.6	4051.3	4567.6	5089.0	5540.6	5579.2	5341.5	5207.2	5163.6	4960.8
57.5°	3328.4	3252.5	3497.6	4109.7	4806.5	5484.6	5513.2	5380.1	5181.0	5092.7	4598.7
60°	1948.5	1985.8	2296.9	2834.4	3707.8	4496.7	4592.5	4689.6	4556.4	4160.8	3422.9
62.5°	940.6	917.0	1139.7	1625.0	2259.5	2870.5	2841.9	3114.3	3263.7	2956.3	2161.3
65°	492.7	490.2	622.1	887.1	1241.8	1508.0	1534.2	1681.0	1886.3	1523.0	1097.4
67.5°	362.1	372.0	438.0	623.4	798.8	815.0	811.2	884.7	904.6	765.2	674.4
70°	283.7	288.7	337.2	474.1	594.7	532.5	521.3	530.0	588.5	613.4	583.6
72.5°	205.3	210.3	251.3	319.8	372.0	363.3	370.8	419.3	491.5	517.6	486.5
75°	136.9	140.6	163.0	195.3	220.2	237.7	251.3	307.3	374.5	389.4	374.5
77.5°	94.6	98.3	113.2	138.1	140.6	151.8	156.8	182.9	224.0	242.6	232.7
80°	53.5	53.5	61.0	70.9	87.1	102.0	104.5	125.7	144.3	156.8	159.3
82.5°	24.9	26.1	32.4	43.5	57.2	70.9	73.4	87.1	100.8	113.2	117.0
85°	12.4	13.7	18.7	26.1	34.8	42.3	41.1	42.3	44.8	42.3	43.5
87.5°	3.7	3.7	5.0	6.2	5.0	6.2	6.2	7.5	8.7	10.0	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7	1959.7
2.5°	1970.9	1974.6	1949.7	1973.4	1964.7	1963.4	1980.8	1978.3	1984.6	1982.1	1967.1
5°	1972.1	1963.4	1989.5	1965.9	1977.1	2000.7	1984.6	2021.9	2003.2	2015.7	1988.3
7.5°	2010.7	2013.2	2008.2	2018.2	2013.2	2024.4	2015.7	2024.4	2009.5	2010.7	2035.6
10°	2044.3	2036.8	2045.5	2033.1	2041.8	2038.1	2018.2	2011.9	2016.9	2010.7	2026.9
12.5°	2106.5	2092.8	2086.6	2071.7	2061.7	2024.4	1993.3	1975.9	1999.5	2003.2	1995.8
15°	2170.0	2171.2	2142.6	2109.0	2046.8	1990.8	1998.3	2004.5	2004.5	2014.4	1995.8
17.5°	2209.8	2209.8	2183.6	2116.5	2053.0	2020.7	2013.2	1993.3	1975.9	1973.4	1972.1
20°	2279.5	2258.3	2198.6	2115.2	2050.5	2035.6	1979.6	1932.3	1896.2	1883.8	1882.5
22.5°	2359.1	2305.6	2222.2	2117.7	2046.8	2025.6	1921.1	1850.2	1785.5	1758.1	1761.8
25°	2432.5	2346.6	2235.9	2106.5	2033.1	1931.1	1814.1	1715.8	1648.6	1626.2	1615.0
27.5°	2483.5	2390.2	2235.9	2116.5	1982.1	1825.3	1705.9	1580.2	1521.7	1506.8	1509.3
30°	2551.9	2444.9	2274.5	2095.3	1880.1	1688.4	1545.4	1463.2	1428.4	1415.9	1424.7
32.5°	2712.5	2588.0	2328.0	2044.3	1759.4	1551.6	1435.9	1389.8	1338.8	1313.9	1305.2
35°	2886.6	2723.6	2380.2	1958.4	1623.7	1427.1	1355.0	1312.7	1251.7	1224.3	1229.3
37.5°	3133.0	2897.8	2384.0	1816.6	1476.9	1357.5	1291.5	1225.6	1175.8	1133.5	1121.1
40°	3465.2	3135.5	2375.3	1667.3	1358.7	1275.3	1226.8	1144.7	1088.7	1058.9	1065.1
42.5°	3757.6	3414.2	2339.2	1498.1	1251.7	1219.4	1164.6	1083.7	1029.0	997.9	995.4
45°	4004.0	3619.5	2270.7	1353.7	1162.1	1157.1	1093.7	1031.5	987.9	959.3	971.8
47.5°	4231.7	3785.0	2167.5	1209.4	1080.0	1090.0	1029.0	990.4	963.0	936.9	935.7
50°	4313.8	3782.5	2076.6	1090.0	1014.1	1009.1	1006.6	965.5	936.9	914.5	924.5
52.5°	4450.7	3824.8	1978.3	1007.8	954.3	955.6	964.3	934.4	902.1	888.4	900.8
55°	4647.3	3831.0	1761.8	912.0	904.6	913.3	913.3	893.4	866.0	854.8	848.6
56°	4486.7	3645.6	1580.2	887.1	879.7	879.7	903.3	880.9	847.3	838.6	831.2
57.5°	4138.4	3194.0	1322.6	857.3	846.1	863.5	875.9	852.3	821.2	808.8	816.2
60°	2854.3	2161.3	994.2	792.6	792.6	821.2	831.2	796.3	782.6	781.4	771.4
62.5°	1666.0	1259.2	777.7	734.1	736.6	760.2	767.7	747.8	730.4	751.5	761.5
65°	883.4	751.5	666.9	671.9	673.1	691.8	724.1	722.9	721.7	727.9	729.1
67.5°	639.5	624.6	605.9	601.0	603.5	617.1	649.5	674.4	673.1	658.2	647.0
70°	569.9	548.7	537.5	538.8	528.8	545.0	571.1	587.3	558.7	541.2	533.8
72.5°	474.1	467.8	460.4	461.6	441.7	438.0	408.1	408.1	400.6	395.7	404.4
75°	362.1	359.6	363.3	357.1	335.9	313.5	296.1	280.0	255.1	245.1	240.1
77.5°	228.9	236.4	245.1	231.4	222.7	206.5	189.1	172.9	153.0	141.8	141.8
80°	155.5	161.8	168.0	165.5	155.5	140.6	126.9	109.5	95.8	87.1	85.9
82.5°	118.2	123.2	131.9	121.9	112.0	99.5	88.3	75.9	63.5	53.5	53.5
85°	42.3	48.5	53.5	58.5	62.2	63.5	54.7	44.8	36.1	28.6	27.4
87.5°	11.2	12.4	13.7	12.4	12.4	12.4	13.7	12.4	11.2	8.7	8.7
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)