

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: P456764

Luminaire Tested: **GALN-SA8A-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456764
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-SA8A-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 37634 lumens
Efficiency: N/A
Efficacy: 154.2 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

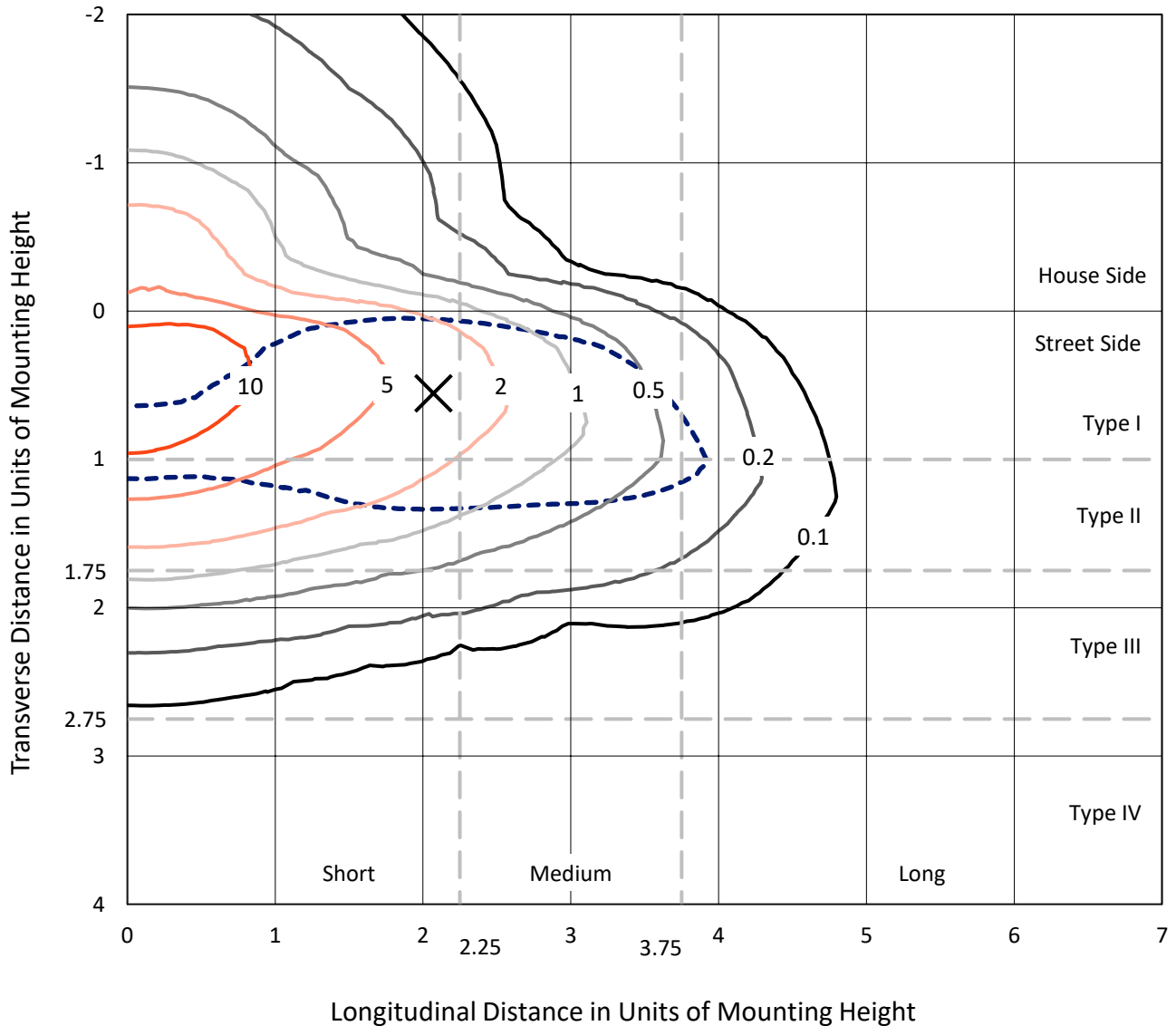
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

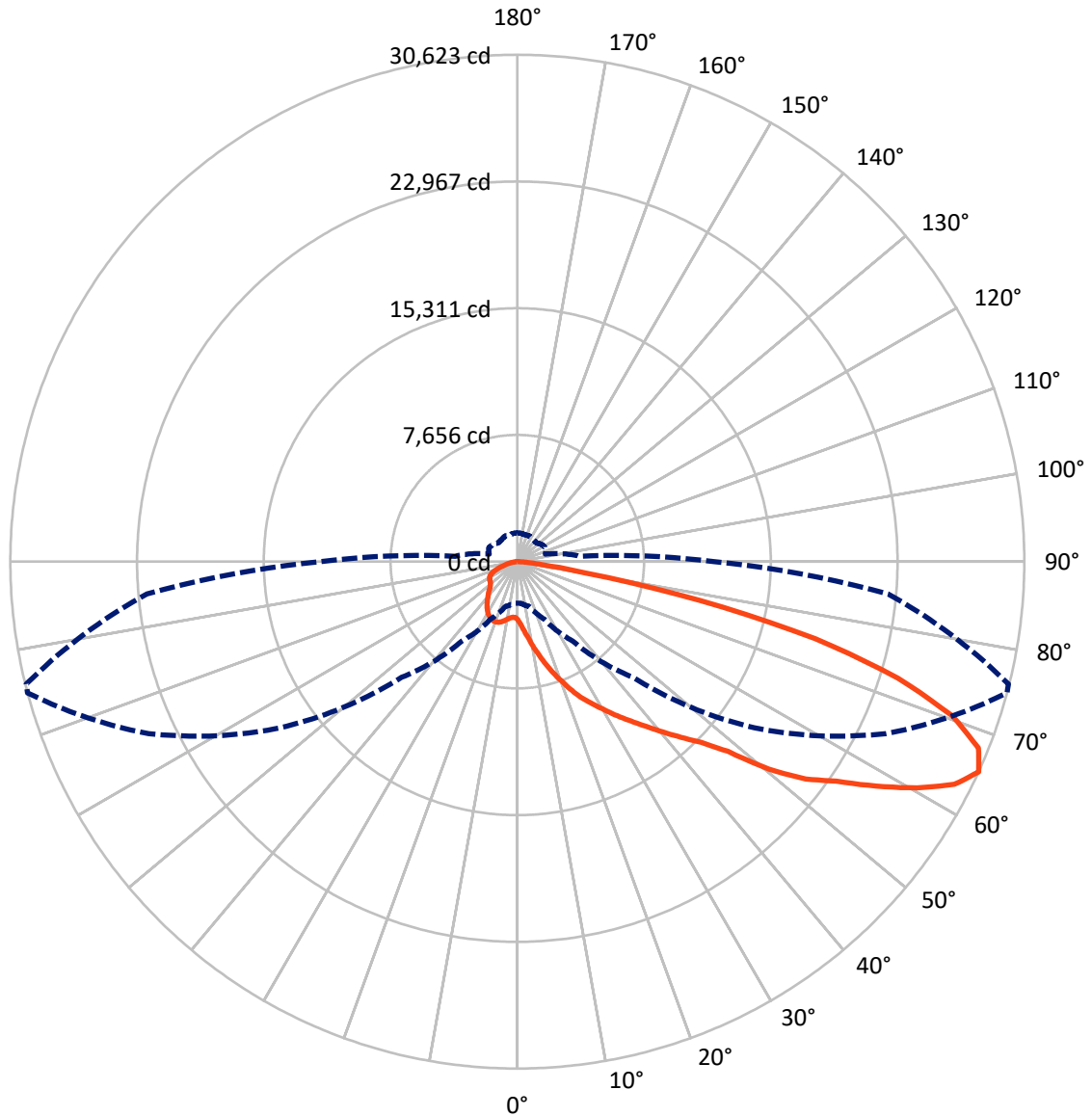
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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	6326.8	0.0	6326.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	31307.2	0.0	31307.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	37634.0	0.0	37634.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.8	1.1
10°-20°	1664.0	4.4
20°-30°	3214.3	8.5
30°-40°	5221.0	13.9
40°-50°	7182.0	19.1
50°-60°	8479.5	22.5
60°-70°	7429.4	19.7
70°-80°	3546.9	9.4
80°-90°	472.0	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°	37634.0	100.0
0°-180°	37634.0	100.0



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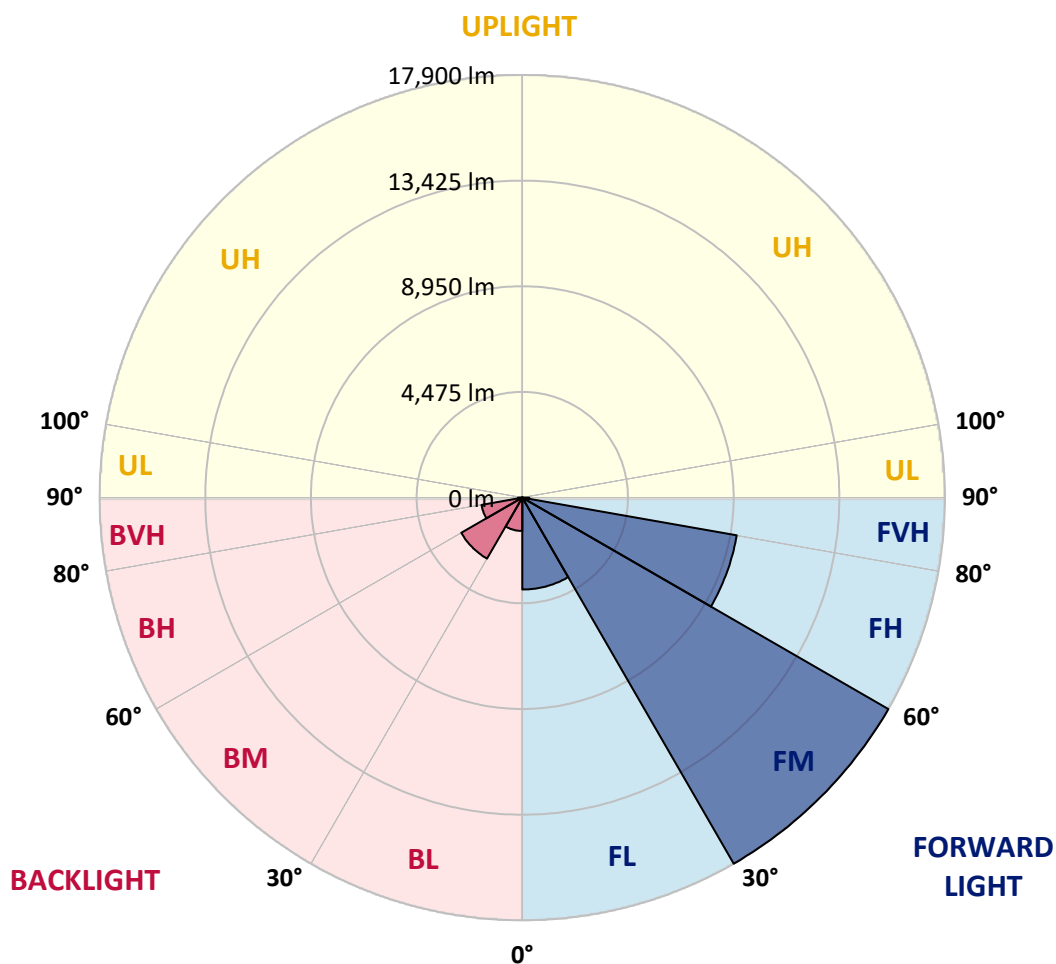
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3890.8	10.3			
FM	(30°-60°)	17899.5	47.6			
FH	(60°-80°)	9222.0	24.5			G4/12000
FVH	(80°-90°)	294.9	0.8			G3/500
BL	(0°-30°)	1412.4	3.8	B3/2500		
BM	(30°-60°)	2983.0	7.9	B3/5000		
BH	(60°-80°)	1754.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	177.0	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°	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7
