

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: P459171

Luminaire Tested: **GALN-SA6C-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459171
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-SA6C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 39579 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

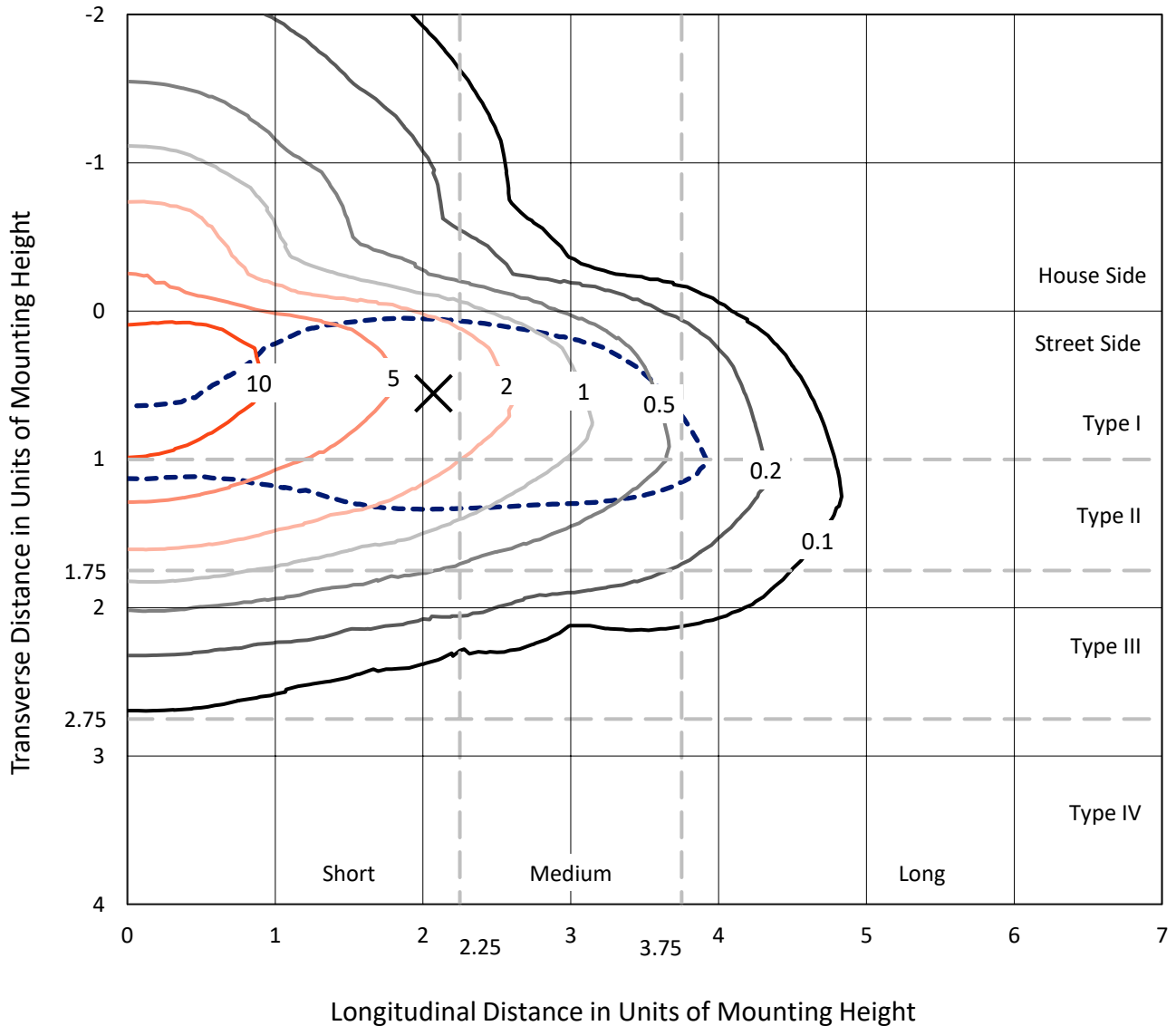
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

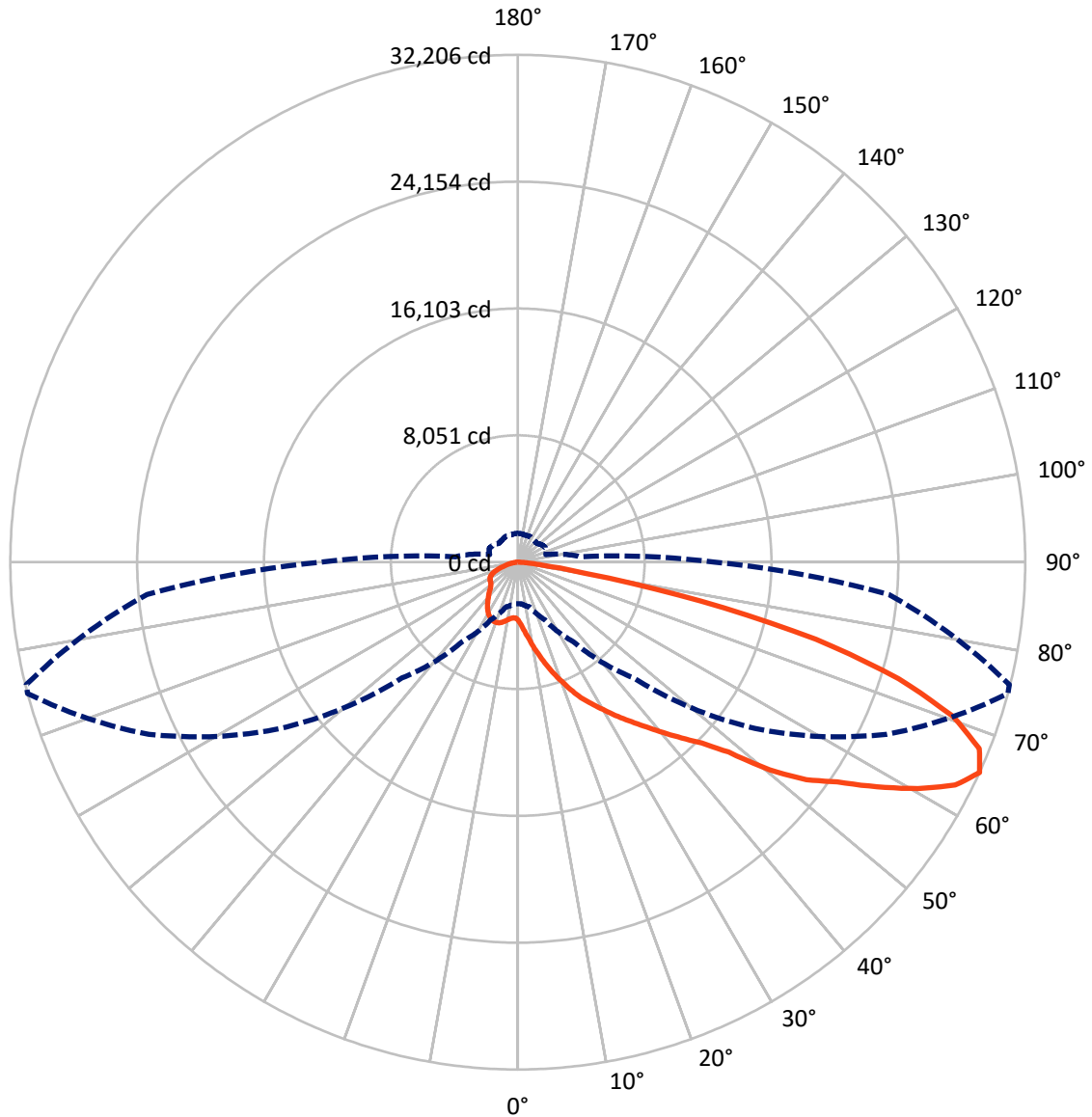
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	6653.8	0.0	6653.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32925.3	0.0	32925.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	39579.0	0.0	39579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.8	1.1
10°-20°	1750.0	4.4
20°-30°	3380.4	8.5
30°-40°	5490.9	13.9
40°-50°	7553.2	19.1
50°-60°	8917.7	22.5
60°-70°	7813.4	19.7
70°-80°	3730.2	9.4
80°-90°	496.3	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°	39579.0	100.0
0°-180°	39579.0	100.0

Coefficient of Utilization



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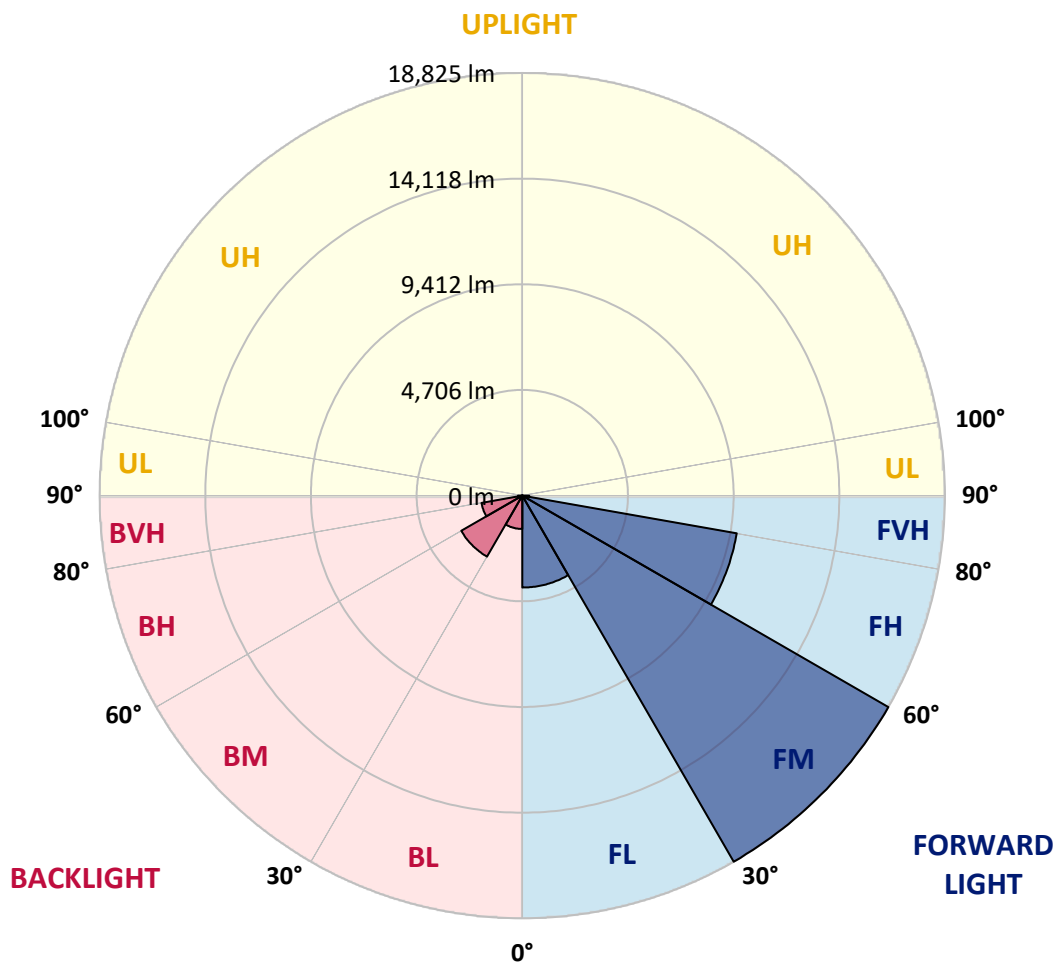
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4091.8	10.3			
FM	(30°-60°)	18824.6	47.6			
FH	(60°-80°)	9698.6	24.5			G4/12000
FVH	(80°-90°)	310.2	0.8			G3/500
BL	(0°-30°)	1485.4	3.8	B3/2500		
BM	(30°-60°)	3137.2	7.9	B3/5000		
BH	(60°-80°)	1845.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	186.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4
