

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: P458738

Luminaire Tested: **GALN-SA2D-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2D-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14371 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

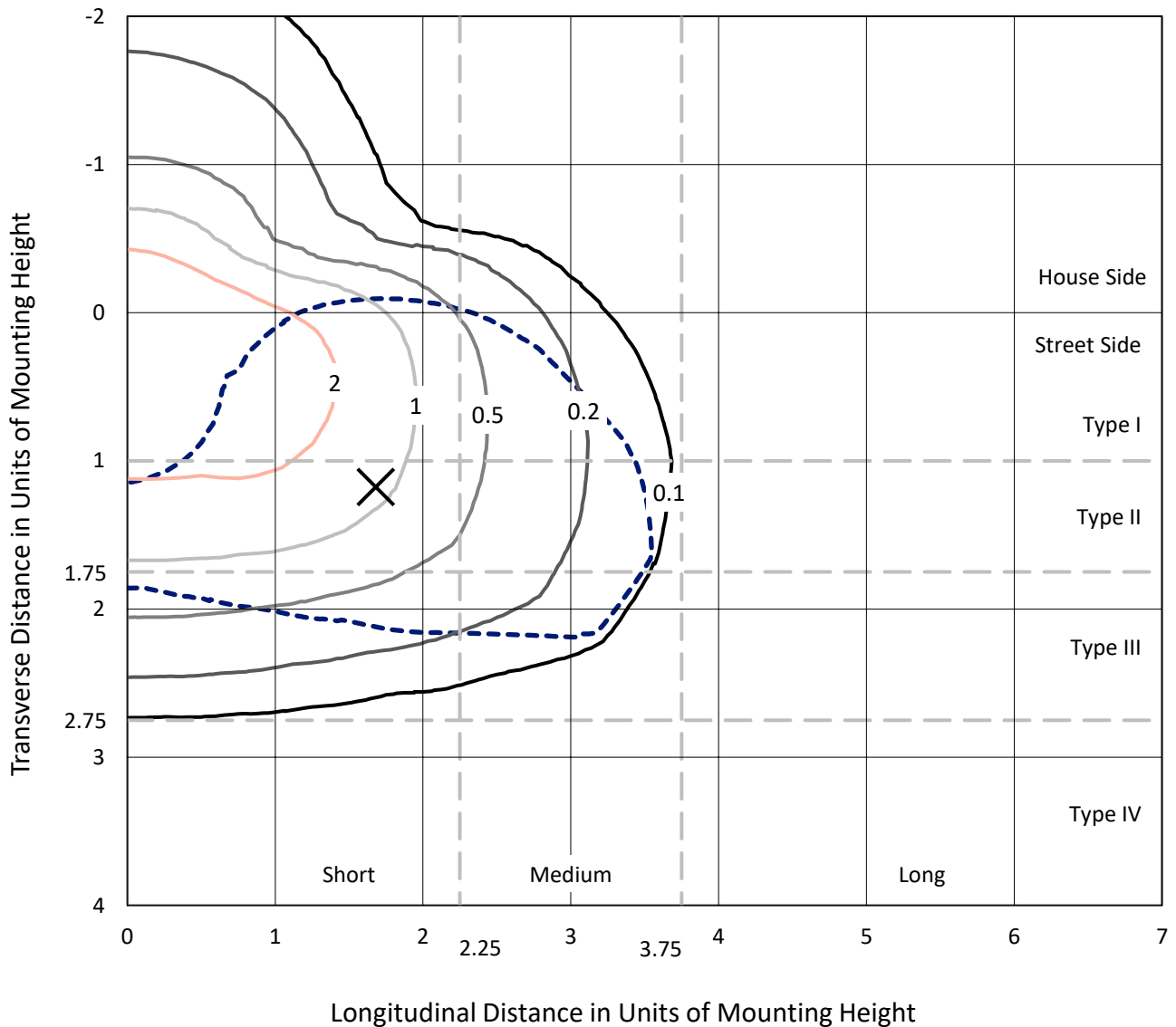
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

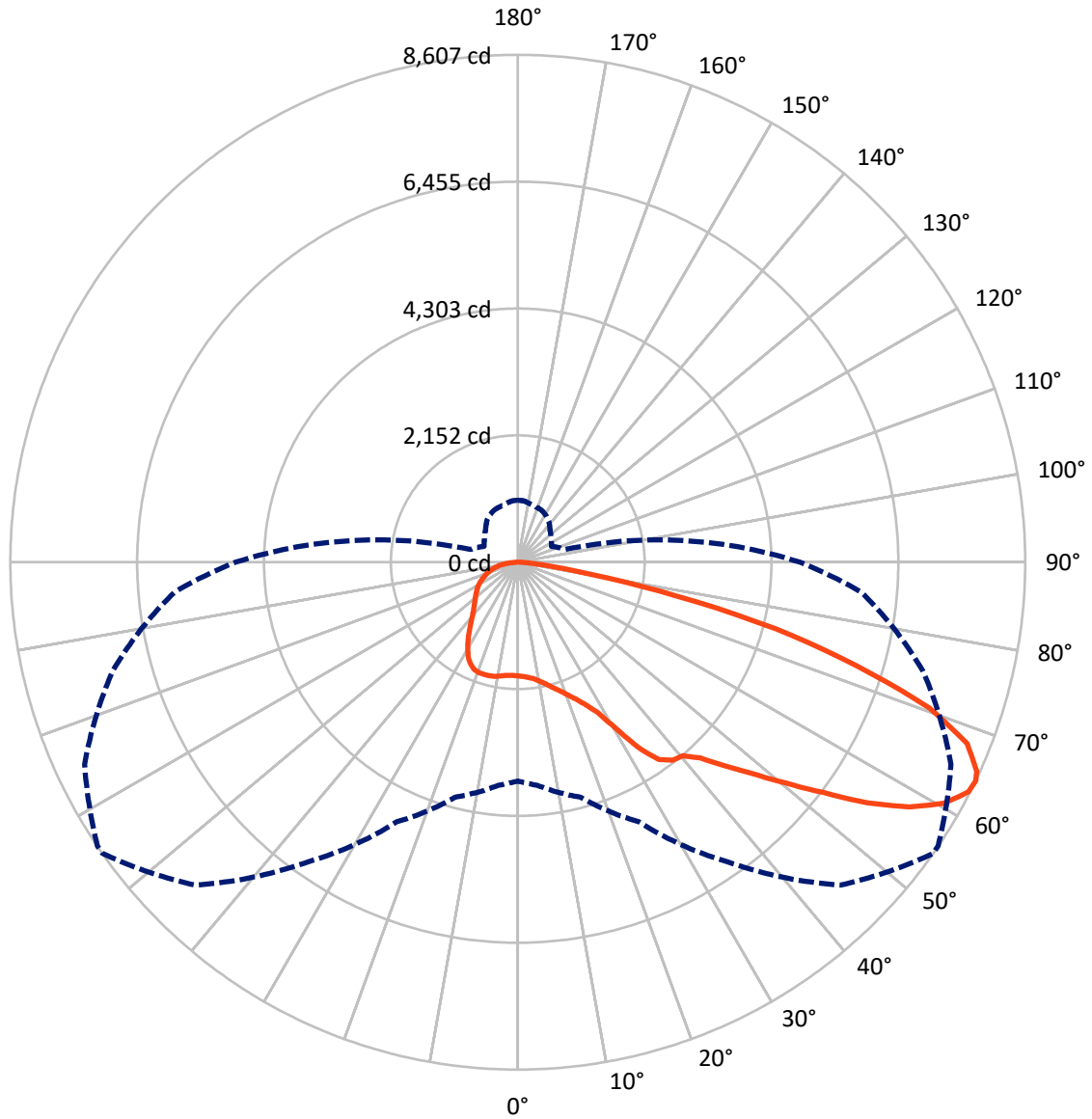
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3491.0	0.0	3491.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	10880.0	0.0	10880.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	14371.0	0.0	14371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	1.3
10°-20°	591.8	4.1
20°-30°	1053.6	7.3
30°-40°	1621.0	11.3
40°-50°	2297.9	16.0
50°-60°	3326.2	23.1
60°-70°	3442.3	24.0
70°-80°	1612.0	11.2
80°-90°	238.6	1.7
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°	14371.0	100.0
0°-180°	14371.0	100.0

Coefficient of Utilization



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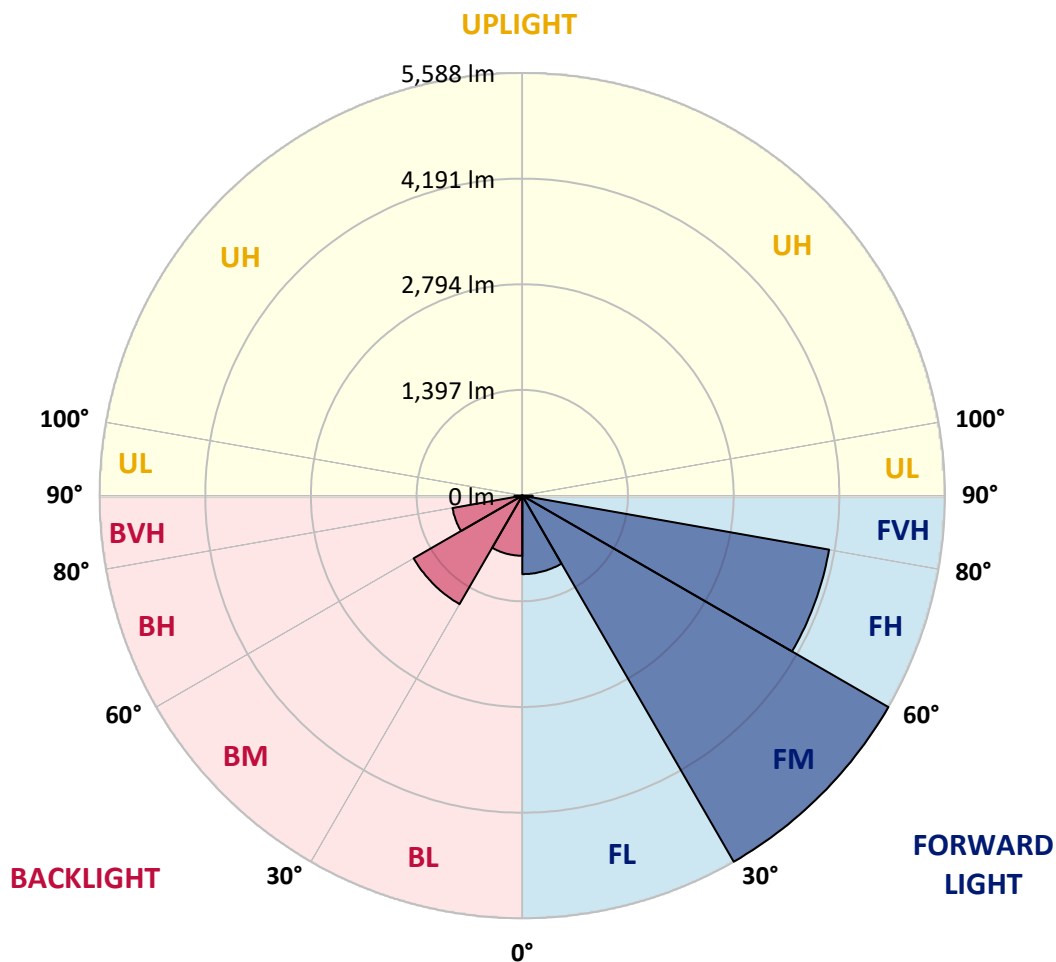
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1037.8	7.2			
FM	(30°-60°)	5587.8	38.9			
FH	(60°-80°)	4117.7	28.7			G2/5000
FVH	(80°-90°)	136.6	1.0			G2/225
BL	(0°-30°)	795.1	5.5	B2/1000		
BM	(30°-60°)	1657.3	11.5	B2/2500		
BH	(60°-80°)	936.6	6.5	B2/1000		G2/1000
BVH	(80°-90°)	102.0	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2
2.5°	1949.8	1949.0	1951.4	1949.0	1950.6	1945.0	1942.6	1944.2	1941.8	1937.8	1930.6
