

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: P456039

Luminaire Tested: **GALN-SA7B-730-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456039  
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-730-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 36785 lumens  
Efficiency: N/A  
Efficacy: 128.6 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

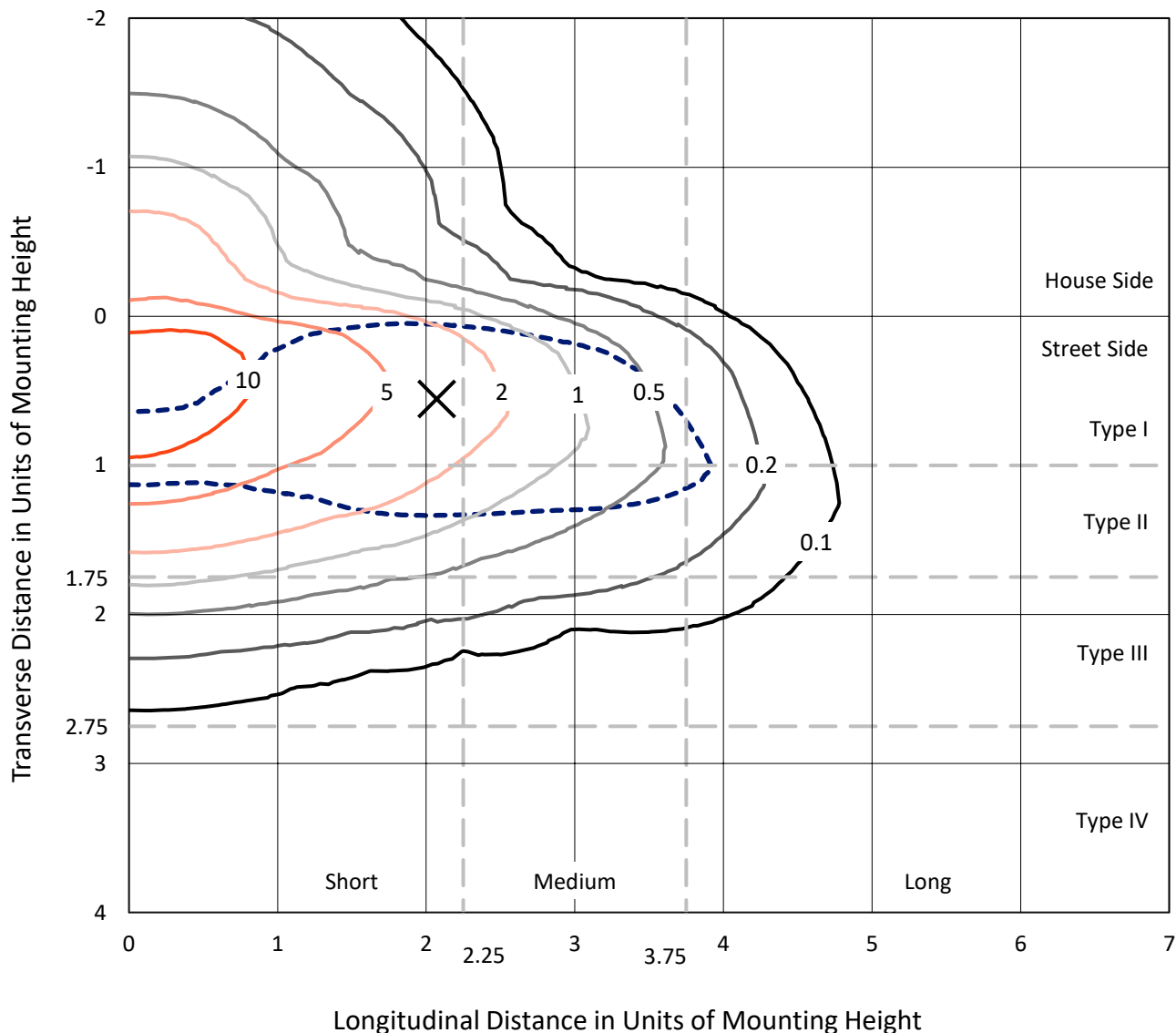
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

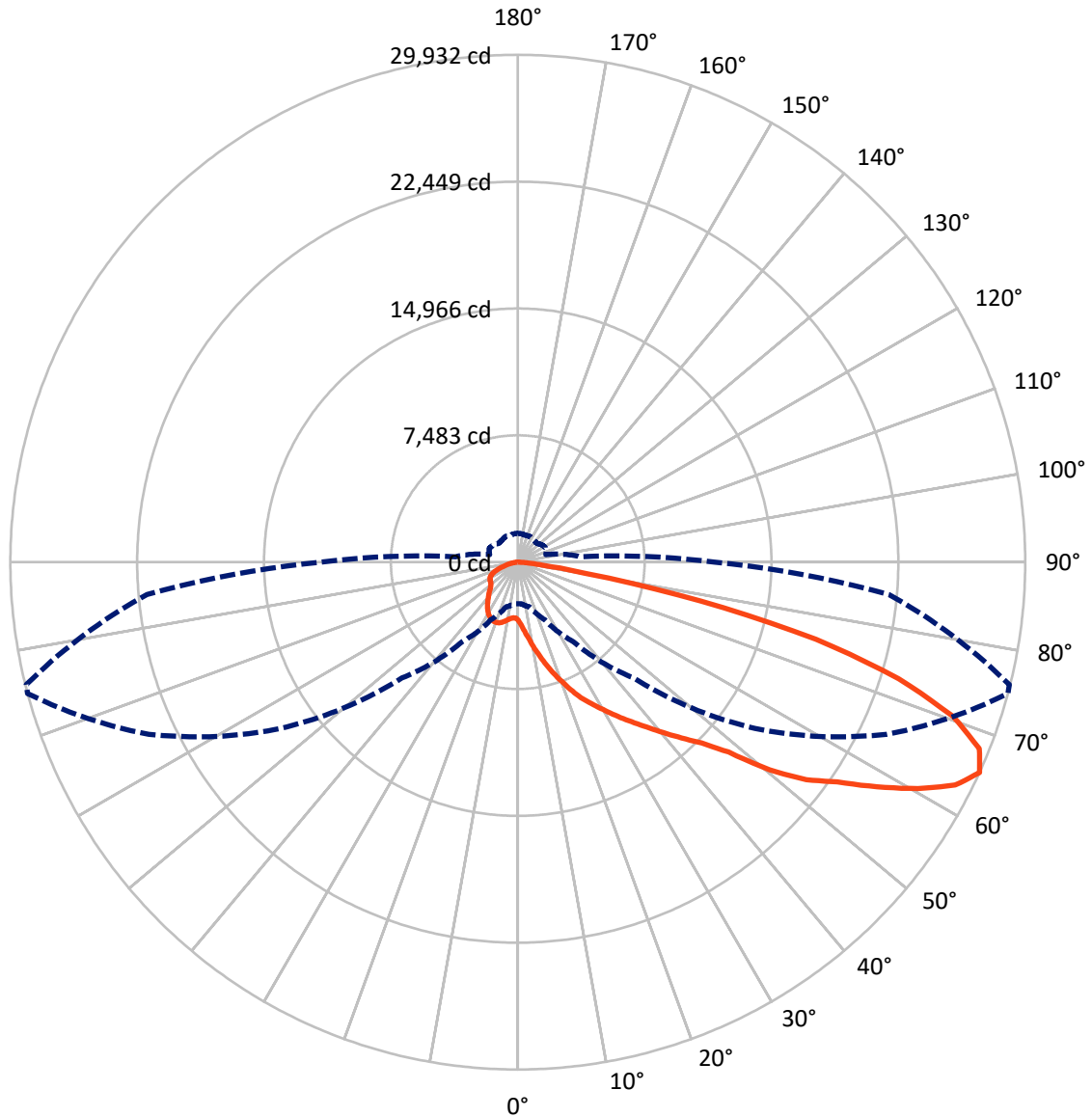
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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
<b>House Side</b>	Lumens	6184.0	0.0	6184.0
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	30601.0	0.0	30601.0
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	36785.0	0.0	36785.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	415.3	1.1
10°-20°	1626.5	4.4
20°-30°	3141.8	8.5
30°-40°	5103.3	13.9
40°-50°	7020.0	19.1
50°-60°	8288.2	22.5
60°-70°	7261.8	19.7
70°-80°	3466.9	9.4
80°-90°	461.3	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°	36785.0	100.0
0°-180°	36785.0	100.0

**Coefficient of Utilization**



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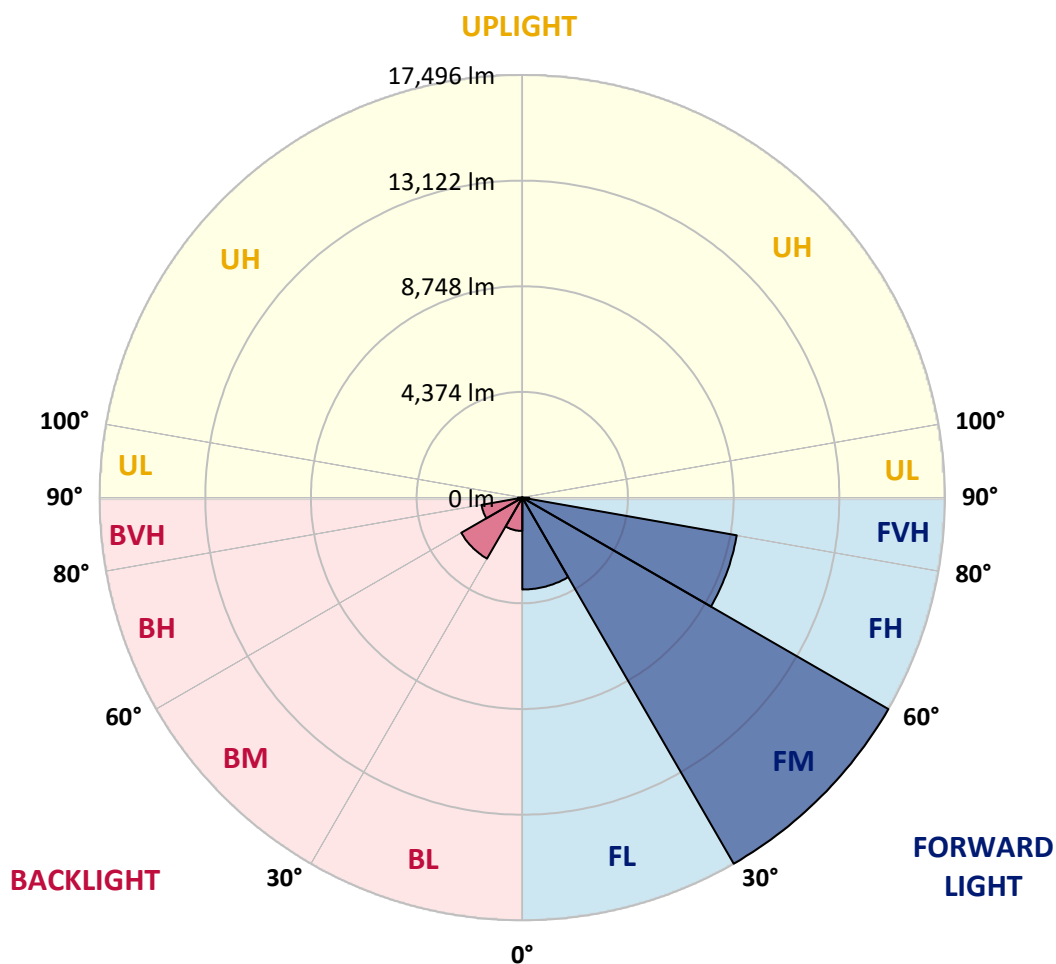
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3803.0	10.3			
FM	(30°-60°)	17495.7	47.6			
FH	(60°-80°)	9014.0	24.5			G4/12000
FVH	(80°-90°)	288.3	0.8			G3/500
BL	(0°-30°)	1380.6	3.8	B3/2500		
BM	(30°-60°)	2915.7	7.9	B3/5000		
BH	(60°-80°)	1714.7	4.7	B3/2500		G3/2500
