

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P527932

Luminaire Tested: **GALN-SA3A-727-U-T3-GRSWH**

Issue Date: 5/27/2021

Report Generated By 670246001

Test Information

Test Method: LM-79-08
Report Number: P527932
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-SA3A-727-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 9734 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

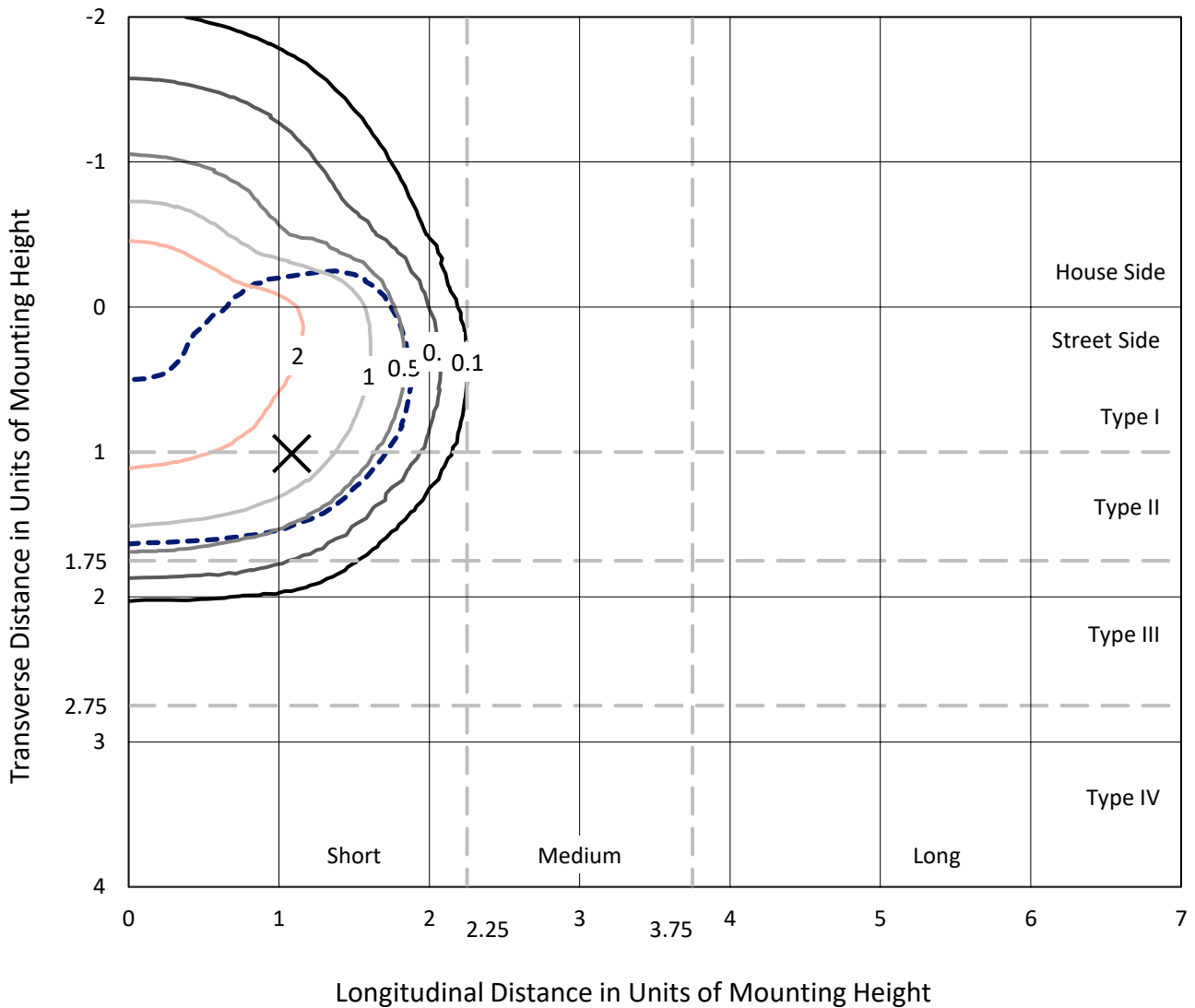
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

