

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: P454154

Luminaire Tested: **GALN-SA5B-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24287 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

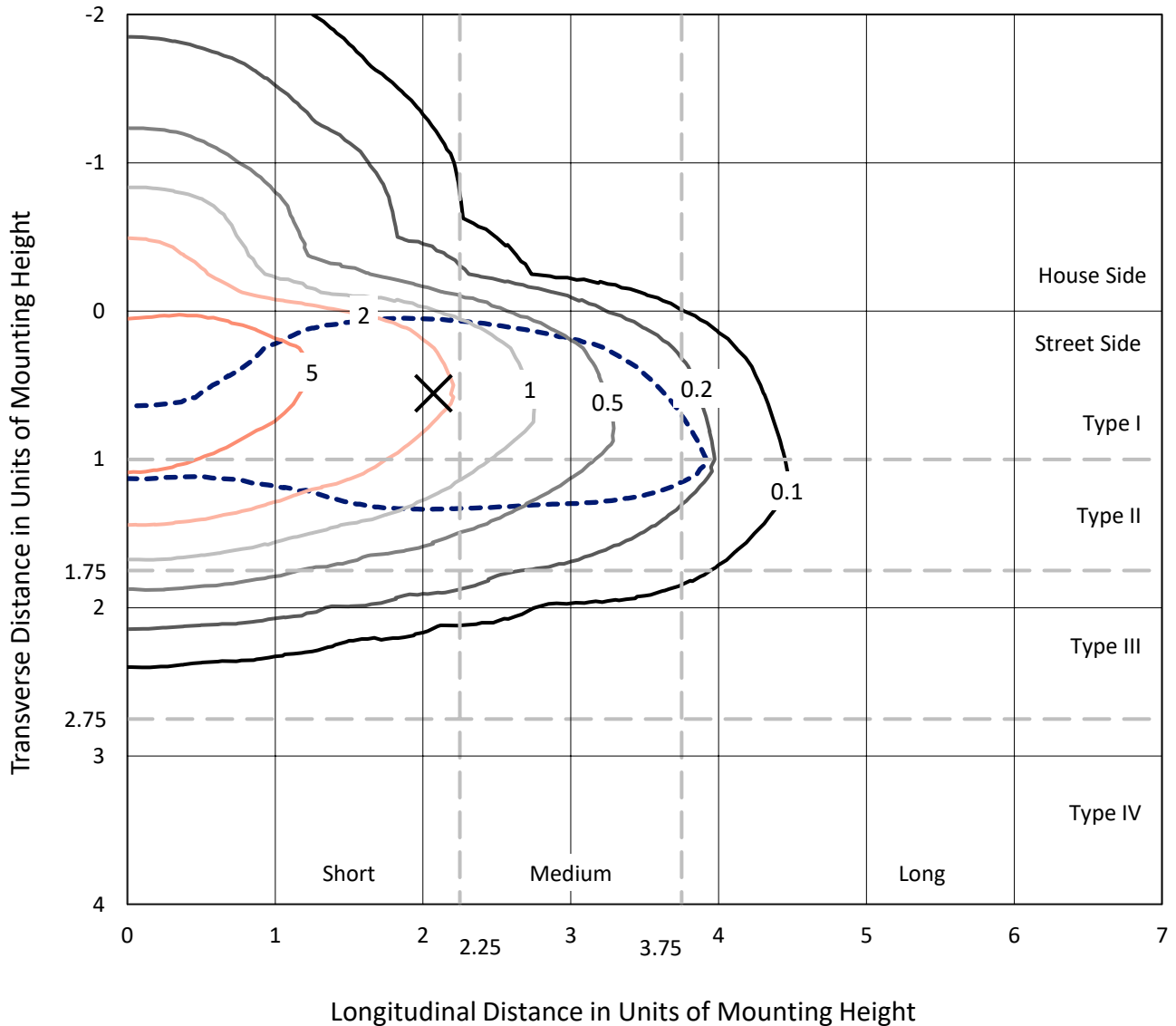
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

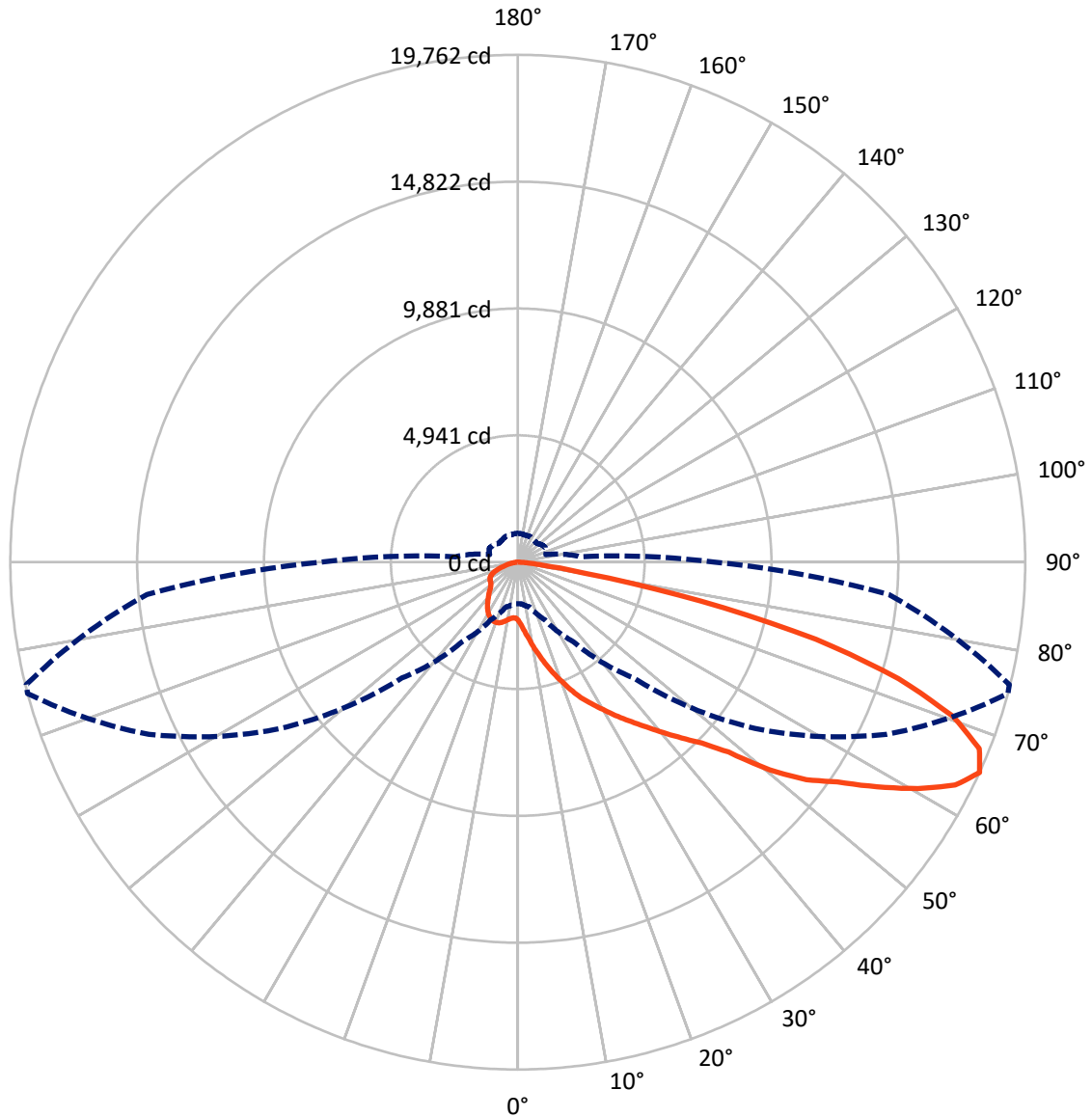
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4083.0	0.0	4083.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	20204.0	0.0	20204.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	24287.0	0.0	24287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	1.1
10°-20°	1073.9	4.4
20°-30°	2074.4	8.5
30°-40°	3369.4	13.9
40°-50°	4634.9	19.1
50°-60°	5472.2	22.5
60°-70°	4794.6	19.7
70°-80°	2289.0	9.4
80°-90°	304.6	1.3
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°	24287.0	100.0
0°-180°	24287.0	100.0

Coefficient of Utilization



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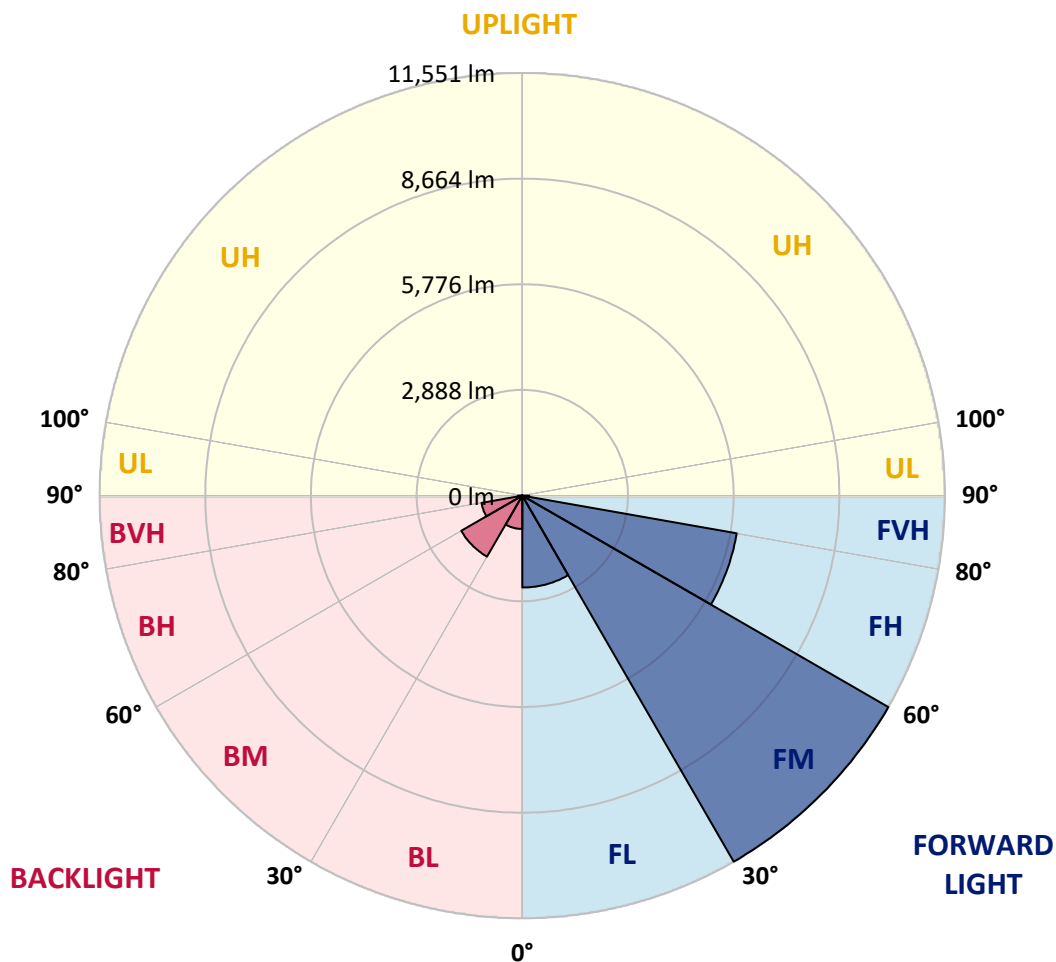
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2510.9	10.3			
FM	(30°-60°)	11551.4	47.6			
FH	(60°-80°)	5951.4	24.5			G3/7500
FVH	(80°-90°)	190.3	0.8			G2/225
BL	(0°-30°)	911.5	3.8	B2/1000		
BM	(30°-60°)	1925.1	7.9	B2/2500		
BH	(60°-60°)	1132.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	114.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6
2.5°	2998.2	2978.5	2957.4	2899.4	2837.5	2767.7	2667.6	2571.4	2443.6	2439.7	2344.8
