

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: P457634

Luminaire Tested: **GALN-SA9A-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457634
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-SA9A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35335 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

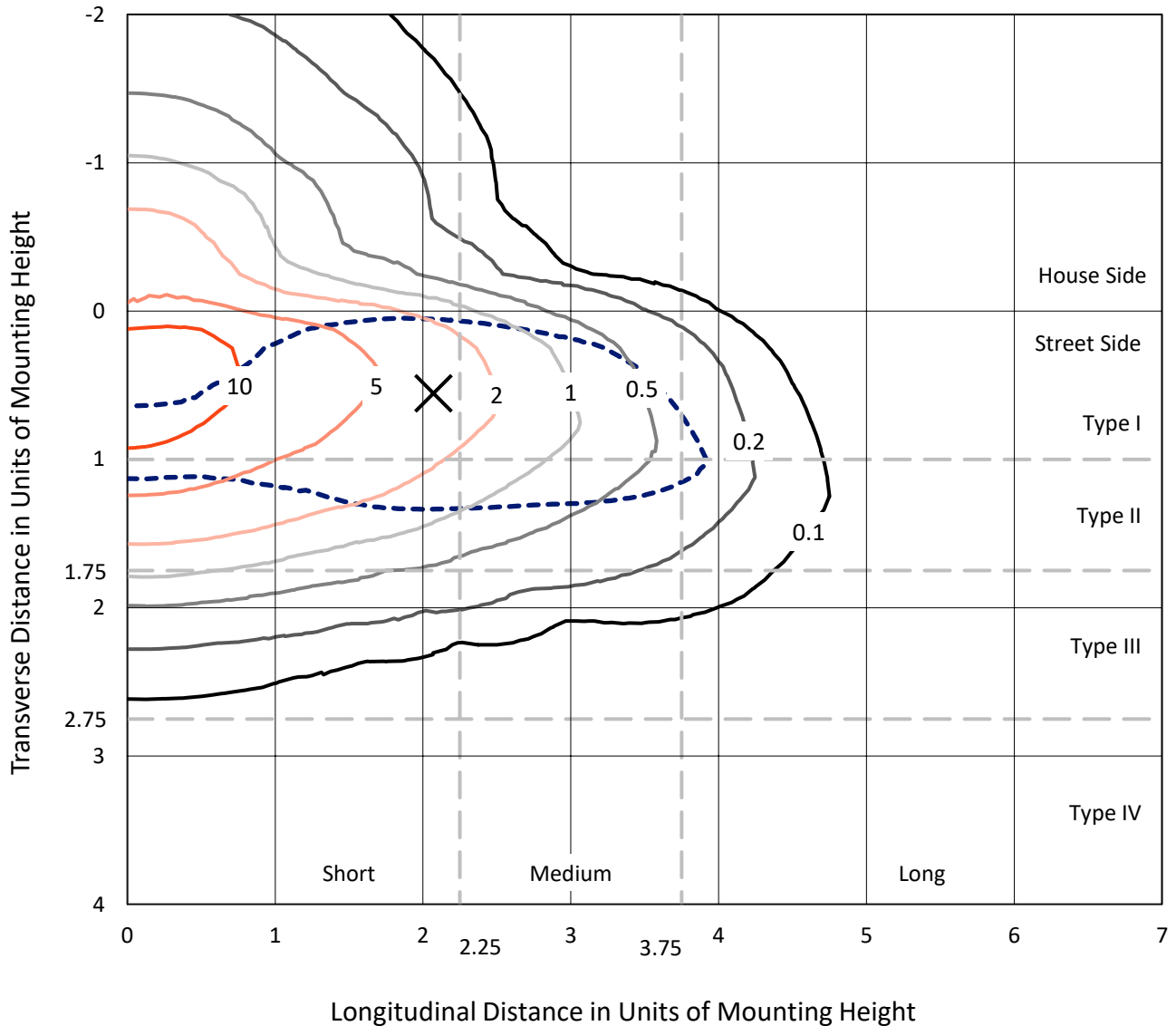
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457634
 CATALOG NUMBER: GALN-SA9A-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

