

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: P455385

Luminaire Tested: **GALN-SA6C-750-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455385  
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-750-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 42098 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

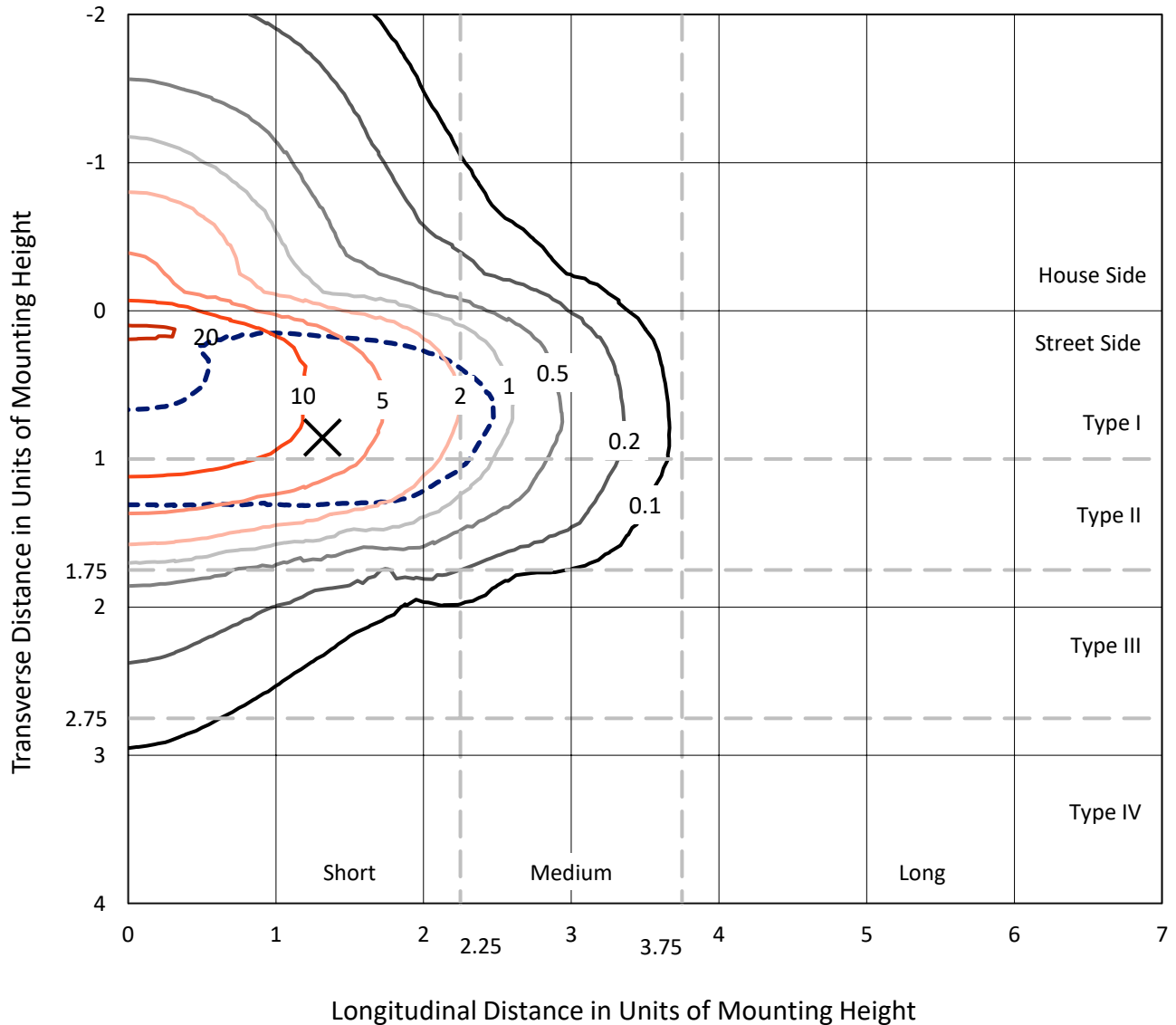
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

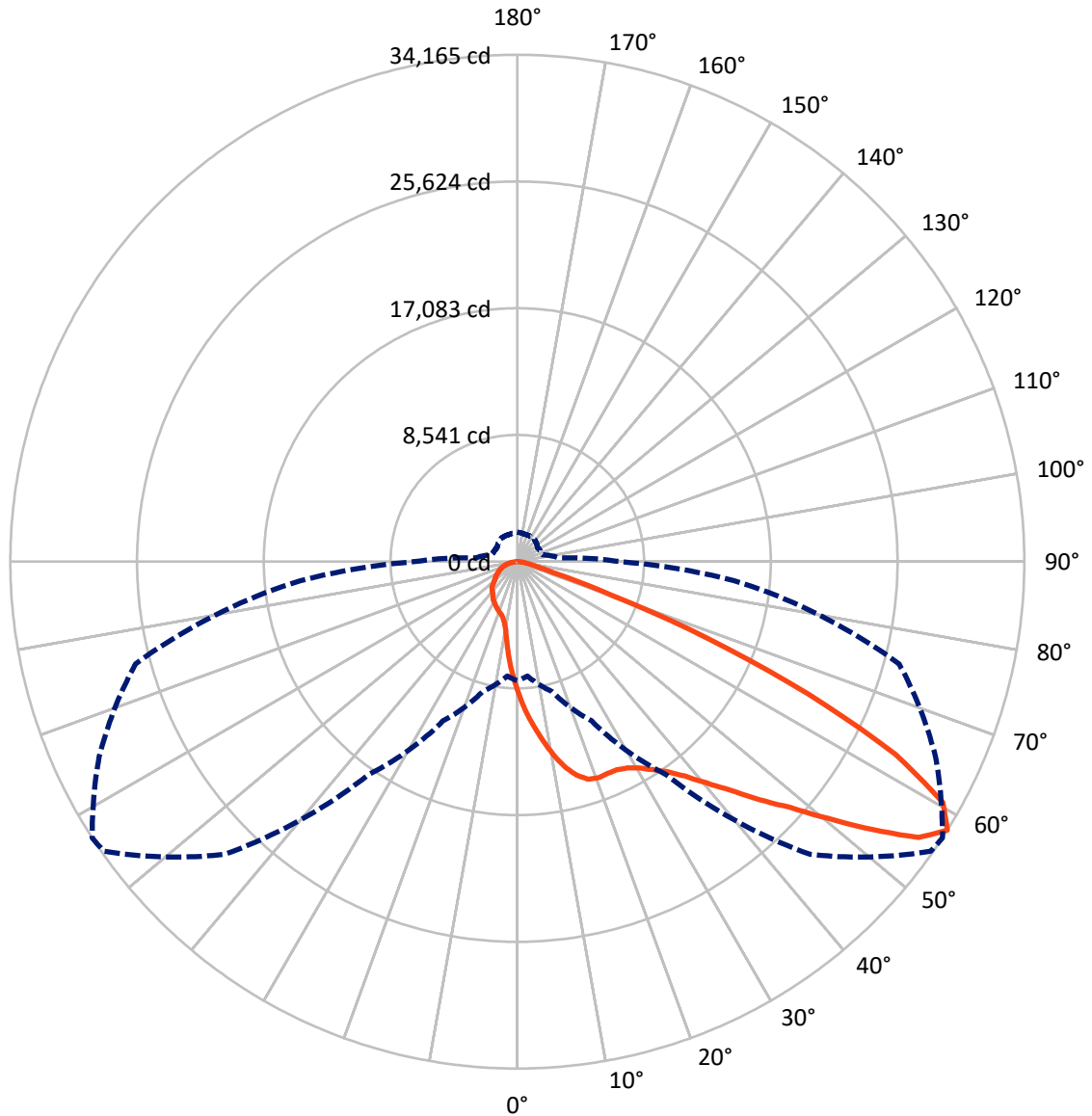
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.5 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
<b>House Side</b>	Lumens	6401.9	0.0	6401.9
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	35696.1	0.0	35696.1
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	42098.0	0.0	42098.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	850.0	2.0
10°-20°	2505.1	6.0
20°-30°	4159.7	9.9
30°-40°	6265.7	14.9
40°-50°	9407.4	22.3
50°-60°	10544.5	25.0
60°-70°	6171.2	14.7
70°-80°	1825.4	4.3
80°-90°	369.0	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°	42098.0	100.0
0°-180°	42098.0	100.0

**Coefficient of Utilization**



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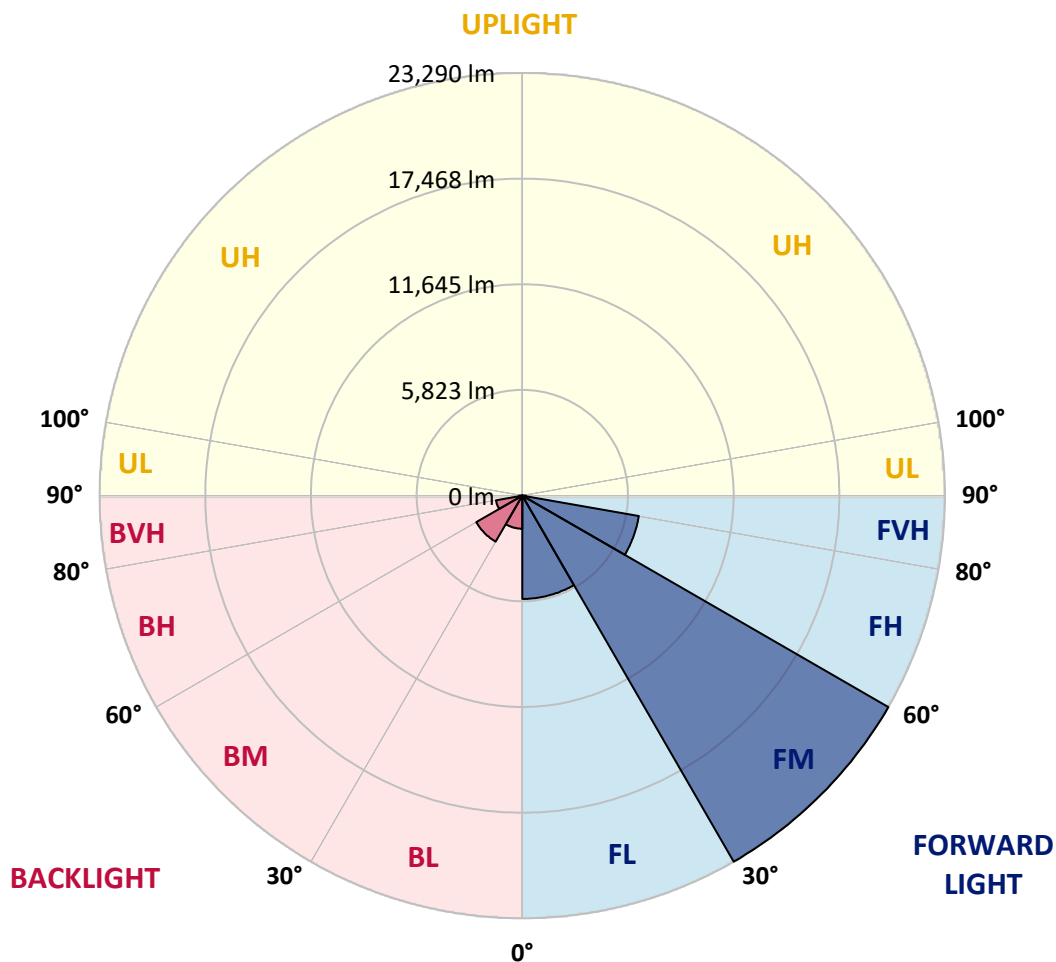
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5690.7	13.5			