5°	3829.4	3816.3	3722.7	3668.7	3525.1	3334.1	3172.1	2920.5	2687.3	2659.7	2475.2
7.5°	4593.5	4542.1	4506.6	4409.1	4266.8	4021.8	3708.3	3368.4	2978.5	2941.6	2636.0
10°	5169.2	5163.9	5145.5	5061.1	4954.4	4710.7	4363.0	3875.6	3347.3	3274.9	2830.9
12.5°	5599.9	5603.9	5601.2	5599.9	5523.5	5316.7	4939.9	4426.2	3720.1	3668.7	3056.2
15°	5883.2	5922.7	5938.5	6004.3	6010.9	5872.6	5548.6	4958.4	4140.3	4063.9	3298.6
17.5°	6070.2	6090.0	6163.7	6275.7	6366.6	6341.6	6053.1	5451.1	4569.8	4442.0	3550.2
20°	6249.4	6283.6	6340.3	6493.1	6653.8	6727.6	6524.7	5955.6	4995.3	4913.6	3828.1
22.5°	6622.2	6670.9	6690.7	6768.4	6905.4	7035.8	6943.6	6439.1	5461.6	5351.0	4123.2
25°	7253.2	7304.5	7249.2	7230.8	7275.6	7340.1	7320.3	6894.9	5901.6	5743.5	4402.5
27.5°	8075.2	8081.8	7973.7	7871.0	7760.3	7727.4	7666.8	7299.3	6283.6	6151.9	4683.1
30°	8957.8	8926.2	8747.0	8561.3	8374.2	8189.8	8015.9	7689.2	6709.1	6557.6	4958.4
32.5°	9777.1	9760.0	9561.1	9272.6	8956.5	8782.6	8430.8	8083.1	7164.9	7018.7	5241.6
35°	10391.0	10416.0	10197.4	9882.5	9537.4	9383.3	8939.3	8496.7	7636.5	7477.1	5549.9
37.5°	10827.1	10813.9	10620.2	10347.5	10044.6	9910.2	9533.4	8948.6	8143.7	7990.9	5887.1
40°	10982.5	10974.6	10831.0	10632.1	10439.8	10392.3	10155.2	9436.0	8724.6	8545.5	6292.8
42.5°	10883.7	10900.8	10806.0	10752.0	10716.4	10750.6	10773.0	10074.9	9358.2	9193.6	6732.8
45°	10580.7	10571.5	10558.3	10646.6	10846.8	11072.1	11384.3	10678.2	10047.2	9915.5	7323.0