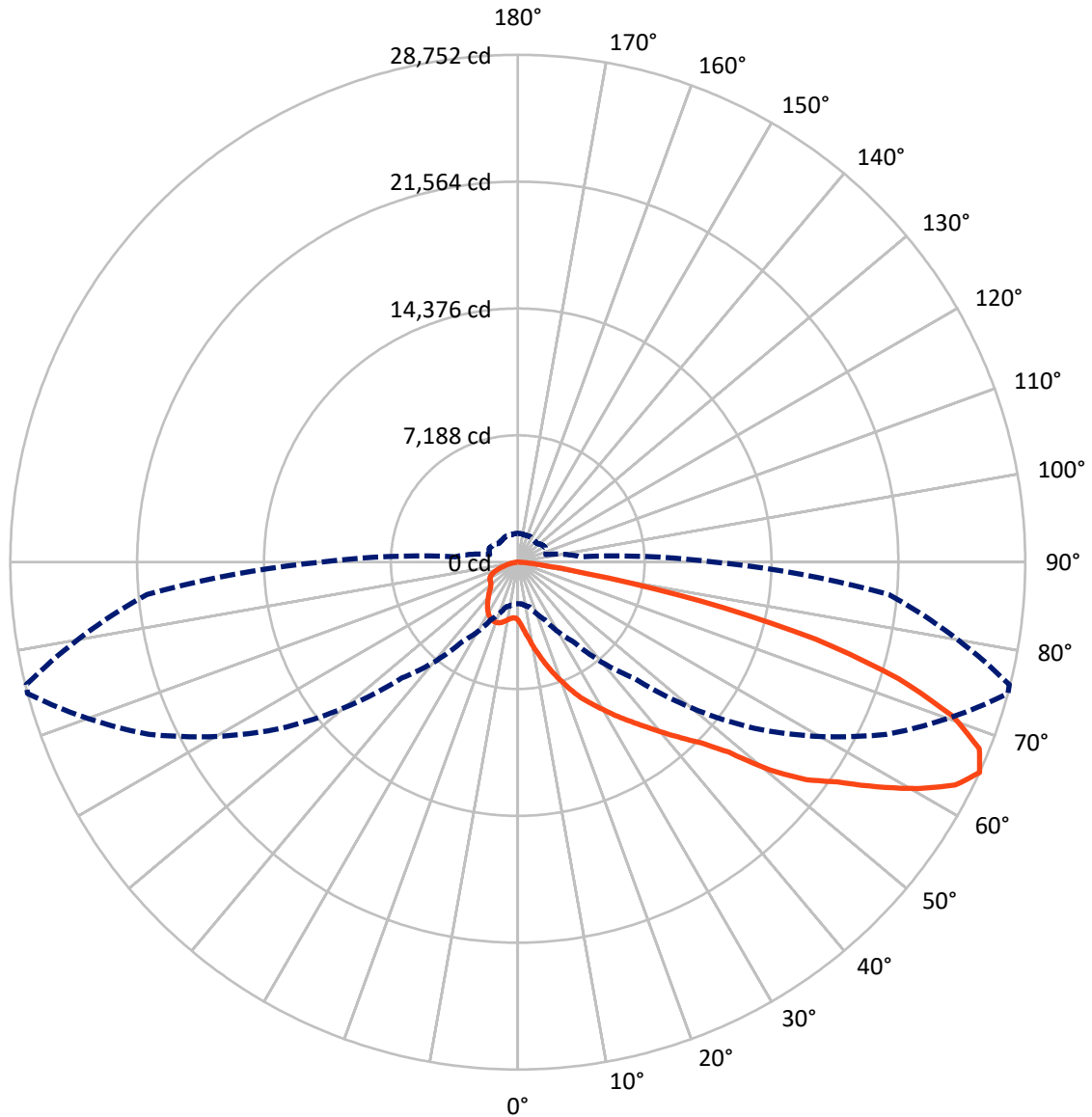
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

REPORT NUMBER: P457634
CATALOG NUMBER: GALN-SA9A-727-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457634

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5940.3	0.0	5940.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	29394.7	0.0	29394.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	35335.0	0.0	35335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.9	1.1
10°-20°	1562.4	4.4
20°-30°	3018.0	8.5
30°-40°	4902.1	13.9
40°-50°	6743.3	19.1
50°-60°	7961.5	22.5
60°-70°	6975.6	19.7
70°-80°	3330.2	9.4
80°-90°	443.1	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°	35335.0	100.0
0°-180°	35335.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457634

