

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: P455327

Luminaire Tested: **GALN-SA6C-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38339 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

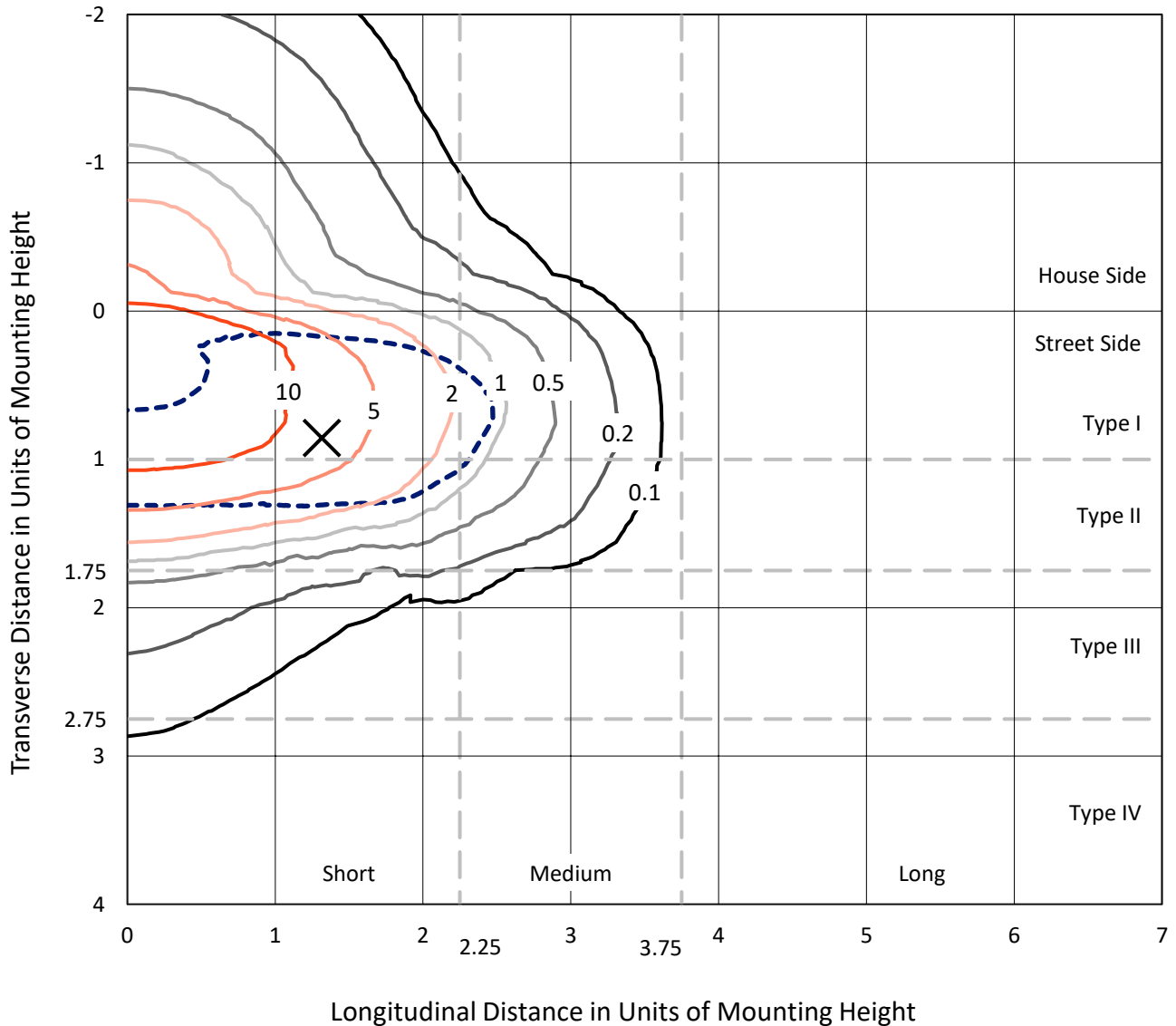
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

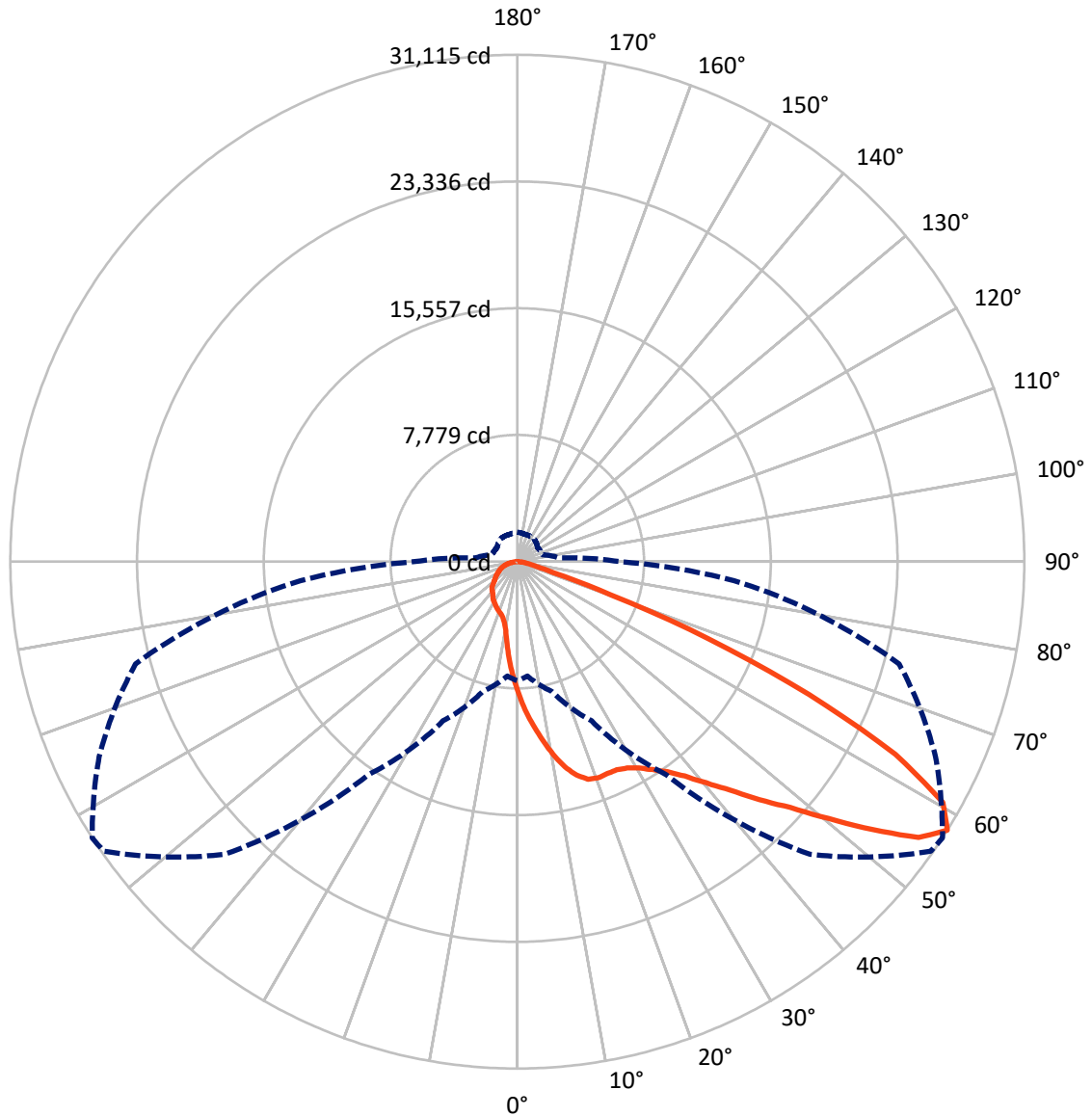
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5830.3	0.0	5830.3
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	32508.7	0.0	32508.7
	% Fixture	84.8	0.0	84.8
Total	Lumens	38339.0	0.0	38339.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	774.1	2.0
10°-20°	2281.4	6.0
20°-30°	3788.3	9.9
30°-40°	5706.3	14.9
40°-50°	8567.4	22.3
50°-60°	9603.0	25.0
60°-70°	5620.1	14.7
70°-80°	1662.4	4.3
80°-90°	336.0	0.9
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°	38339.0	100.0
0°-180°	38339.0	100.0

Coefficient of Utilization



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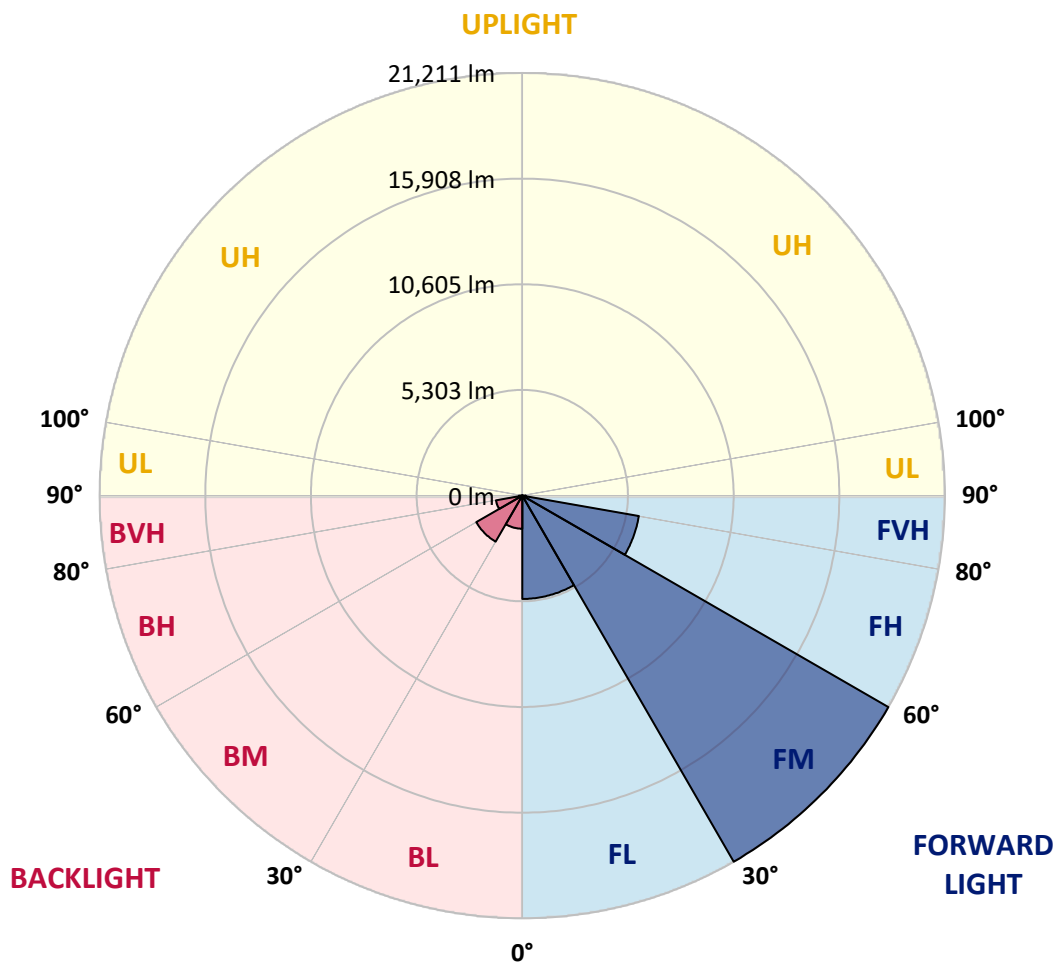
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5182.5	13.5			
FM	(30°-60°)	21210.8	55.3			
FH	(60°-80°)	5941.0	15.5			G3/7500
FVH	(80°-90°)	174.3	0.5			G2/225
BL	(0°-30°)	1661.3	4.3	B3/2500		
BM	(30°-60°)	2665.8	7.0	B3/5000		
BH	(60°-80°)	1341.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	161.7	0.4			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°	57°	65°	75°	85°
0°	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6
2.5°	10008.4	9899.3	9813.2	9737.7	9639.1	9372.5	9106.0	9101.8	8889.8	8562.5	8226.7