47.5°	10039.3	10105.2	10138.1	10381.8	10819.1	11352.7	12087.7	11487.0	11047.0	10932.4	8222.7
50°	9281.8	9334.5	9529.5	9962.9	10615.0	11458.0	12775.4	12809.6	12714.8	12500.0	9200.2
52.5°	8098.9	8180.6	8582.3	9376.7	10196.1	11414.6	13191.6	13943.8	14069.0	13908.3	10163.1
55°	6775.0	6889.6	7313.8	8355.8	9619.1	11177.5	13478.8	14601.2	15100.4	14951.6	11090.5
57.5°	5478.7	5599.9	6036.0	7045.0	8612.6	10653.2	13667.2	15333.6	16504.7	16311.1	12244.5
60°	4106.1	4232.5	4606.7	5646.0	7179.4	9628.3	13539.4	15968.6	17907.6	17824.7	13399.8
62.5°	2649.1	2788.8	3114.1	3974.4	5518.3	8228.0	12855.7	16319.0	19122.2	19022.1	14242.9
65°	1613.7	1629.5	1808.7	2467.3	3776.8	6370.6	11292.1	15853.9	19762.4	19732.1	14499.7
67.5°	1043.3	1068.3	1150.0	1478.0	2264.5	4424.9	9028.9	14319.3	19388.3	19377.8	13968.9
70°	881.3	889.2	926.1	997.2	1316.0	2683.4	6340.3	11873.0	17966.9	17966.9	12692.4
72.5°	787.8	798.3	811.5	833.9	939.2	1520.2	3783.3	9242.3	15512.8	15615.5	10803.3
75°	715.3	712.7	720.6	724.5	800.9	993.3	1956.2	6835.6	12000.8	11795.3	7823.6
77.5°	612.6	616.5	612.6	629.7	707.4	756.1	993.3	4586.9	7272.9	7006.8	3926.9
80°	503.2	509.8	516.4	526.9	604.6	574.4	596.7	2090.6	2690.0	2633.3	1213.3
82.5°	378.1	387.3	397.8	422.9	475.6	379.4	376.8	893.1	970.9	889.2	446.6
85°	152.8	180.5	272.7	297.7	299.0	208.1	231.8	372.8	396.5	387.3	175.2
87.5°	35.6	42.2	88.3	133.0	122.5	77.7	85.6	121.2	138.3	127.8	59.3
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°	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6	2256.6
