

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: P453429

Luminaire Tested: **GALN-SA4C-722-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453429
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-SA4C-722-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20836 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

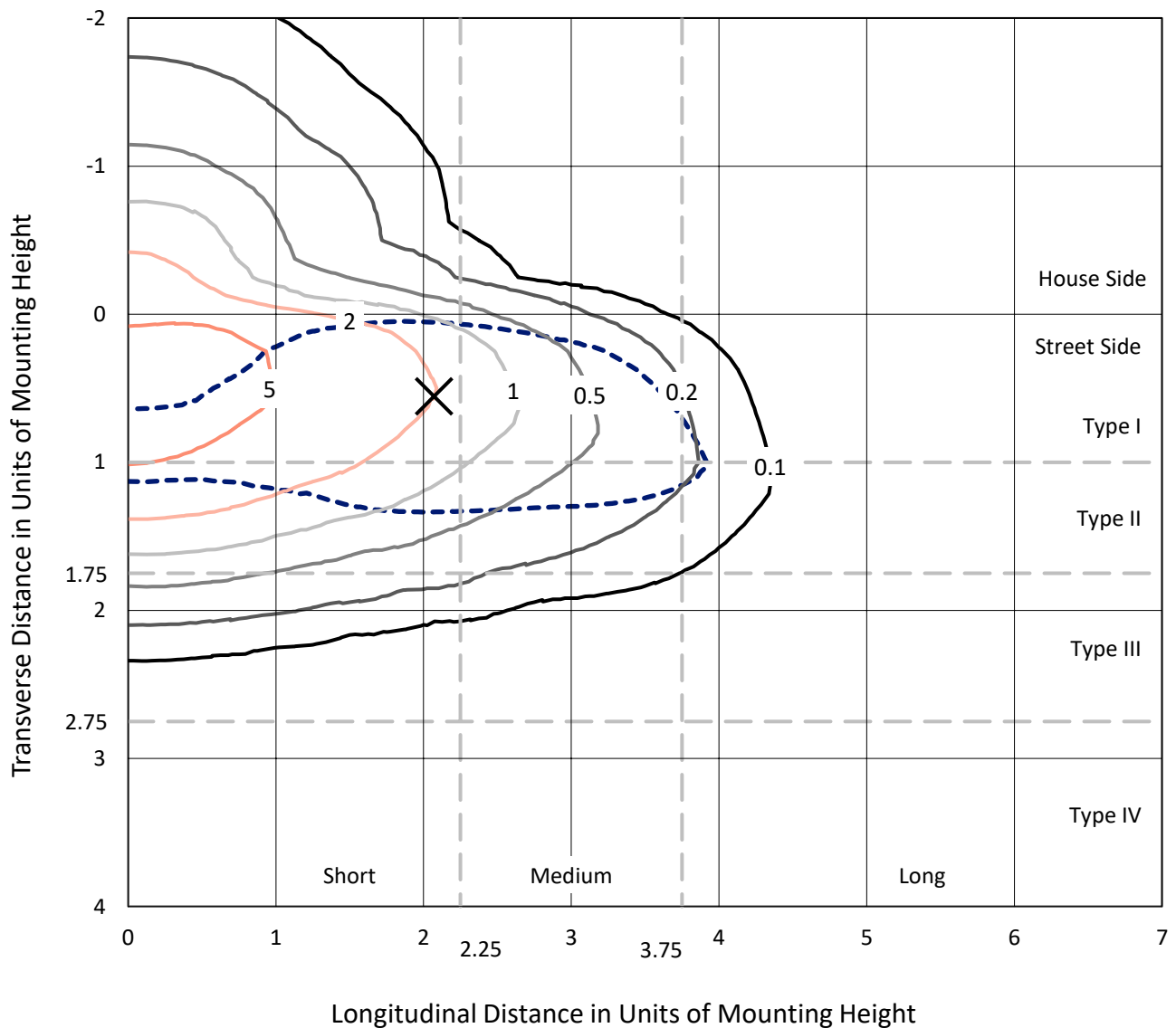
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453429
 CATALOG NUMBER: GALN-SA4C-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