5°	11639.1	11492.2	11511.0	11276.0	11041.0	10654.8	10090.3	10060.9	9609.7	8996.9	8373.6
7.5°	12701.0	12703.1	12644.3	12510.0	12256.1	11817.4	11177.4	11032.6	10405.1	9475.4	8541.5
10°	12646.4	12703.1	12801.7	12917.1	12994.8	12778.6	12195.2	12018.9	11202.5	10054.6	8728.2
12.5°	11920.3	12008.4	12149.0	12438.6	12906.6	13263.4	13064.0	12921.3	12125.9	10631.7	8933.9
15°	11467.0	11519.4	11597.1	11792.3	12295.9	13150.1	13666.4	13590.8	12996.9	11284.4	9164.8
17.5°	11328.5	11380.9	11406.1	11525.7	11884.6	12759.7	13903.5	14037.8	13769.2	11884.6	9397.7
20°	11467.0	11492.2	11492.2	11563.5	11844.7	12531.0	13893.0	14163.7	14403.0	12604.4	9616.0
22.5°	11830.0	11840.5	11825.8	11851.0	12060.9	12593.9	13794.4	14130.2	14915.0	13215.1	9786.0
25°	12419.8	12436.5	12340.0	12281.2	12434.4	12871.0	13848.9	14157.4	15315.9	13798.6	9899.3
27.5°	13089.2	13110.2	12992.7	12856.3	12927.6	13213.0	14063.0	14340.0	15616.0	14373.6	9970.6
30°	13909.8	13918.2	13720.9	13557.2	13511.1	13723.0	14428.2	14686.3	15989.5	15051.5	10077.7
32.5°	14749.3	14812.2	14558.3	14327.4	14249.8	14314.8	14967.5	15217.2	16434.5	15779.7	10249.8
35°	15890.9	15901.4	15597.1	15315.9	15059.8	15143.8	15658.0	15838.4	17049.4	16621.2	10493.2
37.5°	17315.9	17412.4	16992.7	16468.0	16153.2	16031.5	16493.2	16690.5	17911.9	17653.8	10860.5
40°	18898.3	18933.9	18575.1	18247.7	17672.7	17320.1	17639.1	17853.1	18975.9	18885.7	11286.5
42.5°	19893.0	19970.7	19998.0	19964.4	19532.1	18940.2	19062.0	19162.7	20235.1	20042.0	11723.0