2.5°	4645.9	4615.3	4582.6	4492.8	4396.9	4288.7	4133.5	3984.5	3786.5	3780.4	3633.4
5°	5933.9	5913.5	5768.6	5684.9	5462.4	5166.4	4915.3	4525.5	4164.2	4121.3	3835.5
7.5°	7117.9	7038.3	6983.1	6832.1	6611.6	6232.0	5746.1	5219.5	4615.3	4558.1	4084.6
10°	8009.9	8001.7	7973.2	7842.5	7677.2	7299.5	6760.6	6005.4	5186.8	5074.6	4386.7
12.5°	8677.4	8683.5	8679.4	8677.4	8559.0	8238.5	7654.7	6858.6	5764.5	5684.9	4735.7
15°	9116.3	9177.5	9202.0	9304.1	9314.3	9099.9	8597.8	7683.3	6415.7	6297.3	5111.3
17.5°	9406.1	9436.7	9551.0	9724.6	9865.4	9826.6	9379.6	8446.7	7081.1	6883.1	5501.2
20°	9683.7	9736.8	9824.6	10061.4	10310.4	10424.7	10110.3	9228.5	7740.4	7613.9	5931.9
22.5°	10261.4	10336.9	10367.5	10488.0	10700.3	10902.4	10759.5	9977.7	8463.1	8291.6	6389.1
25°	11239.2	11318.8	11233.0	11204.5	11273.9	11373.9	11343.3	10683.9	9144.8	8899.9	6821.9
27.5°	12512.9	12523.1	12355.7	12196.5	12025.0	11974.0	11880.1	11310.6	9736.8	9532.7	7256.7
30°	13880.6	13831.6	13553.9	13266.1	12976.3	12690.5	12421.1	11914.8	10396.1	10161.4	7683.3
32.5°	15150.2	15123.7	14815.4	14368.4	13878.5	13609.1	13064.0	12525.2	11102.4	10875.8	8122.2
35°	16101.4	16140.2	15801.4	15313.5	14778.7	14539.9	13852.0	13166.1	11833.2	11586.2	8599.8
37.5°	16777.1	16756.7	16456.6	16034.1	15564.6	15356.4	14772.6	13866.3	12619.1	12382.3	9122.4
40°	17018.0	17005.7	16783.2	16475.0	16177.0	16103.5	15736.1	14621.5	13519.2	13241.6	9751.1
42.5°	16864.9	16891.4	16744.4	16660.7	16605.6	16658.7	16693.4	15611.5	14501.1	14245.9	10432.9
