

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: P456068

Luminaire Tested: **GALN-SA7B-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456068
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-SA7B-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40391 lumens
Efficiency: N/A
Efficacy: 141.2 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

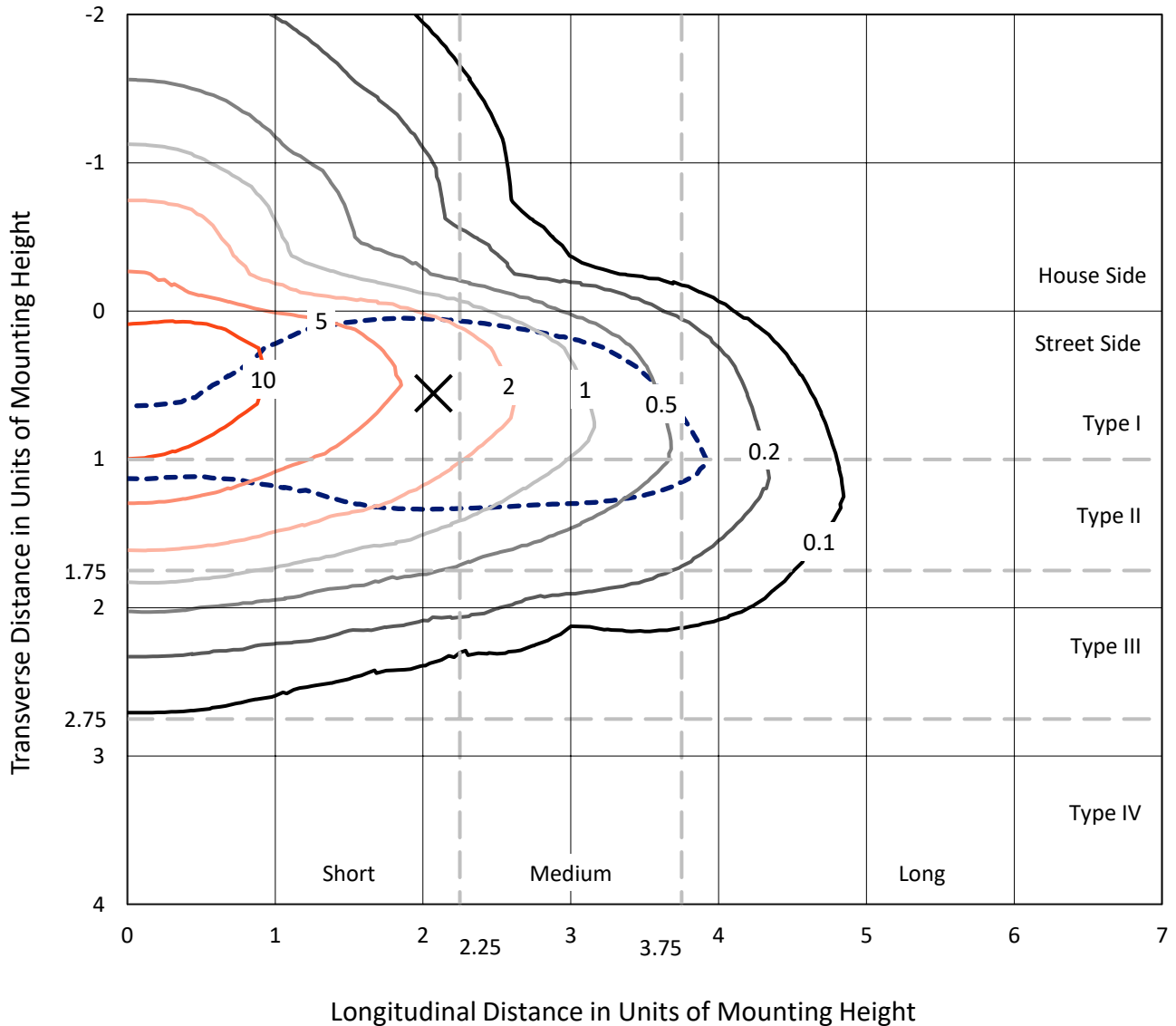
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

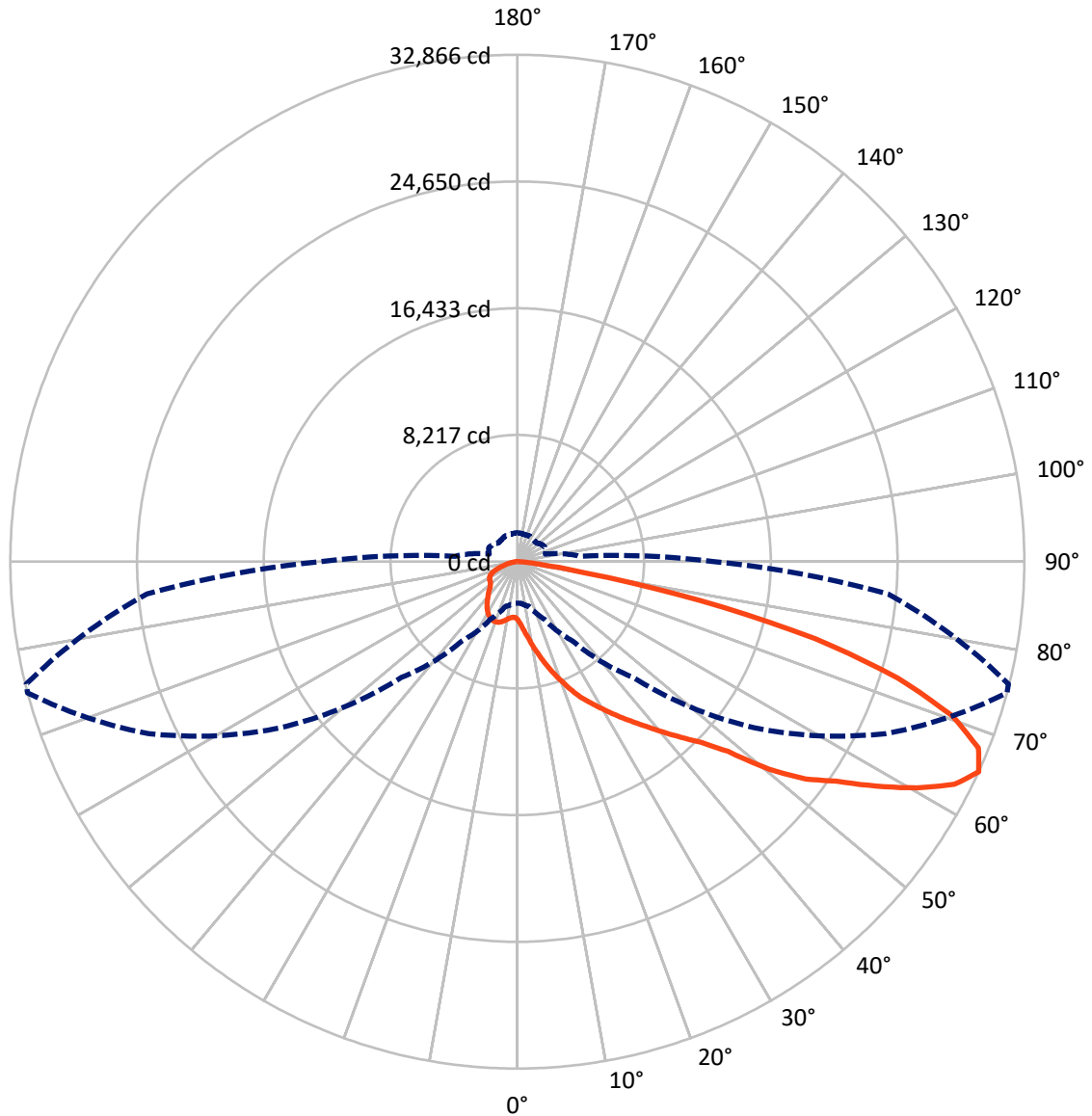
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	6790.2	0.0	6790.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	33600.7	0.0	33600.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	40391.0	0.0	40391.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	456.0	1.1
10°-20°	1785.9	4.4
20°-30°	3449.8	8.5
30°-40°	5603.5	13.9
40°-50°	7708.1	19.1
50°-60°	9100.7	22.5
60°-70°	7973.7	19.7
70°-80°	3806.7	9.4
80°-90°	506.5	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°	40391.0	100.0
0°-180°	40391.0	100.0



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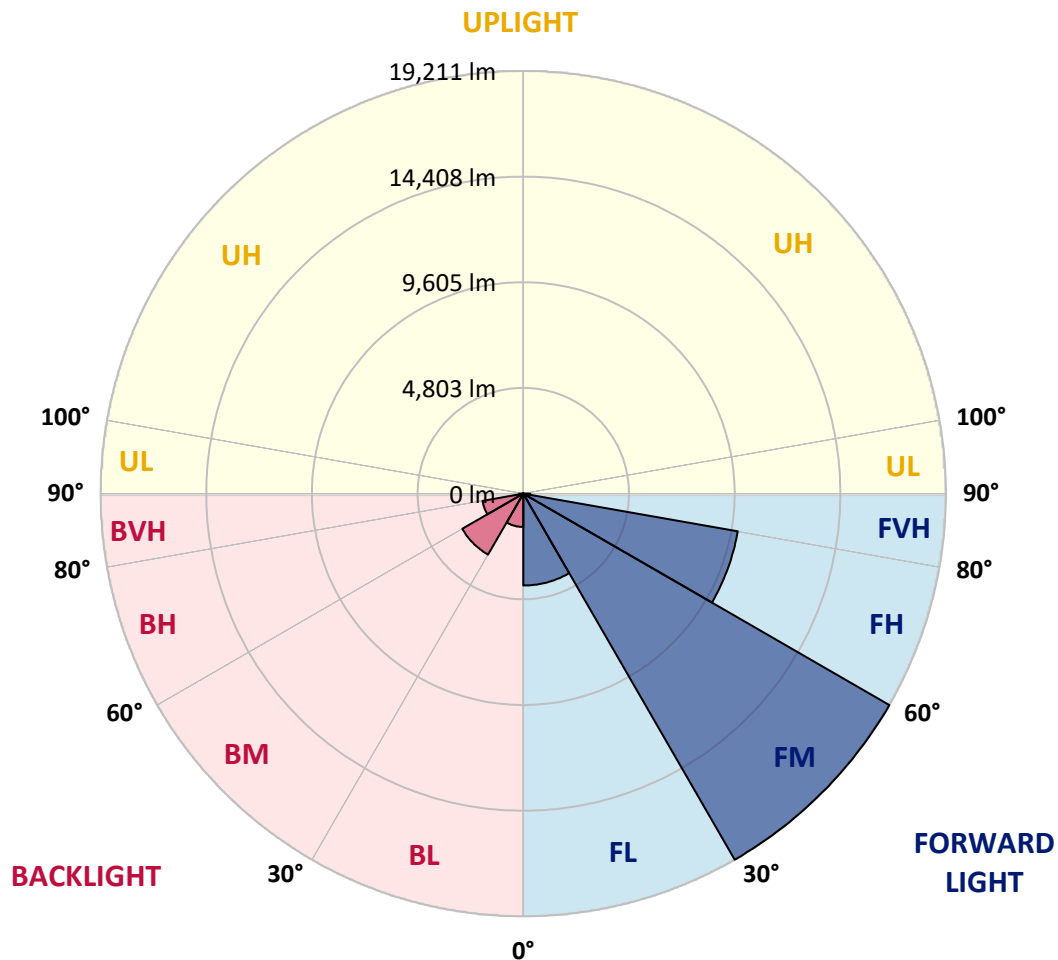
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4175.8	10.3			
FM (30°-60°)	19210.8	47.6			
FH (60°-80°)	9897.6	24.5			G4/12000
FVH (80°-90°)	316.5	0.8			G3/500
BL (0°-30°)	1515.9	3.8	B3/2500		
BM (30°-60°)	3201.6	7.9	B3/5000		
BH (60°-80°)	1882.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	190.0	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°	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8