45°	20228.8	20344.2	20734.6	21561.4	21607.6	21024.2	20740.9	20837.4	21607.6	21208.9	12140.6
47.5°	19672.7	19869.9	20589.8	22285.5	23555.1	23599.2	22745.1	22533.1	22858.4	22176.3	12442.8
50°	18235.1	18277.1	19378.9	21834.3	24468.1	26060.9	25177.4	24782.9	24046.2	22892.0	12650.6
52.5°	16010.5	16058.8	16982.2	19737.7	23905.6	27781.8	28023.2	27318.0	25253.0	23448.1	12787.0
55°	11884.6	12163.7	13179.5	15842.6	21240.3	27620.2	30285.5	29884.7	26711.5	23888.8	13001.1
57.5°	7307.5	7051.4	8256.1	10778.6	15974.9	25399.9	30984.3	31114.5	28317.0	24258.2	13360.0
60°	3362.0	3412.4	3909.8	5559.3	9737.7	19869.9	29183.7	30006.4	29204.7	24245.6	13450.2
62.5°	2316.9	2270.7	2144.8	2440.7	4440.7	12566.7	24650.6	26044.1	27425.0	23492.2	13091.3
65°	2071.4	2025.2	1781.7	1699.9	2039.9	5477.5	17920.3	19679.0	23091.3	21590.8	12197.3
67.5°	1934.9	1872.0	1620.2	1460.7	1456.5	2180.5	10566.7	12684.2	17127.0	18254.0	10568.8
70°	1792.2	1741.9	1492.1	1315.8	1240.3	1370.4	4644.3	6079.8	11120.7	13154.3	8233.0
72.5°	1649.5	1590.8	1366.2	1177.3	1078.7	1026.2	1779.6	2314.8	6283.3	7886.7	5047.2
75°	1441.8	1412.4	1221.4	1066.1	959.1	829.0	1129.1	1288.6	3005.3	3622.3	2533.1
77.5°	1261.3	1229.8	1085.0	931.8	854.1	673.7	801.7	875.1	1267.6	1469.0	1143.8
80°	923.4	954.9	915.0	822.7	761.8	528.9	539.4	600.2	753.4	833.2	698.8
82.5°	585.5	644.3	705.1	633.8	577.1	417.6	373.6	396.6	514.2	545.6	310.6
85°	245.5	249.7	409.2	386.1	329.5	247.6	224.6	237.1	274.9	287.5	144.8
87.5°	94.4	92.3	144.8	134.3	102.8	71.4	71.4	79.7	109.1	100.7	46.2