5°	1973.8	1973.0	1973.8	1970.6	1972.2	1969.0	1963.4	1965.0	1961.0	1952.2	1941.8
7.5°	2014.7	2011.5	2011.5	2010.7	2007.5	2002.7	1998.6	1997.0	1993.0	1981.8	1965.8
10°	2067.5	2067.5	2068.3	2061.9	2065.9	2057.1	2053.1	2052.3	2038.7	2024.3	2001.9
12.5°	2137.2	2141.2	2138.8	2135.6	2134.0	2130.8	2117.2	2120.4	2105.2	2080.4	2053.1
15°	2223.7	2230.2	2226.1	2224.5	2220.5	2208.5	2202.9	2200.5	2180.5	2144.4	2108.4
17.5°	2338.3	2330.3	2327.1	2323.1	2306.3	2297.4	2287.8	2286.2	2268.6	2226.1	2170.1
20°	2438.4	2449.6	2443.2	2439.2	2422.4	2405.6	2398.4	2396.0	2380.8	2334.3	2244.6
22.5°	2557.8	2560.2	2562.6	2553.0	2545.0	2532.2	2519.3	2515.3	2509.7	2461.7	2351.9
25°	2685.2	2694.8	2686.8	2677.1	2667.5	2666.7	2678.7	2677.1	2674.7	2628.3	2494.5
27.5°	2892.6	2901.4	2903.8	2893.4	2856.6	2859.8	2887.0	2895.8	2932.7	2855.8	2677.9
30°	3009.6	3018.4	3038.4	3077.7	3136.2	3187.4	3253.1	3273.1	3308.4	3163.4	2895.8
32.5°	3081.7	3084.9	3120.9	3193.8	3369.3	3560.7	3739.4	3746.6	3769.0	3565.5	3095.3
35°	3195.4	3197.8	3226.7	3306.8	3512.7	3831.5	4107.8	4116.7	4098.2	3690.5	3188.2
37.5°	3335.6	3342.0	3360.5	3426.9	3672.9	4058.2	4260.8	4254.4	4091.0	3789.8	3352.4
40°	3539.9	3539.9	3518.3	3608.0	3841.9	4187.9	4314.5	4303.3	4260.0	4077.4	3602.4
42.5°	3720.1	3716.9	3768.2	3829.1	4053.4	4388.2	4539.6	4558.0	4629.3	4438.7	3886.7
45°	3954.8	3969.3	3998.1	4108.6	4413.0	4730.3	4925.7	4943.3	5044.3	4864.0	4219.2