2.5°	4886.0	4853.8	4819.5	4725.0	4624.1	4510.3	4347.2	4190.5	3982.2	3975.8	3821.2
5°	6240.6	6219.1	6066.7	5978.7	5744.7	5433.4	5169.4	4759.4	4379.4	4334.3	4033.8
7.5°	7485.7	7402.0	7344.0	7185.2	6953.3	6554.0	6043.1	5489.2	4853.8	4793.7	4295.7
10°	8423.9	8415.3	8385.2	8247.8	8073.9	7676.8	7110.0	6315.7	5454.9	5336.8	4613.4
12.5°	9125.8	9132.3	9128.0	9125.8	9001.3	8664.3	8050.3	7213.1	6062.4	5978.7	4980.5
15°	9587.4	9651.8	9677.6	9784.9	9795.6	9570.2	9042.1	8080.4	6747.2	6622.7	5375.5
17.5°	9892.2	9924.4	10044.7	10227.1	10375.3	10334.5	9864.3	8883.3	7447.1	7238.9	5785.5
20°	10184.2	10240.0	10332.3	10581.3	10843.3	10963.5	10632.9	9705.5	8140.5	8007.4	6238.5
22.5°	10791.7	10871.2	10903.4	11030.0	11253.3	11465.8	11315.5	10493.3	8900.4	8720.1	6719.3
25°	11820.0	11903.7	11813.6	11783.5	11856.5	11961.7	11929.5	11236.1	9617.5	9359.8	7174.5
27.5°	13159.6	13170.3	12994.3	12826.9	12646.5	12592.9	12494.1	11895.2	10240.0	10025.3	7631.7
30°	14597.9	14546.4	14254.4	13951.8	13646.9	13346.4	13063.0	12530.6	10933.4	10686.5	8080.4
32.5°	15933.2	15905.3	15581.1	15111.0	14595.8	14312.4	13739.2	13172.5	11676.2	11437.9	8541.9
35°	16933.6	16974.4	16618.0	16104.9	15542.5	15291.3	14567.9	13846.6	12444.7	12185.0	9044.3
37.5°	17644.2	17622.7	17307.1	16862.7	16369.0	16150.0	15536.1	14582.9	13271.2	13022.2	9593.8
40°	17897.5	17884.6	17650.6	17326.4	17013.0	16935.7	16549.3	15377.2	14217.9	13926.0	10255.0
42.5°	17736.5	17764.4	17609.8	17521.8	17463.8	17519.7	17556.2	16418.4	15250.5	14982.2	10972.1
