

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: P456037

Luminaire Tested: **GALN-SA7B-730-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456037  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
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-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36300 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

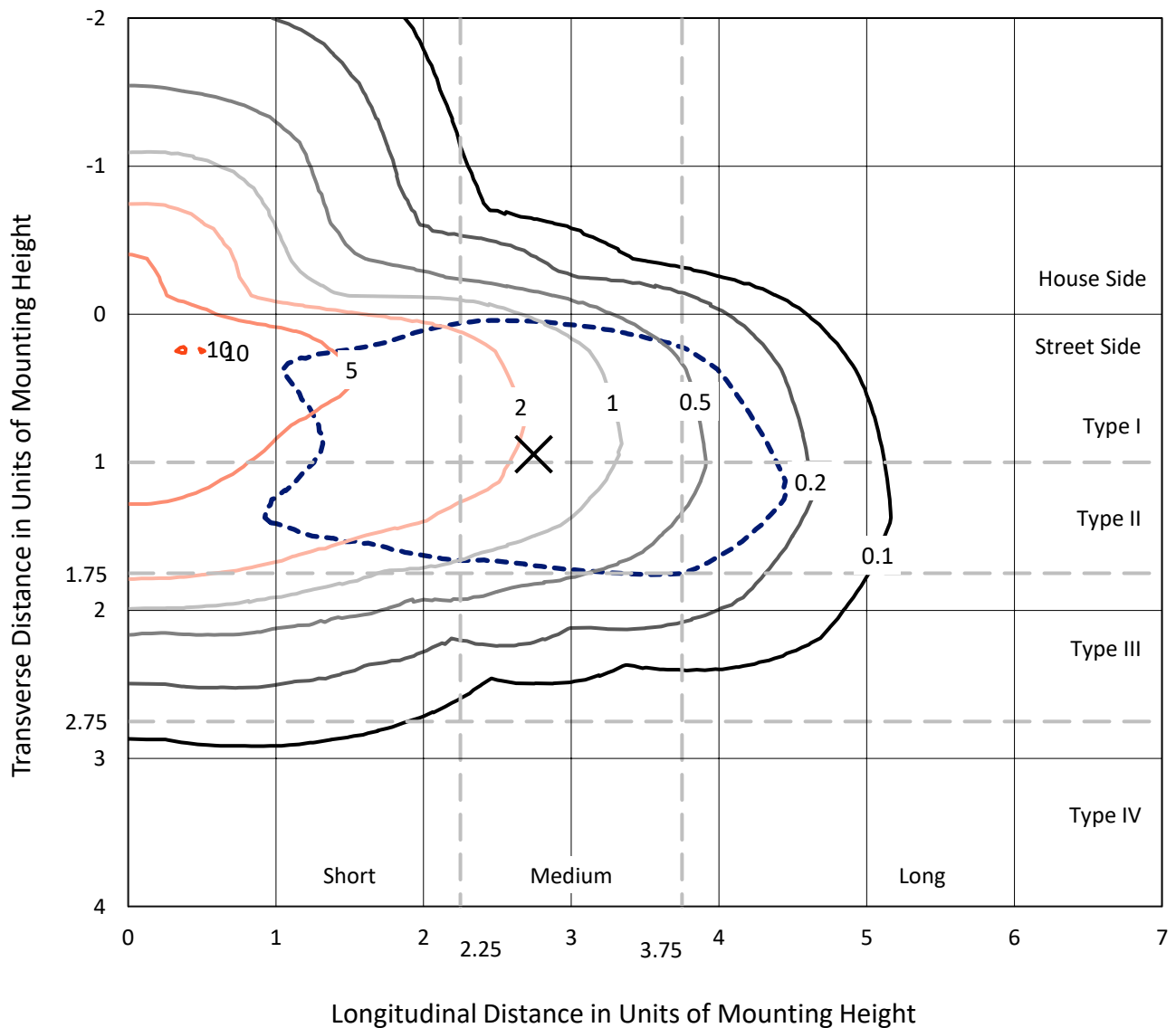
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

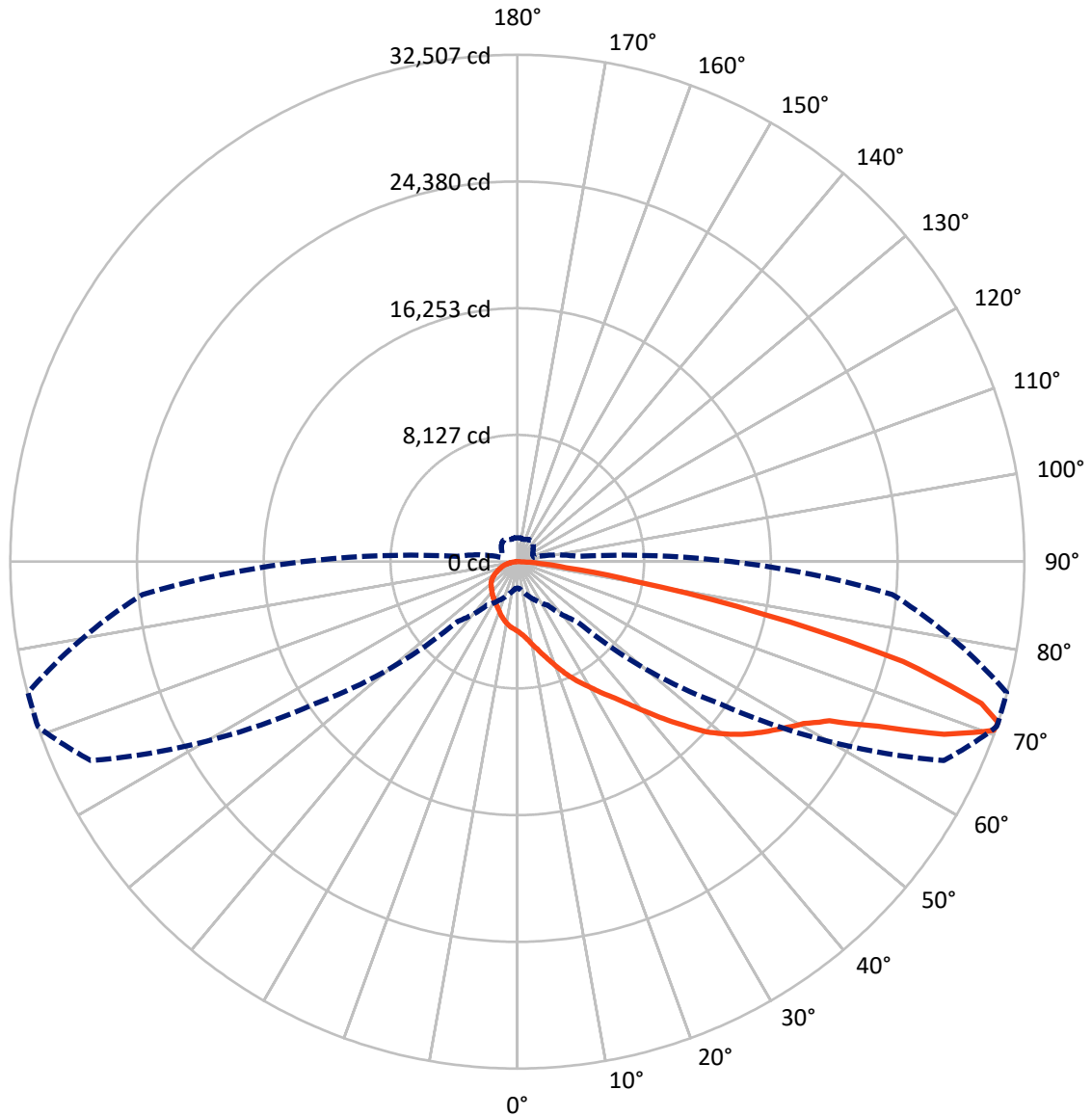
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6528.5	0.0	6528.5
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	29771.5	0.0	29771.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	36300.0	0.0	36300.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	447.3	1.2
10°-20°	1453.3	4.0
20°-30°	2539.8	7.0
30°-40°	3777.6	10.4
40°-50°	5565.8	15.3
50°-60°	7792.2	21.5
60°-70°	8715.4	24.0
70°-80°	5323.7	14.7
80°-90°	684.8	1.9
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°	36300.0	100.0
0°-180°	36300.0	100.0

**Coefficient of Utilization**



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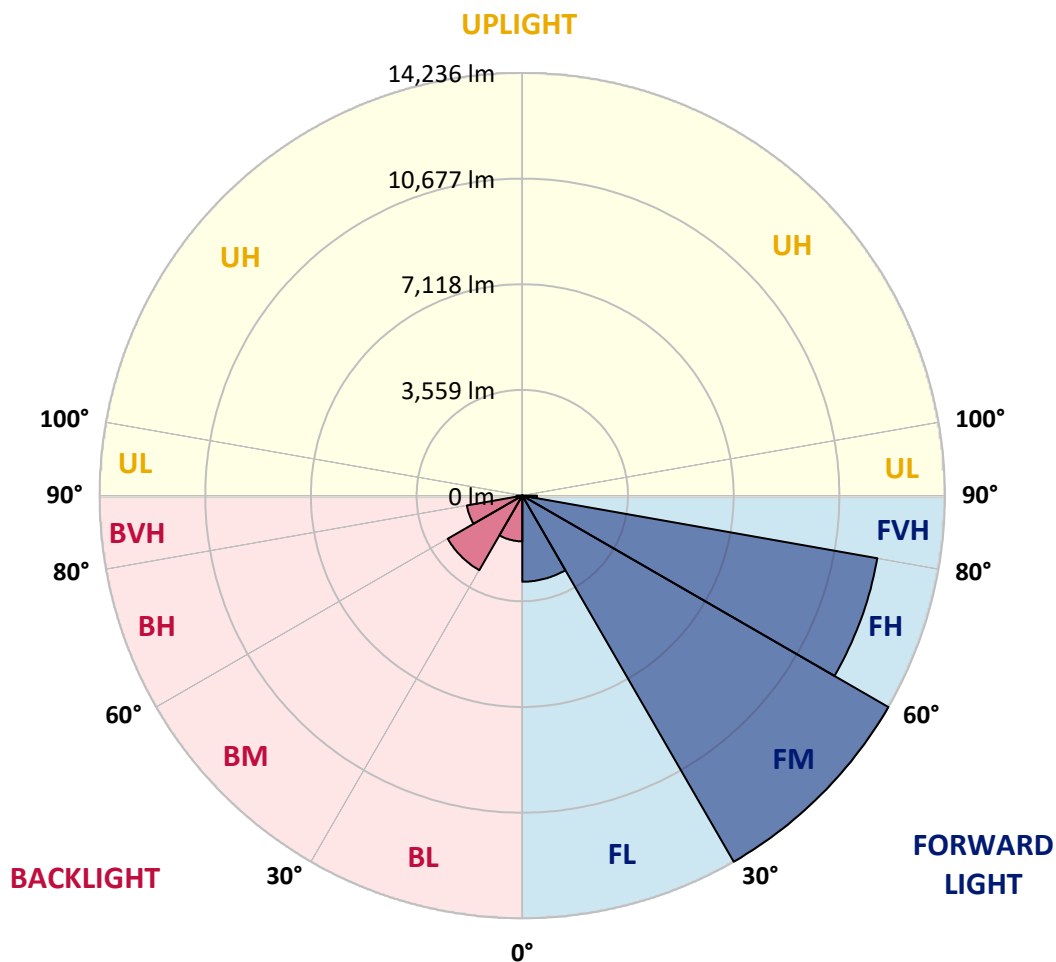
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2900.4	8.0			
FM (30°-60°)	14236.1	39.2			
FH (60°-80°)	12142.2	33.4			G5
FVH (80°-90°)	492.8	1.4			G3/500
BL (0°-30°)	1540.0	4.2	B3/2500		
BM (30°-60°)	2899.5	8.0	B3/5000		
BH (60°-80°)	1896.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	192.1	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-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1