BVH	(80°-90°)	173.0	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°	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8
2.5°	4541.1	4511.2	4479.2	4391.5	4297.7	4191.9	4040.3	3894.6	3701.1	3695.1	3551.5
5°	5800.1	5780.1	5638.5	5556.7	5339.2	5049.9	4804.5	4423.4	4070.2	4028.3	3749.0
7.5°	6957.3	6879.5	6825.6	6678.0	6462.5	6091.4	5616.5	5101.7	4511.2	4455.3	3992.4
10°	7829.2	7821.2	7793.3	7665.6	7504.0	7134.9	6608.1	5869.9	5069.8	4960.1	4287.7
12.5°	8481.6	8487.6	8483.6	8481.6	8365.9	8052.7	7482.0	6703.9	5634.5	5556.7	4628.9
15°	8910.6	8970.5	8994.4	9094.2	9104.1	8894.6	8403.8	7510.0	6270.9	6155.2	4996.0
17.5°	9193.9	9223.8	9335.6	9505.2	9642.8	9604.9	9168.0	8256.2	6921.4	6727.8	5377.1
20°	9465.3	9517.1	9602.9	9834.4	10077.8	10189.5	9882.3	9020.3	7565.8	7442.1	5798.1
22.5°	10029.9	10103.7	10133.7	10251.4	10458.9	10656.4	10516.7	9752.6	8272.1	8104.5	6245.0
25°	10985.6	11063.4	10979.6	10951.7	11019.5	11117.3	11087.4	10442.9	8938.5	8699.1	6668.0
27.5°	12230.6	12240.6	12077.0	11921.4	11753.8	11703.9	11612.1	11055.4	9517.1	9317.6	7093.0
30°	13567.4	13519.5	13248.2	12966.9	12683.5	12404.2	12140.8	11646.0	10161.6	9932.1	7510.0
32.5°	14808.4	14782.5	14481.2	14044.3	13565.4	13302.1	12769.3	12242.6	10851.9	10630.5	7938.9
35°	15738.2	15776.1	15444.9	14968.0	14445.3	14211.9	13539.5	12869.1	11566.2	11324.8	8405.8
37.5°	16398.6	16378.7	16085.4	15672.4	15213.5	15009.9	14439.3	13553.4	12334.4	12102.9	8916.6
40°	16634.0	16622.1	16404.6	16103.3	15812.0	15740.2	15381.1	14291.7	13214.3	12942.9	9531.1