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°	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6	8054.6
2.5°	8081.9	7932.9	7637.0	7269.7	7001.1	6698.9	6432.3	6241.4	6170.0	6136.4	6073.5
5°	8075.6	7781.8	7169.0	6526.8	6010.5	5481.7	5034.6	4745.0	4719.8	4526.8	4507.9
7.5°	8077.7	7628.6	6652.7	5708.3	4921.3	4379.9	4010.5	3914.0	3798.5	3769.2	3783.9
10°	8084.0	7433.4	6098.7	4898.2	4136.4	3781.8	3643.2	3605.5	3609.7	3622.3	3624.4
12.5°	8092.4	7244.5	5523.6	4283.3	3695.7	3548.8	3534.1	3567.7	3603.4	3630.6	3636.9
15°	8102.9	7028.3	4963.3	3788.0	3475.3	3462.8	3511.0	3567.7	3618.1	3657.9	3664.2
17.5°	8090.3	6776.5	4493.2	3483.7	3353.6	3414.5	3494.2	3565.6	3611.8	3649.5	3653.7
20°	8060.9	6495.3	4039.9	3269.7	3278.1	3376.7	3462.8	3529.9	3580.3	3599.2	3613.9
22.5°	7947.6	6159.5	3645.3	3103.9	3187.8	3324.2	3427.1	3467.0	3410.3	3370.4	3380.9
25°	7754.5	5723.0	3278.1	2969.6	3106.0	3250.8	3355.7	3259.2	3213.0	3196.2	3204.6
27.5°	7513.1	5244.5	3001.1	2829.0	3001.1	3168.9	3139.6	3122.8	3101.8	3074.5	3080.8
30°	7252.9	4776.5	2766.0	2719.8	2887.7	2984.3	2996.9	3024.1	3001.1	2959.1	2975.9
32.5°	7011.6	4335.8	2587.6	2627.5	2808.0	2793.3	2887.7	2919.2	2812.2	2671.6	2677.9
35°	6805.9	3926.6	2453.3	2537.3	2671.6	2677.9	2772.3	2663.2	2547.8	2480.6	2484.8
37.5°	6650.6	3607.6	2365.2	2459.6	2497.4	2577.1	2526.8	2470.1	2455.4	2409.2	2411.3
40°	6558.3	3328.4	2308.5	2398.7	2392.5	2447.0	2285.4	2342.1	2363.1	2348.4	2350.5
42.5°	6465.9	3131.2	2249.7	2314.8	2312.7	2205.7	2170.0	2218.3	2272.8	2279.1	2274.9