2.5°	4945.9	4922.0	4924.0	4890.0	4846.2	4798.3	4730.4	4670.6	4622.7	4594.8	4513.0
5°	5480.6	5456.7	5426.7	5352.9	5321.0	5203.3	5053.6	4918.0	4814.2	4756.4	4592.8
7.5°	5913.5	5907.6	5899.6	5857.7	5775.9	5612.3	5484.6	5249.2	5095.5	4985.8	4706.5
10°	6180.9	6190.9	6196.9	6204.8	6170.9	6085.1	5909.6	5612.3	5416.8	5277.1	4854.1
12.5°	6316.6	6326.5	6360.5	6434.3	6480.2	6470.2	6326.5	6035.2	5765.9	5582.4	5011.7
15°	6400.4	6416.3	6476.2	6573.9	6727.6	6825.3	6755.5	6486.1	6190.9	5973.4	5199.3
17.5°	6492.1	6510.1	6575.9	6715.6	6917.1	7128.6	7204.4	6973.0	6651.7	6392.4	5408.8
20°	6544.0	6567.9	6661.7	6845.3	7080.7	7387.9	7639.3	7517.6	7166.5	6879.2	5650.2
22.5°	6627.8	6647.7	6727.6	6923.1	7204.4	7589.4	8074.3	8048.3	7739.1	7368.0	5915.5
25°	6855.2	6887.2	6927.1	7044.8	7316.1	7794.9	8435.4	8614.9	8293.7	7878.7	6158.9
27.5°	7284.2	7310.1	7308.1	7324.1	7477.7	7972.5	8748.6	9175.6	8844.4	8395.5	6394.4
30°	7773.0	7783.0	7791.0	7755.0	7789.0	8154.1	9035.9	9730.2	9399.0	8926.2	6599.9
32.5°	8367.5	8387.5	8319.7	8227.9	8200.0	8423.4	9273.3	10284.9	10055.4	9464.9	6803.4
35°	9069.8	9121.7	8984.0	8822.4	8708.7	8810.5	9592.5	10851.5	10727.8	10153.2	7072.7
37.5°	9871.9	9935.7	9808.0	9490.8	9329.2	9357.1	10009.5	11551.8	11577.7	10937.3	7473.7
40°	10528.3	10612.1	10616.0	10167.1	9921.7	9953.7	10538.2	12305.9	12603.2	11906.9	7946.6
42.5°	10961.2	11043.0	11128.8	10865.4	10608.1	10789.6	11154.7	13123.9	13756.4	13084.0	8607.0
45°	11436.0	11509.9	11557.7	11438.0	11294.4	11765.2	11898.9	13993.8	14985.4	14398.8	9329.2