2.5°	4986.3	4953.4	4918.3	4821.9	4719.0	4602.9	4436.4	4276.4	4063.9	4057.4	3899.6
5°	6368.6	6346.7	6191.2	6101.4	5862.6	5544.9	5275.4	4857.0	4469.2	4423.2	4116.5
7.5°	7639.3	7553.9	7494.7	7332.6	7096.0	6688.5	6167.1	5601.9	4953.4	4892.0	4383.8
10°	8596.7	8587.9	8557.3	8417.0	8239.6	7834.3	7255.9	6445.3	5566.8	5446.3	4708.0
12.5°	9313.1	9319.6	9315.3	9313.1	9186.0	8842.1	8215.5	7361.1	6186.8	6101.4	5082.6
15°	9784.1	9849.8	9876.1	9985.6	9996.6	9766.6	9227.6	8246.2	6885.7	6758.6	5485.8
17.5°	10095.2	10128.1	10250.7	10437.0	10588.1	10546.5	10066.7	9065.5	7599.9	7387.4	5904.2
20°	10393.1	10450.1	10544.3	10798.4	11065.7	11188.4	10851.0	9904.6	8307.5	8171.7	6366.5
22.5°	11013.1	11094.2	11127.1	11256.3	11484.2	11701.0	11547.7	10708.6	9083.0	8899.0	6857.2
25°	12062.5	12148.0	12056.0	12025.3	12099.8	12207.1	12174.3	11466.6	9814.8	9551.9	7321.6
27.5°	13429.6	13440.5	13260.9	13090.0	12906.0	12851.2	12750.4	12139.2	10450.1	10231.0	7788.3
30°	14897.4	14844.8	14546.9	14238.0	13926.9	13620.2	13331.0	12787.7	11157.7	10905.8	8246.2
32.5°	16260.1	16231.6	15900.8	15421.0	14895.2	14606.0	14021.1	13442.7	11915.7	11672.6	8717.2
35°	17281.0	17322.6	16959.0	16435.4	15861.4	15605.0	14866.7	14130.6	12700.0	12435.0	9229.8
37.5°	18006.2	17984.2	17662.2	17208.7	16704.8	16481.4	15854.8	14882.1	13543.5	13289.4	9790.7
40°	18264.7	18251.5	18012.7	17681.9	17362.1	17283.2	16888.8	15692.7	14509.6	14211.7	10465.4
42.5°	18100.4	18128.8	17971.1	17881.3	17822.1	17879.1	17916.3	16755.2	15563.4	15289.6	11197.2