42.5°	16484.4	16510.3	16366.7	16284.9	16231.0	16282.9	16316.8	15259.3	14174.0	13924.6	10197.5
45°	16025.5	16011.5	15991.6	16125.3	16428.5	16769.7	17242.6	16173.2	15217.5	15017.9	11091.4
47.5°	15205.5	15305.2	15355.1	15724.2	16386.6	17194.7	18308.0	17398.2	16731.8	16558.2	12454.1
50°	14058.2	14138.0	14433.3	15089.8	16077.4	17354.3	19349.5	19401.4	19257.7	18932.5	13934.5
52.5°	12266.5	12390.2	12998.8	14201.9	15442.9	17288.5	19980.0	21119.3	21308.8	21065.4	15393.0
55°	10261.4	10434.9	11077.4	12655.6	14569.0	16929.3	20415.0	22114.9	22871.1	22645.6	16797.7
57.5°	8298.1	8481.6	9142.0	10670.4	13044.7	16135.2	20700.3	23224.2	24998.0	24704.7	18545.5
60°	6219.1	6410.6	6977.2	8551.5	10873.9	14583.0	20506.7	24185.9	27122.9	26997.2	20295.3
62.5°	4012.4	4223.9	4716.7	6019.5	8357.9	12462.1	19471.2	24716.6	28962.4	28810.8	21572.2
65°	2444.1	2468.1	2739.4	3737.0	5720.3	9648.8	17102.9	24012.3	29932.1	29886.2	21961.3
67.5°	1580.2	1618.1	1741.8	2238.6	3429.8	6701.9	13675.2	21687.9	29365.5	29349.5	21157.2
70°	1334.8	1346.8	1402.6	1510.4	1993.2	4064.2	9602.9	17982.8	27212.6	27212.6	19223.8
72.5°	1193.1	1209.1	1229.0	1263.0	1422.6	2302.5	5730.2	13998.4	23495.6	23651.2	16362.7
75°	1083.4	1079.4	1091.4	1097.4	1213.1	1504.4	2962.9	10353.1	18176.3	17865.1	11849.5
77.5°	927.8	933.8	927.8	953.7	1071.4	1145.2	1504.4	6947.3	11015.5	10612.5	5947.7
80°	762.2	772.1	782.1	798.1	915.8	869.9	903.8	3166.4	4074.2	3988.4	1837.6
82.5°	572.6	586.6	602.6	640.5	720.3	574.6	570.6	1352.8	1470.5	1346.8	676.4
85°	231.4	273.3	413.0	450.9	452.9	315.2	351.2	564.6	600.6	586.6	265.4