45°	17242.7	17227.7	17206.2	17350.1	17676.4	18043.5	18552.2	17401.6	16373.3	16158.6	11933.8
47.5°	16360.4	16467.7	16521.4	16918.6	17631.3	18500.7	19698.6	18719.7	18002.7	17815.9	13400.0
50°	15126.0	15211.9	15529.6	16235.9	17298.5	18672.5	20819.2	20875.0	20720.5	20370.5	14992.9
52.5°	13198.2	13331.3	13986.1	15280.6	16615.9	18601.6	21497.6	22723.4	22927.3	22665.4	16562.2
55°	11040.8	11227.5	11918.8	13616.9	15675.6	18215.2	21965.6	23794.6	24608.2	24365.7	18073.5
57.5°	8928.3	9125.8	9836.4	11480.8	14035.5	17360.8	22272.6	24988.2	26896.7	26581.1	19954.1
60°	6691.4	6897.5	7507.2	9201.0	11699.8	15690.6	22064.3	26022.9	29183.0	29047.7	21836.8
62.5°	4317.1	4544.7	5074.9	6476.8	8992.8	13408.6	20950.2	26594.0	31162.3	30999.1	23210.7
65°	2629.8	2655.5	2947.5	4020.9	6154.7	10381.7	18402.0	25836.2	32205.6	32156.2	23629.3
67.5°	1700.2	1741.0	1874.1	2408.7	3690.3	7210.9	14713.8	23335.2	31595.9	31578.7	22764.2
70°	1436.2	1449.1	1509.2	1625.1	2144.6	4372.9	10332.3	19348.7	29279.6	29279.6	20684.0
72.5°	1283.8	1300.9	1322.4	1358.9	1530.6	2477.4	6165.5	15061.6	25280.2	25447.6	17605.5
75°	1165.7	1161.4	1174.3	1180.7	1305.2	1618.7	3187.9	11139.5	19556.9	19222.0	12749.6
77.5°	998.2	1004.7	998.2	1026.1	1152.8	1232.2	1618.7	7475.0	11852.2	11418.6	6399.5
80°	820.1	830.8	841.5	858.7	985.4	936.0	972.5	3406.9	4383.7	4291.4	1977.2
82.5°	616.1	631.1	648.3	689.1	775.0	618.3	614.0	1455.5	1582.2	1449.1	727.7
85°	249.0	294.1	444.4	485.2	487.3	339.2	377.8	607.5	646.2	631.1	285.5
87.5°	58.0	68.7	143.8	216.8	199.6	126.7	139.5	197.5	225.4	208.2	96.6