45°	16395.4	16381.1	16360.7	16497.4	16807.7	17156.8	17640.5	16546.4	15568.7	15364.5	11347.3
47.5°	15556.4	15658.5	15709.5	16087.1	16764.8	17591.6	18730.6	17799.8	17118.0	16940.4	12741.5
50°	14382.7	14464.3	14766.5	15438.0	16448.5	17754.9	19796.1	19849.2	19702.2	19369.5	14256.1
52.5°	12549.7	12676.2	13298.8	14529.7	15799.3	17687.5	20441.2	21606.7	21800.6	21551.6	15748.3
55°	10498.2	10675.8	11333.1	12947.7	14905.3	17320.1	20886.1	22625.3	23398.9	23168.3	17185.3
57.5°	8489.6	8677.4	9353.0	10916.6	13345.7	16507.6	21178.0	23760.2	25574.9	25274.8	18973.5
60°	6362.6	6558.6	7138.3	8748.8	11124.9	14919.6	20980.0	24744.1	27748.9	27620.3	20763.7
62.5°	4105.0	4321.3	4825.5	6158.5	8550.8	12749.7	19920.6	25287.1	29630.9	29475.8	22070.1
65°	2500.5	2525.0	2802.6	3823.3	5852.3	9871.5	17497.7	24566.5	30622.9	30576.0	22468.1
67.5°	1616.7	1655.5	1782.0	2290.3	3508.9	6856.6	13990.8	22188.5	30043.2	30026.9	21645.5
70°	1365.6	1377.8	1435.0	1545.2	2039.2	4158.0	9824.6	18397.9	27840.7	27840.7	19667.5
72.5°	1220.7	1237.0	1257.4	1292.1	1455.4	2355.6	5862.5	14321.5	24037.8	24197.1	16740.4
75°	1108.4	1104.3	1116.6	1122.7	1241.1	1539.1	3031.3	10592.1	18595.9	18277.4	12123.0
77.5°	949.2	955.3	949.2	975.7	1096.2	1171.7	1539.1	7107.7	11269.8	10857.4	6085.0
80°	779.8	790.0	800.2	816.5	936.9	890.0	924.7	3239.5	4168.2	4080.5	1880.0
82.5°	585.8	600.1	616.5	655.2	736.9	587.9	583.8	1384.0	1504.4	1377.8	692.0
85°	236.8	279.7	422.5	461.3	463.4	322.5	359.3	577.7	614.4	600.1	271.5