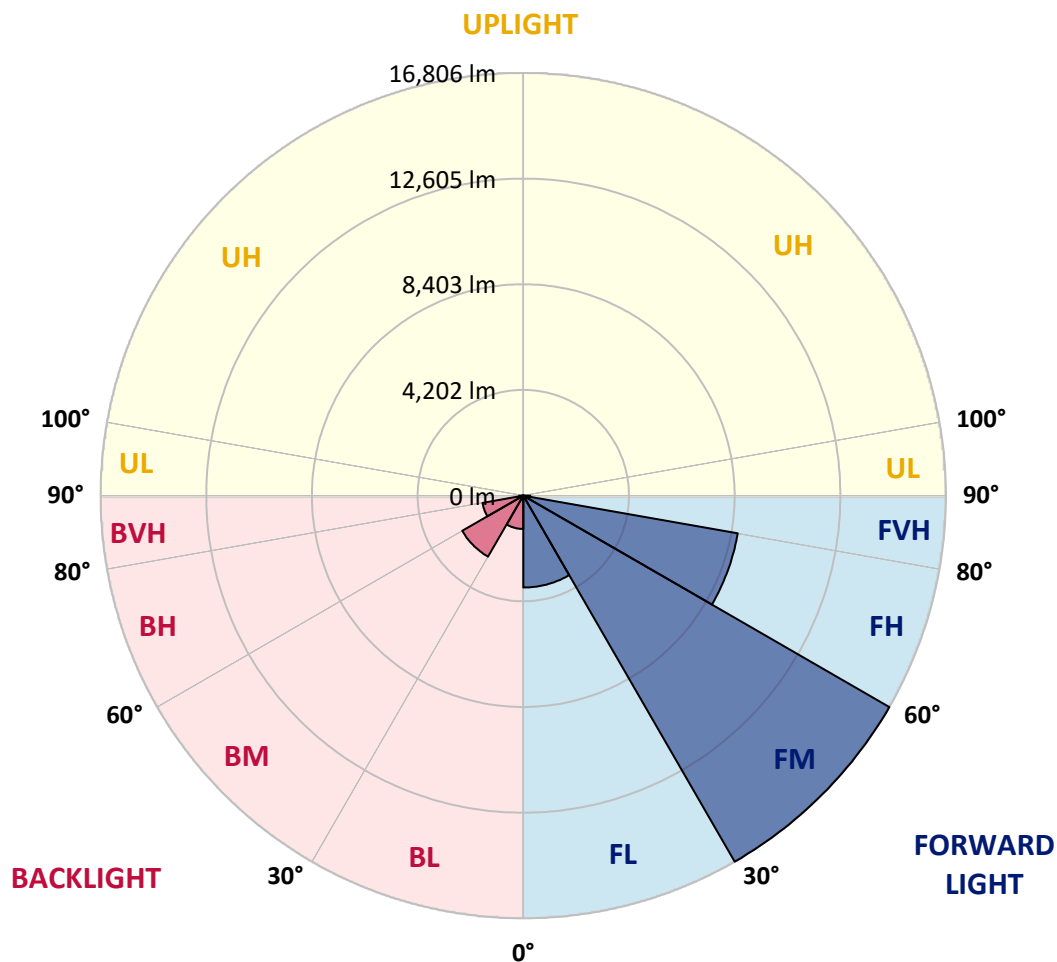
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3653.1	10.3			
FM	(30°-60°)	16806.1	47.6			
FH	(60°-80°)	8658.7	24.5			G4/12000
FVH	(80°-90°)	276.9	0.8			G3/500
BL	(0°-30°)	1326.1	3.8	B3/2500		
BM	(30°-60°)	2800.8	7.9	B3/5000		
BH	(60°-80°)	1647.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	166.2	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-G4

