

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: P455550

Luminaire Tested: **GALN-SA6D-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39260 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

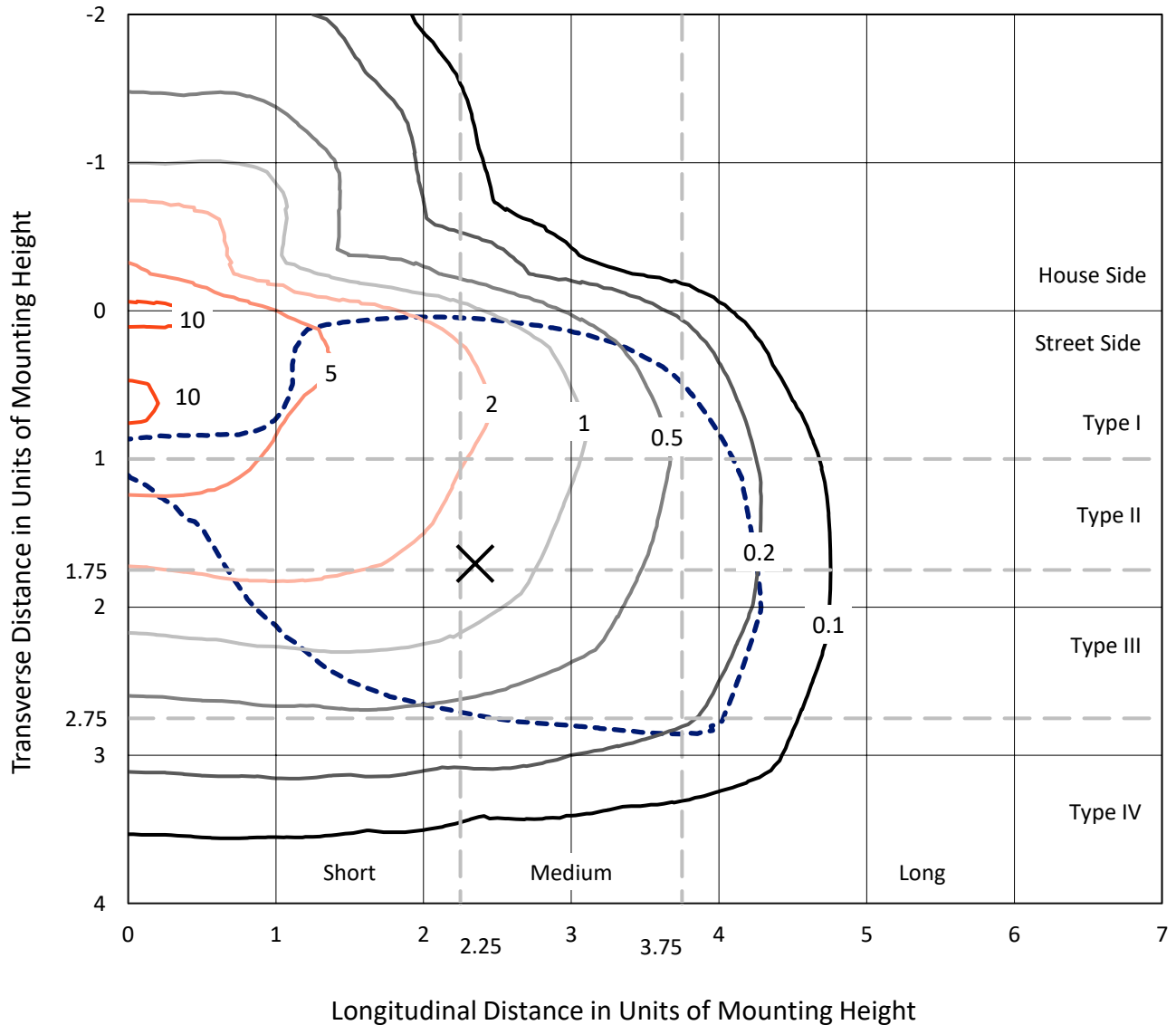
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

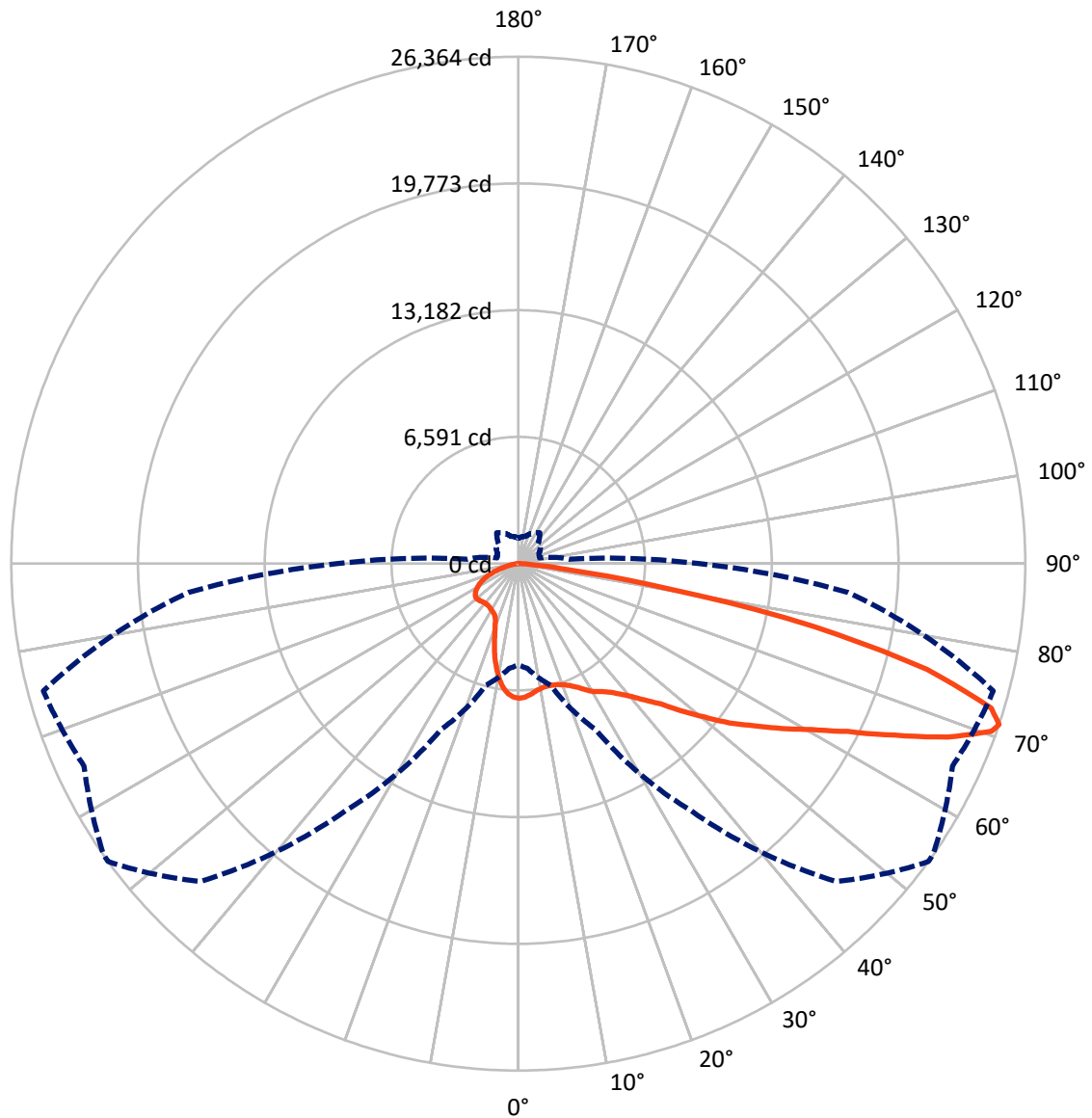
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7088.1	0.0	7088.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	32171.9	0.0	32171.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	39260.0	0.0	39260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.2	1.6
10°-20°	1648.2	4.2
20°-30°	2744.4	7.0
30°-40°	4058.0	10.3
40°-50°	5715.9	14.6
50°-60°	7653.8	19.5
60°-70°	9647.1	24.6
70°-80°	6588.9	16.8
80°-90°	579.4	1.5
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°	39260.0	100.0
0°-180°	39260.0	100.0

Coefficient of Utilization



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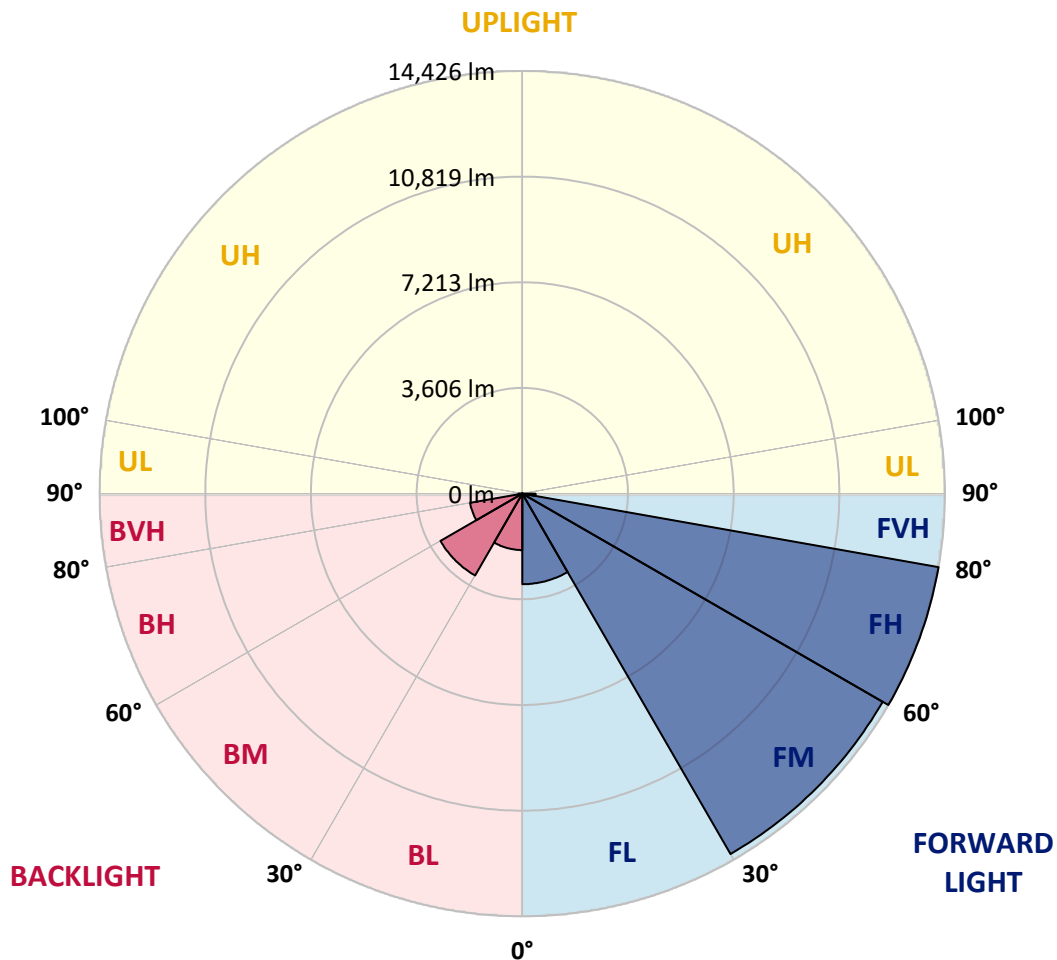
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3090.4	7.9			
FM (30°-60°)	14202.9	36.2			
FH (60°-80°)	14425.7	36.7			G5
FVH (80°-90°)	452.9	1.2			G3/500
BL (0°-30°)	1926.4	4.9	B3/2500		
BM (30°-60°)	3224.9	8.2	B3/5000		
BH (60°-80°)	1810.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	126.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6
2.5°	6767.1	6798.9	6807.3	6828.5	6873.1	6909.1	6945.2	6940.9	6991.8	7013.0	7032.1
5°	6465.9	6474.4	6506.2	6548.6	6627.1	6726.8	6824.3	6826.4	6951.5	7051.2	7100.0