87.5°	53.9	63.8	133.7	201.5	185.6	117.7	129.7	183.6	209.5	193.5	89.8
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°	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8	3417.8
2.5°	3485.6	3415.8	3296.1	3204.3	3138.5	3080.6	3044.7	3022.7	3014.8	3012.8	3014.8
5°	3603.3	3479.6	3290.1	3170.4	3104.5	3066.6	3044.7	3042.7	3044.7	3046.7	3040.7
7.5°	3765.0	3587.4	3340.0	3228.2	3178.4	3150.4	3140.5	3136.5	3138.5	3136.5	3136.5
10°	3980.4	3737.0	3437.7	3322.0	3280.1	3248.2	3232.2	3222.3	3214.3	3206.3	3202.3
12.5°	4217.9	3902.6	3543.5	3431.8	3371.9	3322.0	3286.1	3260.2	3242.2	3224.3	3220.3
15°	4483.2	4078.2	3661.2	3505.6	3419.8	3346.0	3284.1	3242.2	3210.3	3184.4	3182.4
17.5°	4736.6	4243.8	3741.0	3539.5	3413.8	3310.0	3228.2	3170.4	3130.5	3096.6	3092.6
20°	5008.0	4401.4	3776.9	3517.6	3353.9	3228.2	3120.5	3050.7	3004.8	2966.9	2960.9
22.5°	5281.3	4535.1	3772.9	3447.7	3250.2	3102.5	2988.8	2915.0	2861.1	2823.2	2809.3
25°	5542.7	4642.8	3723.1	3336.0	3106.5	2952.9	2837.2	2769.3	2721.5	2675.6	2675.6
27.5°	5778.1	4706.7	3629.3	3200.3	2958.9	2797.3	2705.5	2643.7	2599.8	2569.8	2551.9
30°	6009.6	4736.6	3501.6	3028.7	2803.3	2665.6	2591.8	2555.9	2516.0	2482.0	2478.0
32.5°	6217.1	4730.6	3342.0	2861.1	2655.6	2557.9	2527.9	2500.0	2458.1	2410.2	2398.2
35°	6418.6	4690.7	3152.4	2677.6	2531.9	2494.0	2502.0	2462.1	2386.3	2326.4	2316.4
37.5°	6638.1	4618.9	2944.9	2527.9	2428.2	2464.1	2484.0	2396.2	2272.5	2178.8	2156.8
40°	6891.4	4537.1	2729.4	2378.3	2346.4	2436.1	2436.1	2274.5	2104.9	2047.1	2031.1