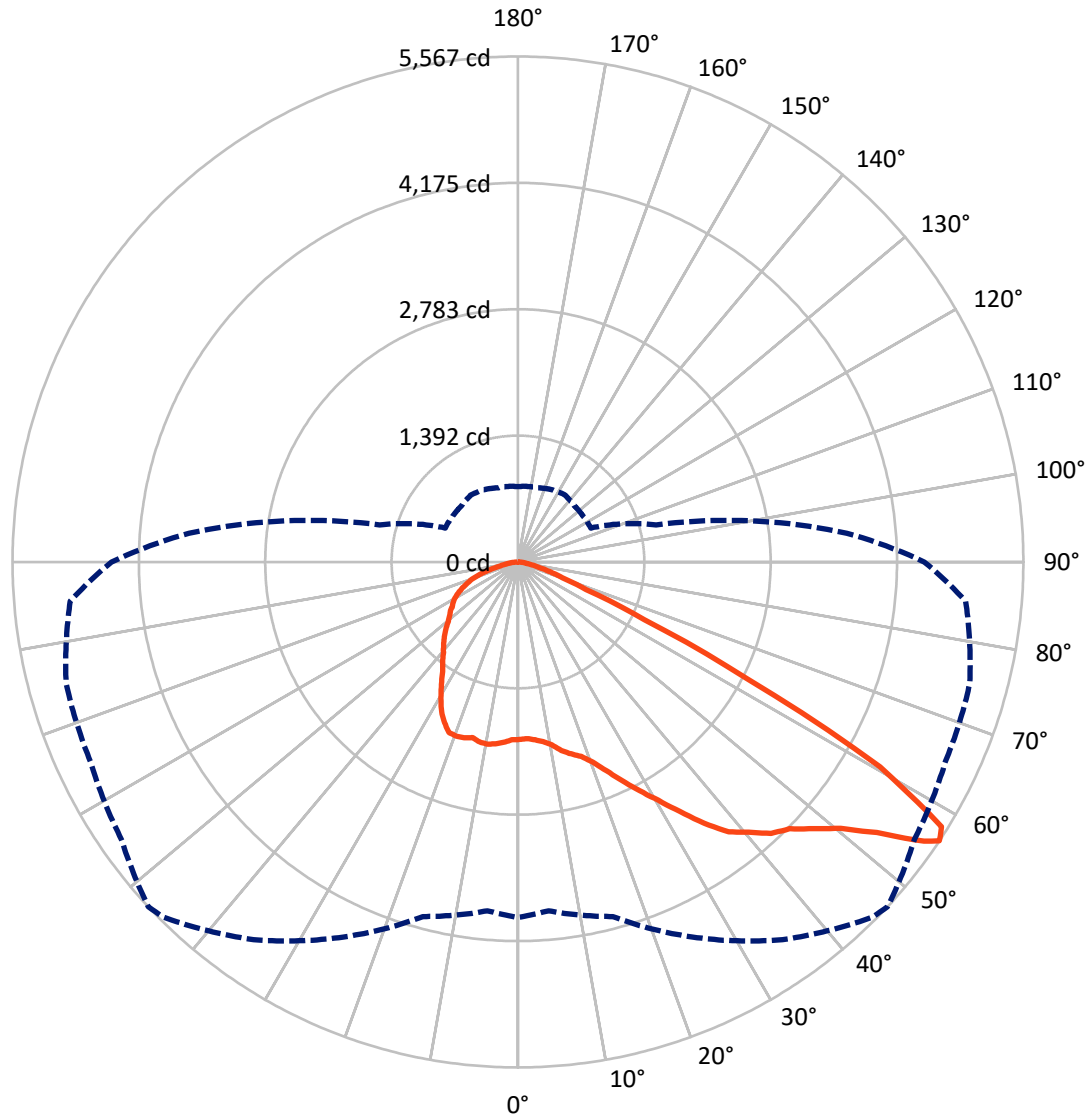
✕ Max cd
 - - - 1/2 Max cd



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	3084.6	0.0	3084.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	6649.4	0.0	6649.4
	% Fixture	68.3	0.0	68.3
Total	Lumens	9734.0	0.0	9734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	2.0
10°-20°	601.0	6.2
20°-30°	1062.4	10.9
30°-40°	1595.7	16.4
40°-50°	2189.9	22.5
50°-60°	2609.0	26.8
60°-70°	1116.5	11.5
70°-80°	316.0	3.2
80°-90°	53.2	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°	9734.0	100.0
0°-180°	9734.0	100.0