45°	17596.5	17581.1	17559.2	17706.0	18039.0	18413.6	18932.9	17758.6	16709.2	16490.1	12178.6
47.5°	16696.1	16805.6	16860.4	17265.7	17993.0	18880.3	20102.7	19103.7	18372.0	18181.4	13675.0
50°	15436.4	15524.0	15848.2	16569.0	17653.4	19055.5	21246.3	21303.3	21145.6	20788.5	15300.5
52.5°	13469.0	13604.8	14273.0	15594.1	16956.8	18983.2	21938.6	23189.6	23397.7	23130.4	16902.0
55°	11267.3	11457.9	12163.3	13896.2	15997.2	18588.9	22416.2	24282.8	25113.1	24865.5	18444.3
57.5°	9111.5	9313.1	10038.2	11716.4	14323.4	17717.0	22729.5	25500.9	27448.5	27126.4	20363.5
60°	6828.7	7039.0	7661.2	9389.8	11939.8	16012.5	22517.0	26556.8	29781.7	29643.7	22284.8
62.5°	4405.7	4637.9	5179.0	6609.6	9177.2	13683.7	21380.0	27139.6	31801.6	31635.1	23686.9
65°	2683.7	2710.0	3008.0	4103.4	6281.0	10594.7	18779.5	26366.2	32866.3	32815.9	24114.1
67.5°	1735.1	1776.7	1912.6	2458.1	3766.0	7358.9	15015.7	23814.0	32244.1	32226.6	23231.2
70°	1465.6	1478.8	1540.1	1658.4	2188.6	4462.7	10544.3	19745.6	29880.3	29880.3	21108.3
72.5°	1310.1	1327.6	1349.5	1386.8	1562.0	2528.2	6292.0	15370.6	25798.8	25969.7	17966.7
75°	1189.6	1185.2	1198.4	1204.9	1332.0	1651.9	3253.3	11368.0	19958.2	19616.4	13011.1
77.5°	1018.7	1025.3	1018.7	1047.2	1176.5	1257.5	1651.9	7628.4	12095.4	11652.8	6530.8
80°	836.9	847.8	858.8	876.3	1005.6	955.2	992.4	3476.8	4473.6	4379.4	2017.7
82.5°	628.8	644.1	661.6	703.2	790.9	630.9	626.6	1485.4	1614.6	1478.8	742.7
85°	254.1	300.1	453.5	495.1	497.3	346.1	385.6	620.0	659.4	644.1	291.4