7.5°	6245.4	6272.9	6294.1	6338.7	6421.4	6529.5	6684.3	6697.1	6919.7	7117.0	7220.9
10°	6101.2	6133.0	6156.3	6211.4	6294.1	6415.0	6582.6	6605.9	6896.4	7220.9	7403.3
12.5°	5969.7	6001.5	6022.7	6094.8	6203.0	6351.4	6540.1	6567.7	6904.9	7341.8	7602.6
15°	6050.3	6075.7	6067.2	6088.4	6160.5	6330.2	6557.1	6584.7	6936.7	7458.4	7799.8
17.5°	6408.7	6429.9	6359.9	6279.3	6245.4	6370.5	6610.1	6639.8	7000.3	7579.3	8001.3
20°	6936.7	6994.0	6841.3	6661.0	6497.7	6514.7	6720.4	6752.2	7089.4	7700.1	8207.0
22.5°	7623.8	7666.2	7479.6	7182.7	6881.6	6726.8	6885.8	6904.9	7223.0	7857.1	8431.8
25°	8431.8	8457.2	8198.5	7816.8	7382.0	7089.4	7112.7	7146.7	7443.5	8035.2	8631.1
27.5°	9216.4	9297.0	8998.0	8531.4	7958.9	7471.1	7424.5	7445.7	7683.2	8134.9	8769.0
30°	10147.4	10141.0	9825.1	9284.3	8550.5	7886.8	7719.2	7715.0	7812.5	8183.7	8868.6
32.5°	10889.6	10976.6	10667.0	10077.4	9227.0	8317.3	7922.8	7914.3	7912.2	8268.5	9017.1
35°	11733.7	11746.4	11462.2	10868.4	9958.7	8858.0	8207.0	8164.6	8115.8	8450.9	9218.5
37.5°	12488.6	12548.0	12287.1	11621.3	10677.6	9420.0	8597.2	8569.6	8421.2	8766.8	9540.9
40°	13078.2	13122.7	12965.8	12331.7	11385.9	10026.5	9093.4	9042.5	8862.3	9284.3	9971.4
42.5°	13271.1	13362.3	13423.8	13112.1	12200.2	10745.4	9704.2	9640.6	9502.7	10068.9	10467.6
45°	13286.0	13430.2	13754.7	13769.5	13018.8	11606.4	10416.7	10372.2	10361.6	11074.1	11165.3
47.5°	13173.6	13319.9	13864.9	14159.7	13748.3	12475.9	11445.2	11375.3	11381.6	12316.8	11947.8