Coefficient of Utilization



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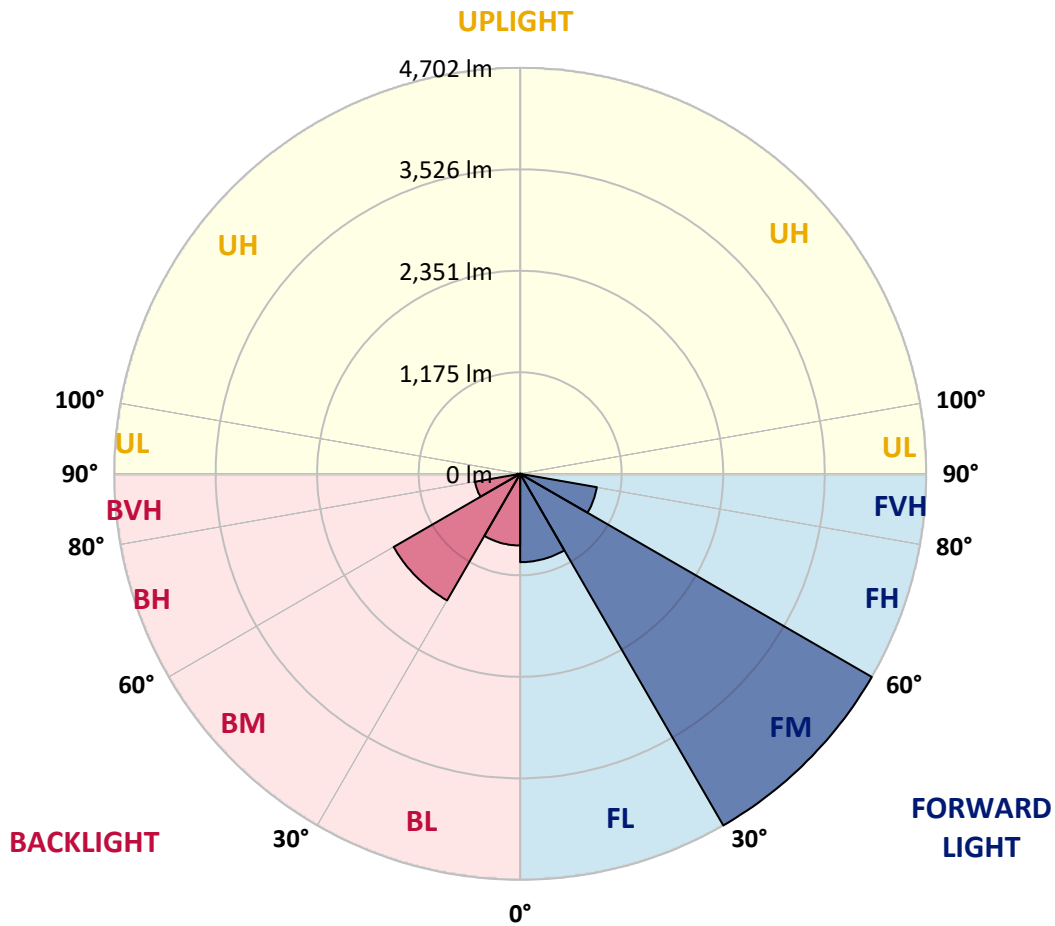
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1023.4	10.5			
FM (30°-60°)	4701.7	48.3			
FH (60°-80°)	901.7	9.3			G1/1800
FVH (80°-90°)	22.6	0.2			G1/100
BL (0°-30°)	830.5	8.5	B2/1000		
BM (30°-60°)	1692.8	17.4	B2/2500		
BH (60°-80°)	530.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	30.6	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°	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3
2.5°	1947.8	1944.1	1941.6	1961.5	1954.0	1955.3	1947.8	1955.3	1960.2	1949.1	1965.2
5°	1944.1	1955.3	1945.3	1951.5	1967.7	1962.7	1967.7	1982.6	1978.9	1975.1	1970.2
7.5°	1978.9	1980.1	1987.5	1990.0	1995.0	1990.0	1997.5	2011.1	2007.4	1986.3	1988.8
10°	2028.5	2031.0	2032.2	2045.9	2054.6	2055.8	2047.1	2034.7	2033.5	2062.0	2042.2
12.5°	2085.6	2079.4	2094.3	2099.3	2109.2	2120.4	2131.5	2105.5	2121.6	2122.9	2099.3
15°	2168.8	2175.0	2157.6	2157.6	2161.3	2162.6	2193.6	2181.2	2178.7	2165.1	2175.0
17.5°	2292.9	2250.7	2249.5	2232.1	2229.6	2239.6	2250.7	2260.7	2294.2	2266.9	2213.5
20°	2383.6	2393.5	2357.5	2336.4	2340.1	2362.5	2351.3	2396.0	2419.6	2374.9	2322.7
22.5°	2543.7	2510.2	2518.9	2471.7	2475.4	2499.0	2497.8	2543.7	2557.4	2486.6	2410.9
25°	2651.7	2643.0	2650.5	2613.2	2618.2	2636.8	2666.6	2742.3	2720.0	2641.8	2466.7
27.5°	2809.4	2792.0	2785.8	2772.1	2767.2	2816.8	2851.6	2932.3	2916.1	2801.9	2566.1
30°	2970.8	2959.6	2965.8	2909.9	2929.8	3035.3	3045.2	3155.7	3148.3	2947.2	2676.5
32.5°	3082.5	3088.7	3099.9	3068.8	3157.0	3241.4	3274.9	3400.3	3406.5	3196.7	2890.1
35°	3262.5	3241.4	3247.6	3283.6	3324.6	3478.5	3533.1	3616.3	3668.4	3458.6	3094.9
37.5°	3375.5	3397.8	3371.7	3428.9	3535.6	3720.6	3770.2	3855.9	3910.5	3716.9	3374.2
40°	3551.8	3515.8	3534.4	3575.3	3684.6	3925.4	3911.8	3999.9	4017.3	3936.6	3634.9
42.5°	3741.7	3724.3	3698.2	3791.4	3883.2	4058.3	4085.6	4044.6	4132.7	4151.4	4007.4
45°	3968.9	3990.0	3993.7	3996.2	4076.9	4229.6	4192.3	4156.3	4258.1	4393.4	4238.3
47.5°	4179.9	4112.9	4161.3	4228.3	4342.6	4343.8	4387.2	4301.6	4409.6	4530.0	4446.8