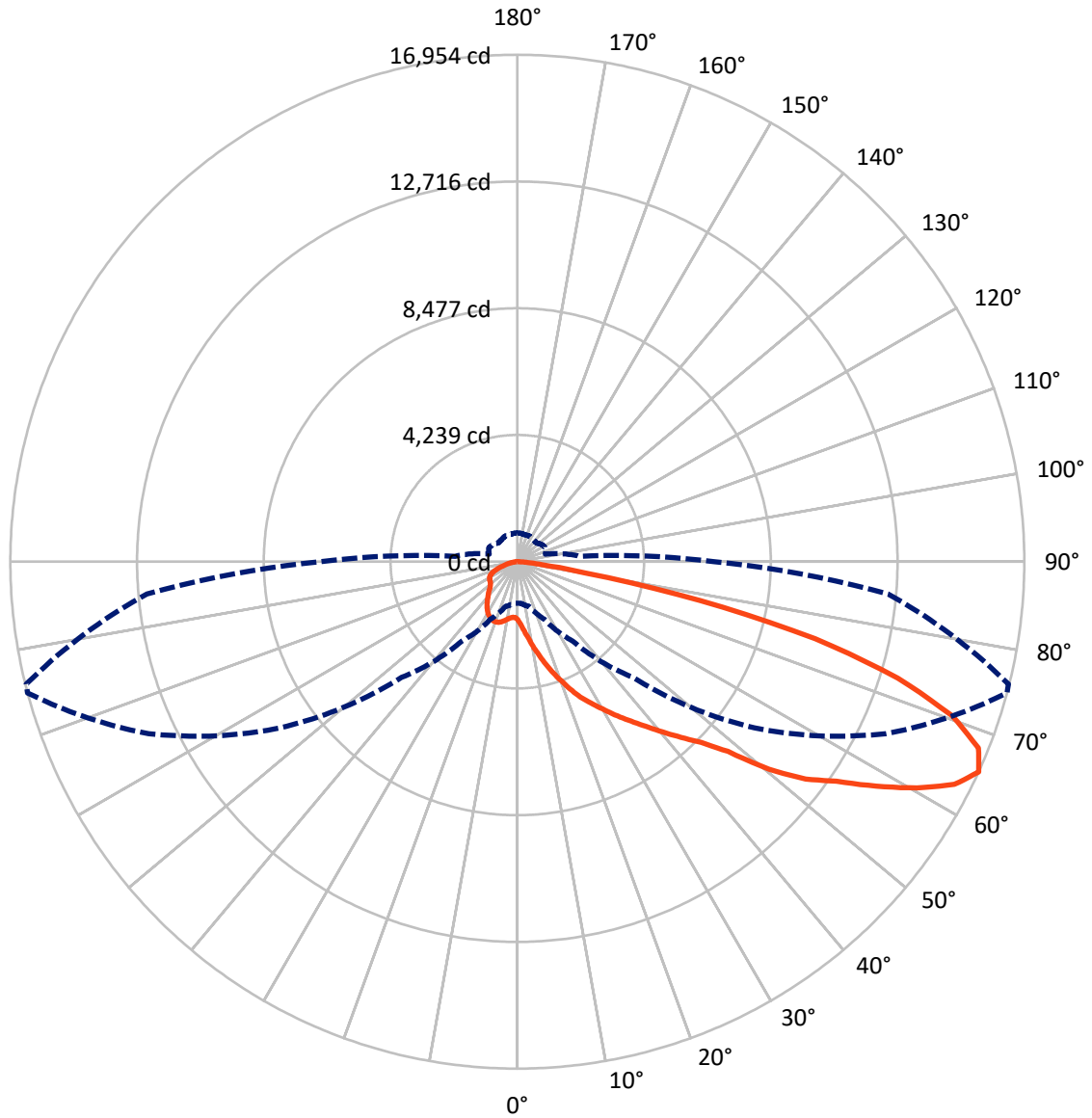
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

REPORT NUMBER: P453429
CATALOG NUMBER: GALN-SA4C-722-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453429

CATALOG NUMBER: GALN-SA4C-722-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3502.8	0.0	3502.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	17333.2	0.0	17333.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	20836.0	0.0	20836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	1.1
10°-20°	921.3	4.4
20°-30°	1779.6	8.5
30°-40°	2890.6	13.9
40°-50°	3976.3	19.1
50°-60°	4694.7	22.5
60°-70°	4113.3	19.7
70°-80°	1963.7	9.4
80°-90°	261.3	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°	20836.0	100.0
0°-180°	20836.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453429