50°	12902.1	13076.0	13737.7	14409.9	14318.7	13379.3	12531.0	12507.7	12639.2	13735.6	12760.1
52.5°	12391.1	12601.0	13606.2	14566.9	14742.9	14157.6	13765.3	13699.5	14032.5	15275.2	13648.6
55°	10976.6	11292.6	13124.8	14653.8	15145.8	14901.9	14876.5	14995.2	15436.3	16954.7	14626.2
57.5°	10238.6	10476.1	12079.3	14668.7	15654.8	15767.2	16174.3	16204.0	16975.9	18738.2	15731.1
60°	9835.7	10045.6	11506.7	14571.1	16365.2	16838.1	17501.9	17607.9	18479.5	20670.1	16876.3
62.5°	9483.6	9663.9	11163.2	14233.9	17166.8	18426.5	19221.7	19272.6	20186.6	22803.5	18006.6
65°	8654.4	8860.1	10471.9	13896.7	17858.1	20411.4	21503.6	21444.2	22004.0	24644.3	18714.9
67.5°	7536.9	7797.7	9180.4	12732.5	18199.6	22580.9	24073.8	23999.6	23798.1	25850.9	18918.5
70°	6109.6	6249.6	7528.4	10720.0	16836.0	23719.7	26103.3	26024.8	24909.4	26010.0	17955.7
71°	5257.1	5475.6	6555.0	9521.8	15701.4	23371.9	26364.1	26342.9	24911.5	25571.0	17230.4
72.5°	4103.5	4237.1	5191.4	7377.8	13345.4	21395.4	25719.5	25800.0	24370.7	24351.6	15735.4
75°	2595.7	2655.1	3257.3	4343.1	7322.7	15152.2	21955.3	22173.7	21639.3	19932.2	11701.8
77.5°	1507.8	1584.1	1951.0	2559.6	3164.0	8223.9	15709.9	15947.4	15035.5	10974.5	4790.6
80°	878.0	962.8	1285.1	1486.6	1452.7	3051.6	7999.2	8404.2	6510.4	2771.7	1344.5
82.5°	487.8	545.0	903.4	905.5	774.0	996.7	2517.2	2633.9	1857.7	1117.6	549.3
85°	354.2	400.8	583.2	528.0	371.1	428.4	875.8	918.2	750.7	470.8	178.1
87.5°	125.1	178.1	320.2	254.5	101.8	89.1	252.4	205.7	190.9	131.5	40.3
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°	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6	7004.6