87.5°	55.1	65.3	136.8	206.2	189.8	120.4	132.7	187.8	214.3	198.0	91.9
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°	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7	3496.7
2.5°	3566.1	3494.6	3372.2	3278.3	3210.9	3151.7	3115.0	3092.5	3084.3	3082.3	3084.3
5°	3686.5	3560.0	3366.0	3243.6	3176.2	3137.4	3115.0	3112.9	3115.0	3117.0	3110.9
7.5°	3851.9	3670.2	3417.1	3302.8	3251.7	3223.1	3212.9	3208.9	3210.9	3208.9	3208.9
10°	4072.3	3823.3	3517.1	3398.7	3355.8	3323.2	3306.8	3296.6	3288.5	3280.3	3276.2
12.5°	4315.2	3992.7	3625.3	3511.0	3449.7	3398.7	3362.0	3335.4	3317.0	3298.7	3294.6
15°	4586.7	4172.3	3745.7	3586.5	3498.7	3423.2	3359.9	3317.0	3284.4	3257.8	3255.8
17.5°	4845.9	4341.8	3827.4	3621.2	3492.6	3386.4	3302.8	3243.6	3202.7	3168.0	3163.9
20°	5123.6	4503.0	3864.1	3598.7	3431.4	3302.8	3192.5	3121.1	3074.1	3035.3	3029.2
22.5°	5403.2	4639.8	3860.0	3527.3	3325.2	3174.2	3057.8	2982.3	2927.2	2888.4	2874.1
25°	5670.6	4750.0	3809.0	3413.0	3178.2	3021.1	2902.7	2833.3	2784.3	2737.3	2737.3
27.5°	5911.5	4815.3	3713.0	3274.2	3027.2	2861.8	2767.9	2704.7	2659.8	2629.1	2610.8
30°	6148.3	4845.9	3582.4	3098.6	2868.0	2727.1	2651.6	2614.9	2574.0	2539.3	2535.2
32.5°	6360.6	4839.8	3419.1	2927.2	2716.9	2616.9	2586.3	2557.7	2514.8	2465.8	2453.6
35°	6566.7	4799.0	3225.2	2739.4	2590.4	2551.6	2559.7	2518.9	2441.3	2380.1	2369.9
37.5°	6791.3	4725.5	3012.9	2586.3	2484.2	2521.0	2541.4	2451.6	2325.0	2229.1	2206.6
40°	7050.5	4641.8	2792.4	2433.2	2400.5	2492.4	2492.4	2327.0	2153.5	2094.3	2078.0