50°	4250.7	4218.4	4283.0	4409.6	4585.9	4604.5	4609.5	4487.8	4543.7	4639.3	4518.8
52.5°	4223.4	4212.2	4377.3	4573.5	4831.7	4926.0	4950.9	4800.6	4831.7	4788.2	4677.7
55°	4093.0	4126.5	4292.9	4692.6	5088.7	5380.4	5427.6	5237.6	5040.2	5073.8	4952.1
56°	3914.3	3855.9	4042.1	4557.3	5077.5	5528.1	5566.6	5329.5	5195.4	5152.0	4949.6
57.5°	3320.8	3245.1	3489.7	4100.5	4795.7	5472.3	5500.8	5368.0	5169.3	5081.2	4588.4
60°	1944.1	1981.3	2291.7	2828.0	3699.5	4486.6	4582.1	4679.0	4546.1	4151.4	3415.2
62.5°	938.5	914.9	1137.2	1621.3	2254.5	2864.0	2835.4	3107.3	3256.3	2949.7	2156.4
65°	491.6	489.1	620.7	885.1	1239.0	1504.6	1530.7	1677.2	1882.0	1519.5	1094.9
67.5°	361.3	371.2	437.0	622.0	797.0	813.1	809.4	882.7	902.5	763.5	672.9
70°	283.0	288.0	336.4	473.0	593.4	531.3	520.2	528.9	587.2	612.0	582.2
72.5°	204.8	209.8	250.8	319.0	371.2	362.5	369.9	418.4	490.4	516.4	485.4
75°	136.6	140.3	162.6	194.9	219.7	237.1	250.8	306.6	373.7	388.6	373.7
77.5°	94.3	98.1	113.0	137.8	140.3	151.5	156.4	182.5	223.5	242.1	232.1
80°	53.4	53.4	60.8	70.8	86.9	101.8	104.3	125.4	144.0	156.4	158.9
82.5°	24.8	26.1	32.3	43.5	57.1	70.8	73.2	86.9	100.6	113.0	116.7
85°	12.4	13.7	18.6	26.1	34.8	42.2	41.0	42.2	44.7	42.2	43.5
87.5°	3.7	3.7	5.0	6.2	5.0	6.2	6.2	7.4	8.7	9.9	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°	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3	1955.3
2.5°	1966.4	1970.2	1945.3	1968.9	1960.2	1959.0	1976.4	1973.9	1980.1	1977.6	1962.7
5°	1967.7	1959.0	1985.1	1961.5	1972.6	1996.2	1980.1	2017.3	1998.7	2011.1	1983.8
7.5°	2006.2	2008.6	2003.7	2013.6	2008.6	2019.8	2011.1	2019.8	2004.9	2006.2	2031.0
10°	2039.7	2032.2	2040.9	2028.5	2037.2	2033.5	2013.6	2007.4	2012.4	2006.2	2022.3
12.5°	2101.8	2088.1	2081.9	2067.0	2057.1	2019.8	1988.8	1971.4	1995.0	1998.7	1991.3
15°	2165.1	2166.3	2137.8	2104.2	2042.2	1986.3	1993.7	2000.0	2000.0	2009.9	1991.3
17.5°	2204.8	2204.8	2178.7	2111.7	2048.4	2016.1	2008.6	1988.8	1971.4	1968.9	1967.7
20°	2274.3	2253.2	2193.6	2110.4	2045.9	2031.0	1975.1	1928.0	1892.0	1879.5	1878.3