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°	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4	3677.4
2.5°	3750.4	3675.2	3546.4	3447.7	3376.8	3314.6	3275.9	3252.3	3243.7	3241.6	3243.7
5°	3877.0	3743.9	3540.0	3411.2	3340.3	3299.6	3275.9	3273.8	3275.9	3278.1	3271.7
7.5°	4050.9	3859.9	3593.7	3473.4	3419.8	3389.7	3379.0	3374.7	3376.8	3374.7	3374.7
10°	4282.8	4020.9	3698.9	3574.3	3529.3	3494.9	3477.7	3467.0	3458.4	3449.8	3445.5
12.5°	4538.2	4199.1	3812.6	3692.4	3628.0	3574.3	3535.7	3507.8	3488.5	3469.2	3464.9
15°	4823.8	4388.0	3939.3	3771.8	3679.5	3600.1	3533.6	3488.5	3454.1	3426.2	3424.1
17.5°	5096.4	4566.1	4025.2	3808.3	3673.1	3561.5	3473.4	3411.2	3368.3	3331.8	3327.5
20°	5388.4	4735.7	4063.8	3784.7	3608.7	3473.4	3357.5	3282.4	3233.0	3192.2	3185.8
22.5°	5682.5	4879.6	4059.5	3709.6	3497.1	3338.2	3215.8	3136.4	3078.4	3037.7	3022.6
25°	5963.7	4995.5	4005.8	3589.4	3342.5	3177.2	3052.7	2979.7	2928.2	2878.8	2878.8
27.5°	6217.0	5064.2	3904.9	3443.4	3183.6	3009.7	2911.0	2844.4	2797.2	2765.0	2745.7
30°	6466.0	5096.4	3767.6	3258.8	3016.2	2868.1	2788.6	2750.0	2707.1	2670.6	2666.3
32.5°	6689.3	5090.0	3595.8	3078.4	2857.3	2752.1	2719.9	2689.9	2644.8	2593.3	2580.4
35°	6906.1	5047.0	3391.9	2880.9	2724.2	2683.4	2692.0	2649.1	2567.5	2503.1	2492.4
37.5°	7142.2	4969.7	3168.6	2719.9	2612.6	2651.2	2672.7	2578.3	2445.2	2344.3	2320.6
40°	7414.9	4881.7	2936.8	2558.9	2524.6	2621.2	2621.2	2447.3	2264.8	2202.6	2185.4
42.5°	7734.8	4808.7	2743.6	2423.7	2451.6	2548.2	2537.5	2273.4	2198.3	2166.1	2157.5