2.5°	7042.7	7047.0	7025.8	6987.6	6949.4	6900.7	6845.5	6803.1	6784.0	6781.9	6779.8
5°	7119.1	7129.7	7049.1	6930.3	6798.9	6637.7	6499.8	6342.9	6302.6	6239.0	6258.1
7.5°	7242.1	7235.7	7076.7	6824.3	6516.8	6175.4	5887.0	5719.4	5545.5	5496.8	5498.9
10°	7418.1	7377.8	7076.7	6608.0	6094.8	5588.0	5185.0	4930.6	4792.7	4678.2	4635.8
12.5°	7604.7	7502.9	7008.8	6304.7	5551.9	4930.6	4497.9	4154.4	4065.3	3972.0	3974.1
15°	7782.9	7613.2	6875.2	5878.5	4966.6	4228.6	3808.7	3603.0	3575.4	3586.0	3583.9
17.5°	7944.0	7691.7	6671.6	5403.5	4283.7	3626.3	3403.7	3418.5	3492.7	3545.8	3552.1
20°	8107.3	7738.3	6368.4	4767.3	3639.1	3261.6	3270.1	3386.7	3499.1	3571.2	3581.8
22.5°	8262.1	7759.5	6012.1	4152.3	3172.5	3106.8	3231.9	3357.0	3467.3	3537.3	3547.9
25°	8363.9	7710.7	5507.4	3509.7	2943.5	3051.6	3183.1	3289.2	3382.5	3454.6	3471.5
27.5°	8391.5	7553.8	4881.8	2990.1	2837.5	2998.6	3119.5	3198.0	3270.1	3337.9	3350.7
30°	8376.6	7322.7	4194.7	2684.8	2776.0	2937.1	3030.4	3087.7	3174.6	3227.7	3238.3
32.5°	8353.3	7053.3	3477.9	2521.5	2725.1	2879.9	2935.0	2985.9	2983.8	2962.6	2977.4
35°	8361.8	6731.0	2896.8	2423.9	2680.5	2837.5	2884.1	2820.5	2638.1	2629.6	2621.1
37.5°	8406.3	6412.9	2474.8	2356.1	2657.2	2831.1	2856.5	2563.9	2402.7	2328.5	2309.4
40°	8520.8	6041.8	2197.0	2305.2	2655.1	2879.9	2731.4	2434.5	2124.9	1980.7	1970.1
42.5°	8673.5	5677.0	2027.4	2273.4	2680.5	2954.1	2680.5	2252.1	1915.0	1830.1	1817.4
45°	8900.4	5259.3	1934.0	2258.5	2718.7	2981.7	2663.6	2118.5	1830.1	1762.3	1762.3