42.5°	7354.7	4572.4	2608.7	2304.6	2331.1	2423.0	2412.8	2161.7	2090.2	2059.6	2051.5
45°	7836.4	4547.9	2418.9	2192.3	2274.0	2341.3	2257.6	2104.5	2063.7	2039.2	2031.1
47.5°	8597.8	4576.5	2251.5	2108.6	2208.6	2259.7	2084.1	2065.8	2037.2	2002.5	1998.4
50°	9304.1	4550.0	2133.1	2061.7	2151.5	2161.7	2012.7	2018.8	2002.5	1963.7	1955.5
52.5°	9881.7	4466.3	2057.6	2037.2	2102.5	1990.2	1945.3	1967.8	1961.6	1912.7	1904.5
55°	10516.6	4415.2	2020.8	2037.2	2069.8	1841.2	1882.0	1914.7	1906.5	1871.8	1869.8
57.5°	11286.1	4425.4	1994.3	2043.3	2037.2	1765.7	1818.8	1857.5	1855.5	1845.3	1845.3
60°	12074.0	4429.5	1953.5	2041.3	1998.4	1706.5	1753.4	1808.6	1812.6	1818.8	1818.8
62.5°	12335.3	4251.9	1873.9	2004.5	1912.7	1649.3	1692.2	1767.7	1763.6	1780.0	1782.0
65°	11847.5	3760.0	1755.5	1920.8	1802.4	1608.5	1645.3	1714.7	1692.2	1735.1	1743.2
67.5°	10784.0	3110.9	1571.8	1769.8	1680.0	1565.6	1614.6	1641.2	1600.3	1684.0	1686.1
70°	9320.4	2429.1	1339.1	1555.4	1541.1	1520.7	1590.1	1549.3	1492.2	1594.2	1573.8
72.5°	7793.5	1855.5	1069.6	1271.7	1355.4	1453.4	1547.3	1430.9	1351.3	1381.9	1345.2
75°	5854.3	1371.7	859.4	996.1	1128.8	1357.4	1508.5	1288.0	1165.6	1137.0	1128.8
77.5°	2984.3	896.1	643.0	745.1	847.1	1226.8	1455.4	1120.7	965.5	920.6	900.2
80°	1065.5	557.3	453.2	514.4	571.6	1055.3	1271.7	926.7	749.1	741.0	749.1
82.5°	494.0	359.3	304.1	336.8	338.8	704.2	969.6	692.0	569.5	865.5	730.8
85°	212.3	179.6	171.5	167.4	155.1	314.4	545.0	371.5	579.7	259.2	238.8
87.5°	63.3	71.4	63.3	46.9	34.7	34.7	55.1	20.4	14.3	10.2	10.2
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)