45°	8241.4	4783.0	2543.9	2305.6	2391.5	2462.3	2374.3	2213.3	2170.4	2144.6	2136.0
47.5°	9042.1	4813.0	2367.9	2217.6	2322.8	2376.5	2191.8	2172.5	2142.5	2106.0	2101.7
50°	9784.9	4785.1	2243.4	2168.2	2262.7	2273.4	2116.7	2123.1	2106.0	2065.2	2056.6
52.5°	10392.4	4697.1	2163.9	2142.5	2211.2	2093.1	2045.9	2069.5	2063.0	2011.5	2002.9
55°	11060.1	4643.4	2125.3	2142.5	2176.8	1936.4	1979.3	2013.7	2005.1	1968.6	1966.4
57.5°	11869.4	4654.2	2097.4	2148.9	2142.5	1856.9	1912.8	1953.5	1951.4	1940.7	1940.7
60°	12698.0	4658.5	2054.4	2146.8	2101.7	1794.7	1844.1	1902.0	1906.3	1912.8	1912.8
62.5°	12972.8	4471.7	1970.7	2108.1	2011.5	1734.6	1779.7	1859.1	1854.8	1872.0	1874.1
65°	12459.8	3954.3	1846.2	2020.1	1895.6	1691.6	1730.3	1803.3	1779.7	1824.7	1833.3
67.5°	11341.3	3271.7	1653.0	1861.2	1766.8	1646.6	1698.1	1726.0	1683.1	1771.1	1773.2
70°	9802.1	2554.6	1408.3	1635.8	1620.8	1599.3	1672.3	1629.4	1569.3	1676.6	1655.1
72.5°	8196.3	1951.4	1124.9	1337.4	1425.4	1528.5	1627.2	1504.9	1421.2	1453.4	1414.7
75°	6156.9	1442.6	903.8	1047.6	1187.2	1427.6	1586.5	1354.6	1225.8	1195.7	1187.2
77.5°	3138.6	942.4	676.2	783.6	890.9	1290.2	1530.6	1178.6	1015.4	968.2	946.7
80°	1120.6	586.1	476.6	541.0	601.1	1109.9	1337.4	974.6	787.9	779.3	787.9
82.5°	519.5	377.8	319.9	354.2	356.4	740.6	1019.7	727.7	598.9	910.2	768.5
85°	223.3	188.9	180.3	176.0	163.2	330.6	573.2	390.7	609.7	272.6	251.2
87.5°	66.5	75.1	66.5	49.4	36.5	36.5	58.0	21.5	15.0	10.7	10.7
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)