47.5°	11986.7	12068.5	12114.4	12000.7	11946.8	12621.1	12701.0	14805.8	16298.2	15675.7	10127.2
50°	12720.9	12782.8	12758.8	12687.0	12675.0	13277.5	13471.1	15565.9	17381.5	17050.3	10955.2
52.5°	13634.7	13708.5	13734.4	13632.7	13586.8	13746.4	14091.6	16258.3	18367.1	18231.4	11839.1
55°	14187.3	14305.0	14700.1	14859.7	14969.4	14352.9	14759.9	17022.4	19250.9	19476.4	12788.7
57.5°	13479.0	13630.7	14514.5	15312.6	16344.0	15869.2	15707.6	17820.4	20134.8	20683.4	13926.0
60°	11751.3	11785.2	12924.4	14394.8	16469.7	17818.4	17684.8	19089.3	21092.4	21900.5	15424.3
62.5°	8152.1	8223.9	9570.6	11916.9	14917.5	18520.7	21048.5	21280.0	22465.1	23722.0	17620.9
65°	4203.7	4110.0	5337.0	7489.7	11246.5	16852.8	23773.9	25308.1	25441.8	26571.0	20713.4
67.5°	2587.7	2629.6	3204.2	4373.3	6649.7	12248.1	23488.6	30230.1	29525.8	30068.5	23584.3
70°	1943.2	1995.1	2390.2	2992.7	4054.1	7002.9	18889.8	31423.2	32406.8	32267.1	24458.2
71°	1689.9	1743.7	2154.7	2723.3	3405.7	5404.8	15915.1	30174.2	32506.5	32482.6	24129.0
72.5°	1440.5	1474.4	1795.6	2306.4	2871.0	3788.7	11956.8	27061.8	31119.9	31916.0	22953.9
75°	1131.2	1157.2	1300.8	1759.7	2260.5	2326.3	6416.3	20288.4	25559.5	27075.8	19109.3
77.5°	921.7	939.7	1013.5	1306.8	1743.7	1648.0	3365.8	13205.7	16012.9	17539.1	11256.5
80°	732.2	752.2	796.1	885.8	1306.8	1175.1	1606.1	6691.6	7735.1	7719.1	4493.0
82.5°	568.6	574.6	626.5	650.4	893.8	834.0	869.9	2833.1	3138.3	3242.1	1622.0
85°	359.1	377.1	554.6	498.8	534.7	488.8	429.0	1125.2	1386.6	1366.7	648.4
87.5°	109.7	115.7	187.5	211.5	237.4	213.5	157.6	331.2	405.0	438.9	161.6