2.5°	2301.4	2255.3	2176.2	2115.6	2072.1	2033.9	2010.2	1995.7	1990.5	1989.2	1990.5
5°	2379.1	2297.4	2172.3	2093.2	2049.7	2024.7	2010.2	2008.9	2010.2	2011.5	2007.6
7.5°	2485.8	2368.5	2205.2	2131.4	2098.5	2080.0	2073.5	2070.8	2072.1	2070.8	2070.8
10°	2628.1	2467.3	2269.7	2193.3	2165.7	2144.6	2134.1	2127.5	2122.2	2116.9	2114.3
12.5°	2784.8	2576.7	2339.6	2265.8	2226.3	2193.3	2169.6	2152.5	2140.6	2128.8	2126.2
15°	2960.0	2692.6	2417.3	2314.5	2257.9	2209.1	2168.3	2140.6	2119.6	2102.4	2101.1
17.5°	3127.3	2801.9	2470.0	2336.9	2253.9	2185.4	2131.4	2093.2	2066.9	2044.5	2041.8
20°	3306.5	2906.0	2493.7	2322.4	2214.4	2131.4	2060.3	2014.2	1983.9	1958.9	1954.9
22.5°	3486.9	2994.3	2491.1	2276.3	2145.9	2048.4	1973.3	1924.6	1889.0	1864.0	1854.8
25°	3659.5	3065.4	2458.1	2202.6	2051.1	1949.6	1873.2	1828.4	1796.8	1766.5	1766.5
27.5°	3815.0	3107.6	2396.2	2113.0	1953.6	1846.9	1786.3	1745.4	1716.5	1696.7	1684.9
30°	3967.8	3127.3	2311.9	1999.7	1850.8	1759.9	1711.2	1687.5	1661.1	1638.7	1636.1
32.5°	4104.8	3123.4	2206.5	1889.0	1753.4	1688.8	1669.0	1650.6	1622.9	1591.3	1583.4
35°	4237.8	3097.0	2081.4	1767.8	1671.7	1646.6	1651.9	1625.6	1575.5	1536.0	1529.4
37.5°	4382.7	3049.6	1944.4	1669.0	1603.2	1626.9	1640.1	1582.1	1500.4	1438.5	1424.0
40°	4550.0	2995.6	1802.1	1570.2	1549.2	1608.4	1608.4	1501.7	1389.8	1351.6	1341.0
42.5°	4746.3	2950.8	1683.5	1487.3	1504.4	1563.7	1557.1	1395.0	1348.9	1329.2	1323.9