87.5°	59.2	70.1	146.8	221.3	203.7	129.3	142.4	201.6	230.0	212.5	98.6
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°	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8	3752.8
2.5°	3827.3	3750.6	3619.2	3518.4	3446.1	3382.6	3343.2	3319.1	3310.3	3308.1	3310.3
5°	3956.6	3820.7	3612.6	3481.2	3408.9	3367.3	3343.2	3341.0	3343.2	3345.3	3338.8
7.5°	4134.0	3939.1	3667.4	3544.7	3489.9	3459.3	3448.3	3443.9	3446.1	3443.9	3443.9
10°	4370.6	4103.4	3774.7	3647.7	3601.7	3566.6	3549.1	3538.1	3529.4	3520.6	3516.2
12.5°	4631.3	4285.2	3890.9	3768.2	3702.4	3647.7	3608.2	3579.8	3560.0	3540.3	3535.9
15°	4922.7	4478.0	4020.1	3849.2	3755.0	3674.0	3606.1	3560.0	3525.0	3496.5	3494.3
17.5°	5201.0	4659.8	4107.7	3886.5	3748.5	3634.5	3544.7	3481.2	3437.4	3400.1	3395.7
20°	5498.9	4832.9	4147.2	3862.4	3682.7	3544.7	3426.4	3349.7	3299.3	3257.7	3251.1
22.5°	5799.0	4979.7	4142.8	3785.7	3568.8	3406.7	3281.8	3200.8	3141.6	3100.0	3084.6
25°	6086.0	5098.0	4088.0	3663.0	3411.1	3242.4	3115.3	3040.8	2988.2	2937.9	2937.9
27.5°	6344.5	5168.1	3985.1	3514.0	3249.0	3071.5	2970.7	2902.8	2854.6	2821.7	2802.0
30°	6598.7	5201.0	3844.8	3325.6	3078.1	2926.9	2845.8	2806.4	2762.6	2725.4	2721.0
32.5°	6826.5	5194.4	3669.6	3141.6	2915.9	2808.6	2775.7	2745.1	2699.1	2646.5	2633.3
35°	7047.8	5150.6	3461.5	2940.0	2780.1	2738.5	2747.3	2703.4	2620.2	2554.5	2543.5
37.5°	7288.8	5071.7	3233.6	2775.7	2666.2	2705.6	2727.5	2631.1	2495.3	2392.3	2368.3
40°	7567.0	4981.9	2997.0	2611.4	2576.4	2675.0	2675.0	2497.5	2311.3	2247.8	2230.2
42.5°	7893.4	4907.4	2799.8	2473.4	2501.9	2600.5	2589.5	2320.1	2243.4	2210.5	2201.8