47.5°	9157.0	4860.6	1883.2	2247.9	2767.5	2962.6	2513.0	2076.1	1789.8	1798.3	1838.6
50°	9411.5	4514.9	1845.0	2224.6	2809.9	2952.0	2451.5	2074.0	1800.4	1908.6	1980.7
52.5°	9706.3	4271.0	1798.3	2186.4	2809.9	2884.1	2432.4	2116.4	1830.1	1861.9	1893.8
55°	10062.6	4194.7	1738.9	2103.7	2759.0	2714.5	2421.8	2177.9	1851.3	1777.1	1789.8
57.5°	10533.4	4317.7	1681.7	1999.8	2642.4	2538.4	2417.6	2194.9	1802.6	1741.1	1728.3
60°	11080.5	4561.6	1664.7	1893.8	2483.3	2387.9	2392.1	2146.1	1734.7	1671.1	1681.7
62.5°	11464.3	4707.9	1654.1	1813.2	2309.4	2222.5	2330.6	2086.7	1705.0	1649.9	1660.5
65°	11464.3	4529.7	1556.6	1690.2	2084.6	2023.1	2256.4	2012.5	1666.8	1603.2	1592.6
67.5°	11029.6	4010.2	1408.1	1505.7	1836.5	1796.2	2152.5	1923.4	1609.6	1560.8	1535.4
70°	9897.2	3041.0	1221.5	1289.4	1522.6	1558.7	2018.9	1802.6	1514.2	1454.8	1416.6
71°	9398.8	2648.7	1143.0	1179.1	1401.8	1454.8	1955.3	1751.7	1471.7	1386.9	1319.1
72.5°	8438.1	2230.9	1024.3	1039.1	1198.2	1293.6	1821.7	1654.1	1391.2	1270.3	1193.9
75°	6410.8	1628.7	824.9	816.5	886.4	1026.4	1541.7	1473.9	1219.4	1056.1	1011.6
77.5°	2769.6	886.4	617.1	623.5	602.3	778.3	1213.0	1266.0	1045.5	858.9	818.6
80°	839.8	511.1	422.0	430.5	402.9	521.7	854.6	992.5	839.8	668.0	612.9
82.5°	430.5	305.4	288.4	284.2	256.6	294.8	517.4	678.6	600.1	417.8	369.0
85°	186.6	163.3	142.1	137.8	120.9	106.0	184.5	339.3	318.1	233.3	222.7
87.5°	46.7	42.4	27.6	25.4	14.8	2.1	0.0	0.0	0.0	0.0	0.0
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)