FM	(30°-60°)	23290.5	55.3			
FH	(60°-80°)	6523.5	15.5			G3/7500
FVH	(80°-90°)	191.4	0.5			G2/225
BL	(0°-30°)	1824.1	4.3	B3/2500		
BM	(30°-60°)	2927.2	7.0	B3/5000		
BH	(60°-80°)	1473.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	177.5	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°	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3
2.5°	10989.7	10869.9	10775.4	10692.4	10584.1	10291.5	9998.8	9994.2	9761.5	9402.0	9033.3
5°	12780.2	12618.9	12639.7	12381.6	12123.5	11699.5	11079.6	11047.3	10551.9	9879.0	9194.6
7.5°	13946.3	13948.6	13884.0	13736.6	13457.7	12976.1	12273.3	12114.3	11425.2	10404.4	9378.9
10°	13886.3	13948.6	14056.9	14183.6	14268.9	14031.5	13390.9	13197.3	12300.9	11040.4	9584.0
12.5°	13089.0	13185.8	13340.2	13658.2	14172.1	14563.8	14344.9	14188.2	13314.9	11674.1	9809.9
15°	12591.3	12648.9	12734.1	12948.5	13501.5	14439.4	15006.3	14923.3	14271.2	12390.8	10063.3
17.5°	12439.2	12496.8	12524.4	12655.8	13049.8	14010.8	15266.7	15414.2	15119.2	13049.8	10319.1
20°	12591.3	12618.9	12618.9	12697.3	13006.1	13759.6	15255.2	15552.4	15815.1	13840.3	10558.8
22.5°	12989.9	13001.5	12985.3	13013.0	13243.4	13828.7	15146.9	15515.6	16377.4	14510.8	10745.4
25°	13637.5	13655.9	13549.9	13485.4	13653.6	14132.9	15206.8	15545.5	16817.6	15151.5	10869.9