22.5°	2353.8	2300.4	2217.2	2112.9	2042.2	2021.1	1916.8	1846.0	1781.5	1754.2	1757.9
25°	2427.0	2341.4	2230.9	2101.8	2028.5	1926.7	1810.0	1711.9	1644.9	1622.6	1611.4
27.5°	2477.9	2384.8	2230.9	2111.7	1977.6	1821.2	1702.0	1576.6	1518.3	1503.4	1505.9
30°	2546.2	2439.4	2269.3	2090.6	1875.8	1684.6	1541.9	1459.9	1425.2	1412.8	1421.4
32.5°	2706.3	2582.2	2322.7	2039.7	1755.4	1548.1	1432.6	1386.7	1335.8	1311.0	1302.3
35°	2880.1	2717.5	2374.9	1954.0	1620.1	1423.9	1351.9	1309.7	1248.9	1221.6	1226.5
37.5°	3125.9	2891.3	2378.6	1812.5	1473.6	1354.4	1288.6	1222.8	1173.2	1131.0	1118.5
40°	3457.4	3128.4	2369.9	1663.5	1355.7	1272.5	1224.1	1142.1	1086.3	1056.5	1062.7
42.5°	3749.1	3406.5	2333.9	1494.7	1248.9	1216.6	1162.0	1081.3	1026.7	995.6	993.2
45°	3994.9	3611.3	2265.6	1350.7	1159.5	1154.5	1091.2	1029.2	985.7	957.1	969.6
47.5°	4222.1	3776.5	2162.6	1206.7	1077.6	1087.5	1026.7	988.2	960.9	934.8	933.6
50°	4304.1	3774.0	2072.0	1087.5	1011.8	1006.8	1004.3	963.4	934.8	912.5	922.4
52.5°	4440.6	3816.2	1973.9	1005.6	952.2	953.4	962.1	932.3	900.0	886.4	898.8
55°	4636.8	3822.4	1757.9	910.0	902.5	911.2	911.2	891.4	864.0	852.9	846.7
56°	4476.6	3637.4	1576.6	885.1	877.7	877.7	901.3	878.9	845.4	836.7	829.3
57.5°	4129.0	3186.8	1319.6	855.4	844.2	861.6	874.0	850.4	819.3	806.9	814.4
60°	2847.9	2156.4	991.9	790.8	790.8	819.3	829.3	794.5	780.9	779.6	769.7
62.5°	1662.3	1256.3	775.9	732.4	734.9	758.5	766.0	746.1	728.7	749.8	759.8
65°	881.4	749.8	665.4	670.4	671.6	690.2	722.5	721.3	720.0	726.2	727.5
67.5°	638.1	623.2	604.6	599.6	602.1	615.8	648.0	672.9	671.6	656.7	645.5
70°	568.6	547.5	536.3	537.5	527.6	543.7	569.8	586.0	557.4	540.0	532.6
72.5°	473.0	466.8	459.3	460.6	440.7	437.0	407.2	407.2	399.7	394.8	403.5
75°	361.3	358.8	362.5	356.3	335.2	312.8	295.5	279.3	254.5	244.6	239.6
77.5°	228.4	235.9	244.6	230.9	222.2	206.1	188.7	172.6	152.7	141.5	141.5
80°	155.2	161.4	167.6	165.1	155.2	140.3	126.6	109.2	95.6	86.9	85.7
82.5°	117.9	122.9	131.6	121.7	111.7	99.3	88.1	75.7	63.3	53.4	53.4
85°	42.2	48.4	53.4	58.3	62.1	63.3	54.6	44.7	36.0	28.6	27.3
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)