45°	8410.5	4881.1	2596.1	2352.9	2440.5	2512.8	2423.0	2258.7	2214.9	2188.6	2179.8
47.5°	9227.6	4911.8	2416.4	2263.1	2370.4	2425.2	2236.8	2217.1	2186.4	2149.2	2144.8
50°	9985.6	4883.3	2289.4	2212.7	2309.1	2320.1	2160.1	2166.7	2149.2	2107.5	2098.8
52.5°	10605.6	4793.5	2208.3	2186.4	2256.5	2136.0	2087.8	2111.9	2105.4	2052.8	2044.0
55°	11287.0	4738.7	2168.9	2186.4	2221.5	1976.1	2019.9	2055.0	2046.2	2009.0	2006.8
57.5°	12112.9	4749.6	2140.4	2193.0	2186.4	1895.0	1952.0	1993.6	1991.4	1980.5	1980.5
60°	12958.6	4754.0	2096.6	2190.8	2144.8	1831.5	1881.9	1941.0	1945.4	1952.0	1952.0
62.5°	13239.0	4563.4	2011.2	2151.4	2052.8	1770.2	1816.2	1897.2	1892.8	1910.4	1912.6
65°	12715.4	4035.4	1884.1	2061.5	1934.5	1726.3	1765.8	1840.3	1816.2	1862.2	1870.9
67.5°	11574.0	3338.8	1686.9	1899.4	1803.0	1680.3	1732.9	1761.4	1717.6	1807.4	1809.6
70°	10003.2	2607.0	1437.2	1669.4	1654.1	1632.1	1706.6	1662.8	1601.5	1711.0	1689.1
72.5°	8364.5	1991.4	1148.0	1364.9	1454.7	1559.8	1660.6	1535.7	1450.3	1483.2	1443.7
75°	6283.2	1472.2	922.3	1069.1	1211.5	1456.9	1619.0	1382.4	1250.9	1220.3	1211.5
77.5°	3202.9	961.8	690.1	799.6	909.2	1316.7	1562.0	1202.7	1036.2	988.0	966.1
80°	1143.6	598.1	486.4	552.1	613.4	1132.6	1364.9	994.6	804.0	795.3	804.0
82.5°	530.2	385.6	326.4	361.5	363.7	755.8	1040.6	742.7	611.2	928.9	784.3
85°	227.8	192.8	184.0	179.6	166.5	337.4	584.9	398.7	622.2	278.2	256.3
87.5°	67.9	76.7	67.9	50.4	37.2	37.2	59.2	21.9	15.3	11.0	11.0
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)