27.5°	14372.6	14395.6	14266.6	14116.8	14195.1	14508.5	15441.8	15746.0	17147.1	15782.9	10948.2
30°	15273.6	15282.8	15066.2	14886.5	14835.8	15068.5	15842.8	16126.2	17557.3	16527.2	11065.8
32.5°	16195.4	16264.5	15985.7	15732.2	15646.9	15718.3	16435.0	16709.2	18045.8	17326.8	11254.7
35°	17449.0	17460.5	17126.3	16817.6	16536.4	16628.6	17193.2	17391.3	18721.0	18250.9	11522.0
37.5°	19013.6	19119.7	18658.8	18082.7	17737.0	17603.4	18110.3	18326.9	19668.1	19384.7	11925.3
40°	20751.2	20790.3	20396.3	20036.8	19405.4	19018.3	19368.5	19603.6	20836.4	20737.3	12393.1
42.5°	21843.5	21928.7	21958.7	21921.8	21447.1	20797.3	20930.9	21041.5	22219.1	22007.1	12872.4
45°	22212.2	22338.9	22767.5	23675.5	23726.2	23085.5	22774.4	22880.4	23726.2	23288.3	13331.0
47.5°	21601.5	21818.1	22608.5	24470.5	25864.6	25913.0	24975.1	24742.4	25099.6	24350.7	13662.8
50°	20023.0	20069.1	21278.9	23975.0	26867.1	28616.1	27646.0	27212.7	26403.9	25136.5	13891.0
52.5°	17580.3	17633.3	18647.2	21672.9	26249.5	30505.7	30770.7	29996.4	27728.9	25747.1	14040.7
55°	13049.8	13356.3	14471.7	17396.0	23322.9	30328.3	33254.9	32814.7	29330.5	26231.0	14275.8
57.5°	8023.9	7742.8	9065.5	11835.4	17541.1	27890.2	34022.2	34165.1	31093.3	26636.6	14669.8
60°	3691.7	3747.0	4293.1	6104.4	10692.4	21818.1	32045.1	32948.4	32068.1	26622.8	14768.9