45°	6392.5	2978.0	2188.9	2186.8	2228.8	2060.9	2050.4	2079.8	2157.4	2195.2	2193.1
47.5°	6310.6	2850.0	2096.5	2037.8	2050.4	1970.6	1953.8	1966.4	2060.9	2121.7	2138.5
50°	6207.8	2721.9	1981.1	1901.4	1848.9	1886.7	1890.9	1893.0	1987.4	2056.7	2071.4
52.5°	6125.9	2625.4	1848.9	1790.1	1727.2	1811.1	1842.6	1846.8	1903.5	1960.1	1970.6
55°	6174.2	2570.8	1718.8	1676.8	1620.2	1733.5	1794.3	1802.7	1815.3	1857.3	1863.6
57.5°	6319.0	2583.4	1613.9	1559.3	1517.3	1641.1	1744.0	1750.3	1741.9	1792.2	1800.6
60°	6363.1	2577.1	1536.2	1429.2	1404.0	1542.5	1670.5	1683.1	1681.0	1754.5	1769.2
62.5°	6178.4	2497.4	1458.6	1320.0	1303.3	1441.8	1567.7	1618.1	1628.5	1733.5	1752.4
65°	5744.0	2333.7	1355.7	1204.6	1204.6	1334.7	1469.0	1538.3	1567.7	1708.3	1729.3
67.5°	5171.1	2140.6	1250.8	1106.0	1101.8	1231.9	1364.1	1435.5	1481.6	1672.6	1685.2
70°	4291.7	1880.4	1120.7	999.0	999.0	1116.5	1236.1	1322.1	1389.3	1605.5	1605.5
72.5°	2940.2	1563.5	963.3	877.2	879.3	988.5	1110.2	1206.7	1286.5	1471.1	1475.3
75°	1859.4	1221.4	791.2	747.1	755.5	858.3	984.3	1085.0	1244.5	1454.4	1460.7
77.5°	988.5	858.3	629.6	619.1	629.6	724.0	864.6	1003.2	1248.7	1261.3	1240.3
80°	640.1	608.6	497.4	476.4	480.6	583.4	770.2	952.8	1003.2	1015.7	969.6
82.5°	348.4	386.1	352.6	331.6	331.6	455.4	656.9	757.6	719.8	598.1	570.8
85°	149.0	180.5	182.6	159.5	153.2	281.2	440.7	413.4	384.1	367.3	363.1
87.5°	42.0	58.8	58.8	44.1	33.6	77.6	88.1	25.2	0.0	2.1	4.2
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)