47.5°	4192.0	4196.8	4287.3	4434.7	4858.4	5194.1	5354.3	5383.1	5475.3	5361.5	4577.3
50°	4360.2	4405.8	4550.8	4783.1	5317.4	5759.6	5884.6	5919.0	6081.7	5903.0	4994.6
52.5°	4538.0	4582.9	4759.9	5114.0	5844.5	6338.0	6491.8	6515.0	6684.1	6450.9	5421.6
55°	4690.2	4731.9	4932.9	5407.2	6264.3	6928.4	7207.1	7179.9	7260.8	6873.1	5750.8
57.5°	4715.0	4748.7	5001.8	5594.6	6579.9	7434.6	7834.4	7850.4	7756.7	7188.7	6022.4
60°	4522.8	4591.7	4882.5	5574.6	6721.7	7787.1	8302.2	8313.4	8047.5	7350.5	6130.5
62.5°	4182.3	4175.1	4526.8	5252.6	6523.0	7867.2	8577.8	8565.7	8161.2	7272.8	6025.6
64°	3712.1	3798.6	4127.1	4856.8	6202.6	7743.9	8606.6	8600.2	8106.7	7111.0	5846.9
65°	3425.3	3420.5	3745.0	4533.2	5883.8	7558.0	8555.3	8546.5	7993.0	6966.0	5708.4
67.5°	2472.9	2484.1	2804.5	3498.2	4783.1	6831.5	8221.3	8188.4	7544.4	6485.4	5181.3
70°	1498.0	1504.4	1755.9	2320.7	3433.3	5522.5	7410.6	7412.2	6857.9	5767.6	4409.8
72.5°	789.0	805.9	906.8	1317.7	2085.2	3874.7	6012.0	6154.6	5887.8	4922.5	3483.8
75°	439.0	441.4	512.7	649.7	1063.8	2168.5	4518.8	4559.6	4661.4	3962.0	2576.2
77.5°	334.8	339.6	362.1	419.8	579.2	1005.3	2734.8	2939.9	3285.2	2793.3	1469.9
80°	271.6	276.4	295.6	330.0	385.3	476.6	1270.5	1381.0	1758.3	1240.0	573.6
82.5°	211.5	208.3	233.1	255.5	280.4	282.0	521.5	576.8	716.1	533.5	248.3
85°	157.0	157.0	177.0	172.2	181.0	165.0	229.9	253.9	286.8	226.7	115.4
87.5°	62.5	68.9	116.2	104.1	80.9	64.9	84.9	89.7	99.3	88.9	48.1
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°	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2	1928.2