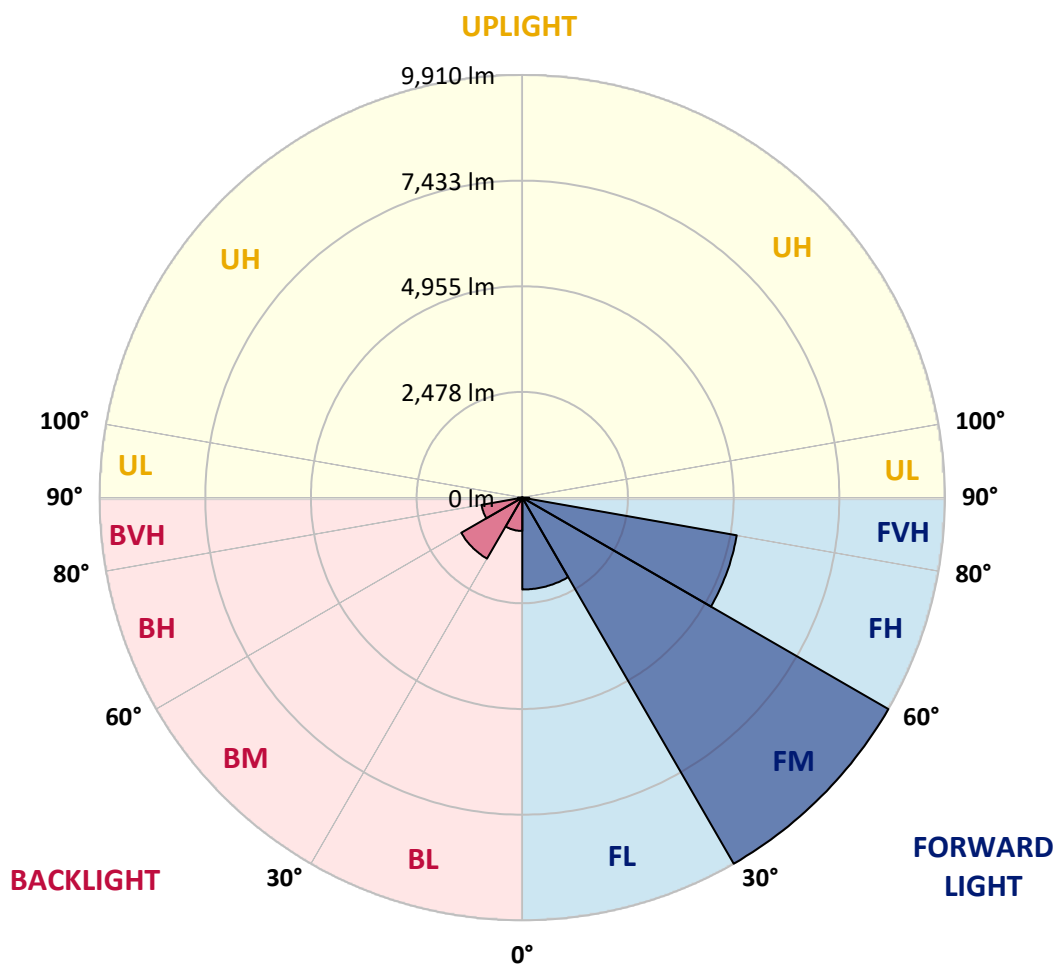
CATALOG NUMBER: GALN-SA4C-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2154.1	10.3			
FM	(30°-60°)	9910.0	47.6			
FH	(60°-80°)	5105.8	24.5			G3/7500
FVH	(80°-90°)	163.3	0.8			G2/225
BL	(0°-30°)	782.0	3.8	B2/1000		
BM	(30°-60°)	1651.5	7.9	B2/2500		
BH	(60°-80°)	971.3	4.7	B2/1000		G2/1000
BVH	(80°-90°)	98.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