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°	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1	4455.1
2.5°	4481.0	4459.1	4381.3	4317.4	4257.6	4191.8	4135.9	4119.9	4106.0	4100.0	4098.0
5°	4522.9	4457.1	4303.5	4177.8	4078.0	3986.3	3928.4	3902.5	3876.5	3876.5	3884.5
7.5°	4582.8	4463.1	4225.7	4038.1	3912.4	3826.6	3784.7	3780.8	3786.7	3792.7	3794.7
10°	4648.6	4459.1	4111.9	3878.5	3766.8	3726.9	3728.9	3762.8	3794.7	3818.7	3822.7
12.5°	4712.5	4435.2	3978.3	3728.9	3657.1	3665.0	3720.9	3796.7	3858.6	3892.5	3894.5
15°	4784.3	4397.3	3816.7	3587.2	3563.3	3625.1	3728.9	3844.6	3938.4	3994.2	4000.2
17.5°	4844.2	4333.4	3647.1	3449.6	3479.5	3593.2	3736.9	3886.5	4000.2	4070.1	4082.0
20°	4912.0	4251.6	3471.5	3317.9	3403.7	3557.3	3720.9	3882.5	4000.2	4068.1	4084.0
22.5°	4965.9	4135.9	3303.9	3210.2	3335.8	3513.4	3667.0	3796.7	3892.5	3928.4	3952.3
25°	4987.8	3990.2	3146.3	3122.4	3282.0	3441.6	3545.3	3619.2	3649.1	3645.1	3655.1
27.5°	4975.8	3822.7	3010.6	3052.5	3214.1	3329.9	3381.7	3375.7	3321.9	3272.0	3295.9
30°	4926.0	3623.1	2896.9	2980.7	3126.4	3190.2	3182.2	3104.4	3002.7	2908.9	2914.9
32.5°	4836.2	3407.7	2791.2	2898.9	3002.7	3030.6	2976.7	2875.0	2729.3	2607.6	2589.7
35°	4760.4	3202.2	2697.4	2805.1	2879.0	2865.0	2813.1	2681.4	2549.8	2442.0	2424.1
37.5°	4748.4	3026.6	2607.6	2699.4	2741.3	2721.3	2657.5	2545.8	2497.9	2416.1	2406.1
40°	4812.2	2902.9	2515.8	2587.7	2607.6	2591.7	2521.8	2458.0	2501.9	2481.9	2481.9
42.5°	4985.8	2837.1	2434.0	2475.9	2491.9	2503.9	2454.0	2400.1	2454.0	2362.2	2332.3