2.5°	1931.4	1933.8	1928.2	1924.1	1922.5	1920.1	1917.7	1918.5	1921.7	1925.0	1924.1
5°	1941.0	1941.8	1932.2	1927.4	1924.1	1920.9	1920.9	1923.3	1929.8	1934.6	1934.6
7.5°	1965.0	1965.0	1951.4	1942.6	1937.8	1932.2	1930.6	1931.4	1936.2	1942.6	1943.4
10°	2002.7	1999.4	1981.8	1968.2	1959.4	1945.8	1933.8	1927.4	1929.8	1933.8	1933.8
12.5°	2048.3	2039.5	2017.1	1998.6	1977.0	1951.4	1926.6	1913.7	1912.9	1916.9	1915.3
15°	2097.2	2087.6	2056.3	2022.7	1985.0	1947.4	1917.7	1899.3	1884.9	1880.9	1889.7
17.5°	2154.1	2134.0	2090.8	2044.3	1988.2	1939.4	1892.9	1855.3	1829.6	1822.4	1824.8
20°	2222.9	2196.5	2138.0	2065.1	1985.8	1910.5	1838.4	1788.0	1746.3	1733.5	1735.1
22.5°	2318.3	2272.6	2186.9	2075.5	1965.8	1856.1	1755.9	1690.2	1639.8	1619.7	1631.8
25°	2426.4	2376.7	2233.4	2073.1	1913.7	1768.7	1658.2	1572.5	1526.8	1497.2	1503.6
27.5°	2575.4	2487.3	2283.0	2051.5	1839.2	1662.2	1534.0	1453.1	1411.5	1396.2	1403.5
30°	2766.1	2630.7	2336.7	1993.0	1721.5	1527.6	1409.1	1356.2	1331.4	1312.1	1318.5
32.5°	2903.8	2731.6	2348.7	1894.5	1594.1	1405.1	1324.2	1284.9	1257.7	1239.2	1243.2
35°	3002.4	2817.3	2343.1	1773.5	1461.1	1304.1	1256.9	1224.8	1180.8	1140.7	1133.5
37.5°	3134.6	2924.7	2302.3	1641.4	1329.8	1236.0	1202.4	1143.1	1079.8	1026.2	1023.8
40°	3337.2	3050.4	2214.9	1486.0	1217.6	1185.6	1144.7	1067.8	999.7	956.5	953.3
42.5°	3546.3	3166.6	2096.4	1322.6	1125.5	1132.7	1083.0	1006.9	965.3	937.2	934.0