Type II Short





REPORT NUMBER: P457634

CATALOG NUMBER: GALN-SA9A-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1
2.5°	4362.1	4333.3	4302.7	4218.3	4128.3	4026.7	3881.0	3741.1	3555.2	3549.5	3411.5
5°	5571.4	5552.3	5416.2	5337.6	5128.7	4850.8	4615.1	4249.0	3909.8	3869.5	3601.2
7.5°	6683.0	6608.3	6556.6	6414.7	6207.7	5851.3	5395.1	4900.6	4333.3	4279.7	3835.0
10°	7520.6	7512.9	7486.1	7363.4	7208.2	6853.6	6347.6	5638.5	4870.0	4764.6	4118.7
12.5°	8147.3	8153.0	8149.2	8147.3	8036.1	7735.2	7187.1	6439.6	5412.4	5337.6	4446.4
15°	8559.4	8616.9	8639.9	8735.7	8745.3	8544.0	8072.6	7213.9	6023.7	5912.6	4799.1
17.5°	8831.5	8860.3	8967.6	9130.5	9262.7	9226.3	8806.6	7930.7	6648.5	6462.6	5165.1
20°	9092.2	9142.0	9224.4	9446.7	9680.5	9787.9	9492.7	8664.8	7267.6	7148.8	5569.5
22.5°	9634.5	9705.5	9734.2	9847.3	10046.6	10236.3	10102.2	9368.1	7946.1	7785.1	5998.8
25°	10552.6	10627.3	10546.8	10520.0	10585.2	10679.1	10650.3	10031.3	8586.2	8356.2	6405.1
27.5°	11748.5	11758.1	11600.9	11451.4	11290.5	11242.5	11154.4	10619.7	9142.0	8950.3	6813.4
30°	13032.6	12986.6	12726.0	12455.7	12183.6	11915.3	11662.3	11187.0	9761.0	9540.6	7213.9
32.5°	14224.7	14199.8	13910.4	13490.7	13030.7	12777.7	12266.0	11760.0	10424.2	10211.4	7626.0
35°	15117.8	15154.2	14836.1	14378.0	13875.9	13651.7	13005.8	12361.8	11110.3	10878.4	8074.5
37.5°	15752.2	15733.0	15451.3	15054.6	14613.8	14418.3	13870.1	13019.2	11848.2	11625.9	8565.1
40°	15978.4	15966.9	15758.0	15468.6	15188.7	15119.7	14774.8	13728.3	12693.4	12432.7	9155.4
42.5°	15834.6	15859.5	15721.5	15643.0	15591.2	15641.0	15673.6	14657.9	13615.2	13375.7	9795.5
45°	15393.8	15380.4	15361.2	15489.6	15781.0	16108.7	16562.9	15535.6	14617.6	14425.9	10654.2
47.5°	14606.1	14701.9	14749.8	15104.4	15740.7	16516.9	17586.4	16712.4	16072.3	15905.5	11963.2
50°	13504.1	13580.7	13864.4	14494.9	15443.6	16670.2	18586.8	18636.6	18498.6	18186.2	13385.3
52.5°	11783.0	11901.8	12486.4	13642.1	14834.2	16607.0	19192.4	20286.8	20468.9	20235.0	14786.3
55°	9856.9	10023.6	10640.7	12156.7	13994.7	16262.0	19610.2	21243.2	21969.5	21753.0	16135.5
57.5°	7971.0	8147.3	8781.7	10249.8	12530.5	15499.2	19884.3	22308.8	24012.6	23730.8	17814.4
60°	5973.9	6157.9	6702.2	8214.4	10445.3	14008.1	19698.4	23232.5	26053.7	25933.0	19495.3
62.5°	3854.2	4057.4	4530.7	5782.3	8028.5	11970.8	18703.7	23742.3	27820.8	27675.1	20721.8
65°	2347.8	2370.8	2631.4	3589.7	5494.8	9268.5	16428.8	23065.8	28752.2	28708.2	21095.6
67.5°	1517.9	1554.3	1673.2	2150.4	3294.6	6437.7	13136.1	20833.0	28207.9	28192.6	20323.2
70°	1282.2	1293.7	1347.3	1450.8	1914.6	3904.0	9224.4	17274.0	26140.0	26140.0	18466.1
72.5°	1146.1	1161.4	1180.6	1213.2	1366.5	2211.7	5504.4	13446.6	22569.4	22718.9	15717.7
75°	1040.7	1036.9	1048.4	1054.1	1165.3	1445.1	2846.1	9945.0	17459.9	17160.9	11382.5
77.5°	891.2	897.0	891.2	916.1	1029.2	1100.1	1445.1	6673.5	10581.3	10194.2	5713.3
80°	732.1	741.7	751.3	766.6	879.7	835.6	868.2	3041.6	3913.6	3831.2	1765.2
82.5°	550.1	563.5	578.8	615.2	691.9	552.0	548.1	1299.4	1412.5	1293.7	649.7
85°	222.3	262.6	396.7	433.1	435.1	302.8	337.3	542.4	576.9	563.5	254.9