45°	5057.2	2935.0	1561.0	1414.8	1467.5	1511.0	1457.0	1358.2	1331.8	1316.0	1310.7
47.5°	5548.6	2953.4	1453.0	1360.8	1425.3	1458.3	1345.0	1333.1	1314.7	1292.3	1289.7
50°	6004.3	2936.3	1376.6	1330.5	1388.5	1395.0	1298.9	1302.8	1292.3	1267.3	1262.0
52.5°	6377.1	2882.3	1327.9	1314.7	1356.8	1284.4	1255.4	1269.9	1265.9	1234.3	1229.1
55°	6786.8	2849.4	1304.1	1314.7	1335.8	1188.2	1214.6	1235.6	1230.4	1208.0	1206.7
57.5°	7283.5	2855.9	1287.0	1318.6	1314.7	1139.5	1173.7	1198.8	1197.4	1190.9	1190.9
60°	7791.9	2858.6	1260.7	1317.3	1289.7	1101.3	1131.6	1167.1	1169.8	1173.7	1173.7
62.5°	7960.6	2744.0	1209.3	1293.6	1234.3	1064.4	1092.1	1140.8	1138.2	1148.7	1150.0
65°	7645.7	2426.5	1132.9	1239.6	1163.2	1038.0	1061.8	1106.5	1092.1	1119.7	1125.0
67.5°	6959.4	2007.6	1014.3	1142.1	1084.2	1010.4	1042.0	1059.1	1032.8	1086.8	1088.1
70°	6014.9	1567.6	864.2	1003.8	994.6	981.4	1026.2	999.8	963.0	1028.8	1015.7
72.5°	5029.5	1197.4	690.3	820.7	874.7	937.9	998.5	923.4	872.1	891.8	868.1
75°	3778.1	885.2	554.6	642.9	728.5	876.0	973.5	831.2	752.2	733.7	728.5
77.5°	1925.9	578.3	415.0	480.8	546.7	791.7	939.2	723.2	623.1	594.1	580.9
80°	687.6	359.6	292.4	332.0	368.8	681.1	820.7	598.1	483.5	478.2	483.5
82.5°	318.8	231.8	196.3	217.4	218.7	454.5	625.7	446.6	367.5	558.5	471.6
85°	137.0	115.9	110.7	108.0	100.1	202.9	351.7	239.8	374.1	167.3	154.1
87.5°	40.8	46.1	40.8	30.3	22.4	22.4	35.6	13.2	9.2	6.6	6.6
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)