45°	5261.1	2839.1	2360.2	2366.2	2414.1	2456.0	2422.1	2342.3	2314.3	2130.8	2094.9
47.5°	5666.1	2906.9	2300.4	2262.5	2348.3	2418.1	2370.2	2254.5	2130.8	2009.1	1987.1
50°	6139.0	3028.6	2246.5	2154.7	2260.5	2370.2	2334.3	2198.6	2070.9	1997.1	1983.2
52.5°	6663.7	3182.2	2180.7	2035.0	2152.7	2348.3	2342.3	2190.6	2015.1	1965.2	1953.2
55°	7312.1	3333.9	2098.9	1895.4	2057.0	2330.3	2320.3	2124.8	2003.1	1967.2	1963.2
57.5°	8066.3	3553.3	1981.2	1753.7	1947.2	2256.5	2234.5	2084.9	1963.2	1937.3	1935.3
60°	9281.3	3894.5	1813.6	1624.0	1835.5	2126.8	2154.7	2017.1	1899.4	1893.4	1891.4
62.5°	10879.4	4373.3	1640.0	1490.4	1705.8	1959.2	2039.0	1925.3	1831.5	1861.4	1865.4
65°	13086.0	4776.3	1460.4	1376.6	1562.2	1797.6	1929.3	1839.5	1755.7	1813.6	1813.6
67.5°	14524.5	4784.3	1296.8	1258.9	1416.5	1661.9	1813.6	1737.8	1657.9	1755.7	1759.7
70°	14225.2	4191.8	1161.2	1135.2	1274.9	1516.3	1685.9	1626.0	1534.2	1622.0	1590.1
71°	13742.4	3862.6	1107.3	1087.3	1219.0	1446.5	1626.0	1576.1	1484.4	1542.2	1524.3
72.5°	12972.3	3353.8	1019.5	1023.5	1135.2	1358.7	1542.2	1490.4	1398.6	1430.5	1424.5
75°	10965.2	2928.8	871.9	889.8	975.6	1209.0	1374.6	1334.7	1241.0	1241.0	1235.0
77.5°	6855.2	2047.0	724.2	734.2	828.0	1035.5	1181.1	1147.2	1057.4	1027.5	1019.5
80°	2557.7	1057.4	566.6	578.6	636.4	816.0	977.6	945.7	853.9	820.0	788.1
82.5°	967.6	530.7	417.0	407.0	468.9	622.5	766.1	728.2	656.4	574.6	550.7
85°	365.1	263.4	255.4	247.4	275.3	369.1	474.8	466.9	391.0	333.2	327.2
87.5°	95.8	85.8	99.8	73.8	77.8	69.8	71.8	29.9	14.0	6.0	4.0
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)