42.5°	7188.7	4469.3	2549.9	2252.6	2278.5	2368.3	2358.3	2112.9	2043.1	2013.2	2005.2
45°	7659.6	4445.3	2364.3	2142.9	2222.7	2288.5	2206.7	2057.1	2017.2	1993.2	1985.2
47.5°	8403.8	4473.3	2200.7	2061.0	2158.8	2208.7	2037.1	2019.2	1991.2	1957.3	1953.3
50°	9094.2	4447.3	2085.0	2015.2	2102.9	2112.9	1967.3	1973.3	1957.3	1919.4	1911.4
52.5°	9658.8	4365.5	2011.2	1991.2	2055.1	1945.3	1901.4	1923.4	1917.4	1869.5	1861.5
55°	10279.3	4315.6	1975.3	1991.2	2023.1	1799.7	1839.6	1871.5	1863.5	1829.6	1827.6
57.5°	11031.5	4325.6	1949.3	1997.2	1991.2	1725.9	1777.7	1815.6	1813.6	1803.7	1803.7
60°	11801.7	4329.6	1909.4	1995.2	1953.3	1668.0	1713.9	1767.8	1771.7	1777.7	1777.7
62.5°	12057.0	4156.0	1831.6	1959.3	1869.5	1612.1	1654.0	1727.9	1723.9	1739.8	1741.8
65°	11580.2	3675.2	1715.9	1877.5	1761.8	1572.2	1608.1	1676.0	1654.0	1695.9	1703.9
67.5°	10540.7	3040.7	1536.3	1729.8	1642.1	1530.3	1578.2	1604.1	1564.2	1646.0	1648.0
70°	9110.1	2374.3	1308.9	1520.3	1506.4	1486.4	1554.3	1514.4	1458.5	1558.3	1538.3
72.5°	7617.7	1813.6	1045.5	1243.0	1324.8	1420.6	1512.4	1398.6	1320.8	1350.8	1314.8
75°	5722.3	1340.8	840.0	973.7	1103.3	1326.8	1474.5	1259.0	1139.3	1111.3	1103.3
77.5°	2917.0	875.9	628.5	728.3	828.0	1199.1	1422.6	1095.4	943.7	899.8	879.9
80°	1041.5	544.7	442.9	502.8	558.7	1031.5	1243.0	905.8	732.2	724.3	732.2
82.5°	482.8	351.2	297.3	329.2	331.2	688.3	947.7	676.4	556.7	846.0	714.3
85°	207.5	175.6	167.6	163.6	151.6	307.3	532.7	363.1	566.6	253.4	233.4
87.5°	61.9	69.8	61.9	45.9	33.9	33.9	53.9	20.0	14.0	10.0	10.0
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)