87.5°	51.7	61.3	128.4	193.6	178.2	113.1	124.6	176.3	201.2	185.9	86.2
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°	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1	3283.1
2.5°	3348.2	3281.2	3166.2	3078.0	3014.7	2959.2	2924.7	2903.6	2895.9	2894.0	2895.9
5°	3461.3	3342.5	3160.4	3045.4	2982.2	2945.8	2924.7	2922.8	2924.7	2926.6	2920.8
7.5°	3616.5	3446.0	3208.3	3101.0	3053.1	3026.2	3016.7	3012.8	3014.7	3012.8	3012.8
10°	3823.5	3589.7	3302.2	3191.1	3150.8	3120.2	3104.8	3095.2	3087.6	3079.9	3076.1
12.5°	4051.6	3748.8	3403.8	3296.5	3239.0	3191.1	3156.6	3131.7	3114.4	3097.2	3093.3
15°	4306.5	3917.4	3516.9	3367.4	3285.0	3214.1	3154.7	3114.4	3083.7	3058.8	3056.9
17.5°	4549.9	4076.5	3593.6	3400.0	3279.2	3179.6	3101.0	3045.4	3007.1	2974.5	2970.7
20°	4810.6	4227.9	3628.0	3378.9	3221.7	3101.0	2997.5	2930.4	2886.3	2849.9	2844.2
22.5°	5073.1	4356.3	3624.2	3311.8	3122.1	2980.3	2871.0	2800.1	2748.3	2711.9	2698.5
25°	5324.2	4459.8	3576.3	3204.5	2984.1	2836.5	2725.3	2660.2	2614.2	2570.1	2570.1
27.5°	5550.4	4521.2	3486.2	3074.2	2842.3	2687.0	2598.9	2539.4	2497.3	2468.5	2451.3
30°	5772.7	4549.9	3363.6	2909.3	2692.8	2560.5	2489.6	2455.1	2416.8	2384.2	2380.4
32.5°	5972.0	4544.2	3210.2	2748.3	2550.9	2457.0	2428.3	2401.5	2361.2	2315.2	2303.7
35°	6165.6	4505.8	3028.2	2572.0	2432.1	2395.7	2403.4	2365.0	2292.2	2234.7	2225.1
37.5°	6376.4	4436.8	2828.8	2428.3	2332.5	2367.0	2386.1	2301.8	2183.0	2092.9	2071.8
40°	6619.8	4358.3	2621.9	2284.5	2253.9	2340.1	2340.1	2184.9	2022.0	1966.4	1951.1
42.5°	6905.4	4293.1	2449.4	2163.8	2188.7	2275.0	2265.4	2029.6	1962.6	1933.8	1926.1
45°	7357.7	4270.1	2271.1	2058.4	2135.0	2198.3	2119.7	1976.0	1937.6	1914.6	1907.0
47.5°	8072.6	4296.9	2114.0	1979.8	2073.7	2121.6	1956.8	1939.6	1912.7	1880.1	1876.3
50°	8735.7	4272.0	2002.8	1935.7	2020.1	2029.6	1889.7	1895.5	1880.1	1843.7	1836.1
52.5°	9278.1	4193.4	1931.9	1912.7	1974.1	1868.6	1826.5	1847.6	1841.8	1795.8	1788.2
55°	9874.1	4145.5	1897.4	1912.7	1943.4	1728.7	1767.1	1797.7	1790.1	1757.5	1755.6
57.5°	10596.7	4155.1	1872.5	1918.5	1912.7	1657.8	1707.7	1744.1	1742.2	1732.6	1732.6
60°	11336.5	4158.9	1834.1	1916.6	1876.3	1602.2	1646.3	1698.1	1701.9	1707.7	1707.7
62.5°	11581.8	3992.2	1759.4	1882.1	1795.8	1548.6	1588.8	1659.7	1655.9	1671.2	1673.2
65°	11123.7	3530.3	1648.2	1803.5	1692.3	1510.2	1544.7	1609.9	1588.8	1629.1	1636.7
67.5°	10125.2	2920.8	1475.8	1661.7	1577.3	1470.0	1516.0	1540.9	1502.6	1581.2	1583.1
70°	8751.0	2280.7	1257.3	1460.4	1447.0	1427.8	1493.0	1454.7	1401.0	1496.8	1477.7
72.5°	7317.4	1742.2	1004.3	1194.0	1272.6	1364.6	1452.8	1343.5	1268.8	1297.5	1263.0
75°	5496.7	1287.9	806.9	935.3	1059.9	1274.5	1416.3	1209.3	1094.4	1067.5	1059.9
77.5°	2802.0	841.4	603.7	699.5	795.4	1151.9	1366.5	1052.2	906.5	864.4	845.2
80°	1000.4	523.2	425.5	483.0	536.6	990.9	1194.0	870.1	703.4	695.7	703.4
82.5°	463.8	337.3	285.6	316.2	318.1	661.2	910.4	649.7	534.7	812.6	686.1
85°	199.3	168.7	161.0	157.2	145.7	295.2	511.7	348.8	544.3	243.4	224.2
87.5°	59.4	67.1	59.4	44.1	32.6	32.6	51.7	19.2	13.4	9.6	9.6
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)