REPORT NUMBER: P453429

CATALOG NUMBER: GALN-SA4C-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9
2.5°	2572.2	2555.2	2537.2	2487.4	2434.3	2374.4	2288.5	2206.0	2096.4	2093.0	2011.6
5°	3285.3	3274.0	3193.8	3147.4	3024.3	2860.4	2721.4	2505.5	2305.5	2281.7	2123.5
7.5°	3940.8	3896.7	3866.2	3782.6	3660.5	3450.3	3181.3	2889.8	2555.2	2523.6	2261.4
10°	4434.7	4430.1	4414.3	4342.0	4250.5	4041.4	3743.0	3324.9	2871.7	2809.5	2428.7
12.5°	4804.2	4807.6	4805.3	4804.2	4738.7	4561.2	4238.0	3797.3	3191.5	3147.4	2621.9
15°	5047.2	5081.1	5094.7	5151.2	5156.8	5038.2	4760.1	4253.8	3552.0	3486.5	2829.9
17.5°	5207.7	5224.6	5287.9	5384.0	5462.0	5440.5	5193.0	4676.5	3920.5	3810.8	3045.7
20°	5361.4	5390.8	5439.4	5570.5	5708.3	5771.6	5597.6	5109.4	4285.5	4215.4	3284.2
22.5°	5681.2	5723.0	5740.0	5806.7	5924.2	6036.1	5957.0	5524.1	4685.6	4590.6	3537.3
25°	6222.5	6266.6	6219.2	6203.3	6241.8	6297.1	6280.2	5915.1	5063.0	4927.4	3776.9
27.5°	6927.8	6933.4	6840.7	6752.6	6657.6	6629.4	6577.4	6262.1	5390.8	5277.7	4017.6
30°	7684.9	7657.8	7504.1	7344.8	7184.3	7026.1	6876.9	6596.6	5755.8	5625.8	4253.8
32.5°	8387.9	8373.2	8202.5	7955.0	7683.8	7534.6	7232.9	6934.5	6146.8	6021.4	4496.8
35°	8914.5	8936.0	8748.4	8478.3	8182.2	8050.0	7669.1	7289.4	6551.4	6414.7	4761.3
37.5°	9288.6	9277.3	9111.2	8877.2	8617.3	8502.0	8178.8	7677.0	6986.5	6855.4	5050.6
40°	9422.0	9415.2	9292.0	9121.3	8956.3	8915.7	8712.2	8095.2	7484.9	7331.2	5398.7
42.5°	9337.2	9351.9	9270.5	9224.2	9193.7	9223.1	9242.3	8643.3	8028.5	7887.2	5776.1
45°	9077.3	9069.4	9058.1	9133.8	9305.6	9498.8	9766.7	9160.9	8619.6	8506.6	6282.4
47.5°	8612.8	8669.3	8697.5	8906.6	9281.8	9739.5	10370.2	9854.8	9477.3	9379.0	7054.3
50°	7963.0	8008.2	8175.4	8547.2	9106.7	9829.9	10960.1	10989.5	10908.1	10723.9	7892.9
52.5°	6948.1	7018.2	7362.9	8044.3	8747.3	9792.7	11317.2	11962.5	12069.9	11932.0	8719.0
55°	5812.3	5910.6	6274.5	7168.5	8252.3	9589.2	11563.6	12526.5	12954.8	12827.1	9514.6
57.5°	4700.2	4804.2	5178.3	6044.0	7388.8	9139.4	11725.2	13154.8	14159.5	13993.4	10504.6
60°	3522.6	3631.1	3952.1	4843.8	6159.3	8260.2	11615.6	13699.5	15363.1	15291.9	11495.8
62.5°	2272.7	2392.5	2671.6	3409.6	4734.2	7058.8	11029.0	14000.2	16405.1	16319.2	12219.1
65°	1384.4	1398.0	1551.7	2116.7	3240.1	5465.4	9687.5	13601.2	16954.3	16928.3	12439.4
67.5°	895.1	916.5	986.6	1268.0	1942.7	3796.1	7746.0	12284.6	16633.4	16624.3	11984.0
70°	756.1	762.8	794.5	855.5	1129.0	2302.1	5439.4	10185.9	15414.0	15414.0	10888.9
72.5°	675.8	684.9	696.2	715.4	805.8	1304.2	3245.8	7929.1	13308.5	13396.7	9268.3
75°	613.7	611.4	618.2	621.6	687.1	852.1	1678.3	5864.3	10295.6	10119.3	6711.9
77.5°	525.5	528.9	525.5	540.2	606.9	648.7	852.1	3935.1	6239.5	6011.2	3368.9
80°	431.7	437.4	443.0	452.1	518.7	492.7	512.0	1793.5	2307.7	2259.1	1040.9
82.5°	324.3	332.3	341.3	362.8	408.0	325.5	323.2	766.2	832.9	762.8	383.1
85°	131.1	154.8	233.9	255.4	256.5	178.6	198.9	319.8	340.2	332.3	150.3
87.5°	30.5	36.2	75.7	114.1	105.1	66.7	73.5	104.0	118.7	109.6	50.9