45°	3801.8	3292.4	1968.2	1180.8	1057.4	1083.0	1029.4	985.3	960.5	942.0	937.2
47.5°	4078.2	3421.3	1824.0	1053.4	999.7	1037.4	1006.9	986.9	973.3	960.5	954.9
50°	4376.2	3565.5	1688.6	950.9	947.7	990.1	1004.5	997.3	989.3	985.3	980.5
52.5°	4703.0	3712.9	1574.9	878.8	902.0	956.5	1005.3	1010.9	1010.9	1008.5	1005.3
55°	4924.1	3815.5	1459.5	820.3	855.5	929.2	1003.7	1025.4	1033.4	1030.2	1027.0
57.5°	5087.5	3871.5	1314.5	769.8	816.3	902.8	994.9	1027.0	1035.0	1039.0	1037.4
60°	5121.2	3819.5	1124.7	716.9	773.8	864.3	962.9	1002.9	1013.3	1038.2	1040.6
62.5°	4969.8	3659.2	935.6	664.9	721.8	805.9	919.6	975.7	996.5	1035.0	1039.0
64°	4783.9	3479.8	830.7	632.0	688.1	773.0	898.0	968.5	995.7	1047.0	1050.2
65°	4647.8	3349.2	765.0	611.2	666.5	751.4	886.0	970.9	1002.9	1065.4	1070.2
67.5°	4146.3	2899.8	632.8	562.3	615.2	714.5	888.4	990.9	1001.3	1072.6	1071.8
70°	3430.9	2308.7	530.3	517.5	565.5	684.9	878.8	958.9	959.7	1006.9	995.7
72.5°	2569.0	1706.3	459.8	471.0	510.3	614.4	829.9	915.6	902.0	908.4	897.2
75°	1764.7	1128.7	395.7	421.4	452.6	543.1	761.0	831.5	809.9	801.9	793.9
77.5°	942.0	624.0	329.2	372.5	393.3	469.4	664.1	732.2	709.7	678.5	668.1
80°	381.3	294.0	265.2	308.4	320.4	378.1	552.7	595.2	578.4	523.9	506.3
82.5°	191.5	176.2	208.3	242.7	243.5	270.0	410.9	451.0	413.3	346.9	331.6
85°	100.1	103.3	143.4	170.6	150.6	145.8	246.7	273.2	250.7	217.9	196.3
87.5°	36.0	41.7	75.3	74.5	52.9	28.0	54.5	26.4	14.4	8.8	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

(END OF REPORT)