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: P453429
 CATALOG NUMBER: GALN-SA4C-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9	1935.9
2.5°	1974.4	1934.8	1867.0	1815.0	1777.7	1744.9	1724.6	1712.2	1707.6	1706.5	1707.6
5°	2041.0	1971.0	1863.6	1795.8	1758.5	1737.0	1724.6	1723.5	1724.6	1725.7	1722.3
7.5°	2132.6	2032.0	1891.9	1828.6	1800.3	1784.5	1778.8	1776.6	1777.7	1776.6	1776.6
10°	2254.6	2116.7	1947.2	1881.7	1857.9	1839.9	1830.8	1825.2	1820.7	1816.1	1813.9
12.5°	2389.1	2210.6	2007.1	1943.8	1909.9	1881.7	1861.3	1846.6	1836.5	1826.3	1824.0
15°	2539.4	2310.0	2073.8	1985.7	1937.1	1895.2	1860.2	1836.5	1818.4	1803.7	1802.6
17.5°	2682.9	2403.8	2119.0	2004.9	1933.7	1874.9	1828.6	1795.8	1773.2	1754.0	1751.7
20°	2836.6	2493.1	2139.4	1992.4	1899.8	1828.6	1767.5	1728.0	1702.0	1680.5	1677.1
22.5°	2991.5	2568.8	2137.1	1952.9	1841.0	1757.4	1692.9	1651.1	1620.6	1599.1	1591.2
25°	3139.5	2629.8	2108.8	1889.6	1759.6	1672.6	1607.1	1568.6	1541.5	1515.5	1515.5
27.5°	3272.9	2666.0	2055.7	1812.7	1676.0	1584.5	1532.5	1497.4	1472.6	1455.6	1445.4
30°	3404.0	2682.9	1983.4	1715.6	1587.8	1509.9	1468.1	1447.7	1425.1	1405.9	1403.6
32.5°	3521.5	2679.6	1893.0	1620.6	1504.2	1448.8	1431.9	1416.1	1392.3	1365.2	1358.4
35°	3635.7	2657.0	1785.6	1516.6	1434.1	1412.7	1417.2	1394.6	1351.6	1317.7	1312.1
37.5°	3760.0	2616.3	1668.1	1431.9	1375.4	1395.7	1407.0	1357.3	1287.2	1234.1	1221.7
40°	3903.5	2569.9	1546.0	1347.1	1329.0	1379.9	1379.9	1288.4	1192.3	1159.5	1150.5
42.5°	4071.9	2531.5	1444.3	1275.9	1290.6	1341.5	1335.8	1196.8	1157.3	1140.3	1135.8
45°	4338.6	2517.9	1339.2	1213.8	1259.0	1296.3	1249.9	1165.2	1142.6	1129.0	1124.5
47.5°	4760.1	2533.8	1246.5	1167.4	1222.8	1251.1	1153.9	1143.7	1127.9	1108.7	1106.4
50°	5151.2	2519.1	1181.0	1141.4	1191.2	1196.8	1114.3	1117.7	1108.7	1087.2	1082.7
52.5°	5471.0	2472.7	1139.2	1127.9	1164.0	1101.9	1077.0	1089.5	1086.1	1058.9	1054.4
55°	5822.5	2444.5	1118.8	1127.9	1146.0	1019.4	1042.0	1060.1	1055.5	1036.3	1035.2
57.5°	6248.5	2450.1	1104.1	1131.3	1127.9	977.6	1007.0	1028.4	1027.3	1021.6	1021.6
60°	6684.8	2452.4	1081.5	1130.1	1106.4	944.8	970.8	1001.3	1003.6	1007.0	1007.0
62.5°	6829.4	2354.1	1037.5	1109.8	1058.9	913.2	936.9	978.7	976.4	985.5	986.6
65°	6559.3	2081.7	971.9	1063.5	997.9	890.5	910.9	949.3	936.9	960.6	965.1
67.5°	5970.5	1722.3	870.2	979.8	930.1	866.8	893.9	908.6	886.0	932.4	933.5
70°	5160.2	1344.9	741.4	861.2	853.3	842.0	880.4	857.8	826.1	882.6	871.3
72.5°	4314.9	1027.3	592.2	704.1	750.4	804.7	856.6	792.2	748.2	765.1	744.8
75°	3241.2	759.5	475.8	551.5	625.0	751.5	835.2	713.1	645.3	629.5	625.0
77.5°	1652.3	496.1	356.0	412.5	469.0	679.2	805.8	620.4	534.6	509.7	498.4
80°	589.9	308.5	250.9	284.8	316.4	584.3	704.1	513.1	414.8	410.2	414.8
82.5°	273.5	198.9	168.4	186.5	187.6	389.9	536.8	383.1	315.3	479.2	404.6
85°	117.5	99.5	94.9	92.7	85.9	174.0	301.7	205.7	321.0	143.5	132.2
87.5°	35.0	39.6	35.0	26.0	19.2	19.2	30.5	11.3	7.9	5.7	5.7
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)