62.5°	2544.1	2493.4	2355.1	2680.0	4876.1	13798.8	27067.5	28597.7	30114.0	25795.5	14374.9
65°	2274.4	2223.8	1956.4	1866.6	2239.9	6014.5	19677.3	21608.4	25355.4	23707.7	13393.2
67.5°	2124.7	2055.5	1779.0	1603.9	1599.3	2394.3	11602.7	13927.8	18806.3	20043.7	11605.0
70°	1968.0	1912.7	1638.4	1444.9	1361.9	1504.8	5099.6	6675.9	12211.0	14444.0	9040.2
72.5°	1811.3	1746.7	1500.2	1292.8	1184.5	1126.9	1954.1	2541.8	6899.4	8660.0	5542.1
75°	1583.1	1550.9	1341.2	1170.6	1053.1	910.2	1239.8	1414.9	3299.9	3977.4	2781.4
77.5°	1384.9	1350.4	1191.4	1023.2	937.9	739.7	880.3	960.9	1391.9	1613.1	1255.9
80°	1013.9	1048.5	1004.7	903.3	836.5	580.7	592.2	659.1	827.3	914.8	767.4
82.5°	642.9	707.5	774.3	695.9	633.7	458.6	410.2	435.5	564.6	599.1	341.1
85°	269.6	274.2	449.4	424.0	361.8	271.9	246.6	260.4	301.9	315.7	159.0
87.5°	103.7	101.4	159.0	147.5	112.9	78.3	78.3	87.6	119.8	110.6	50.7
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°	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3	8844.3
2.5°	8874.3	8710.7	8385.7	7982.5	7687.5	7355.7	7063.0	6853.3	6775.0	6738.1	6668.9
5°	8867.4	8544.7	7871.8	7166.7	6599.8	6019.1	5528.3	5210.3	5182.6	4970.6	4949.9
7.5°	8869.7	8376.5	7305.0	6268.0	5403.8	4809.3	4403.7	4297.7	4171.0	4138.7	4154.8
10°	8876.6	8162.2	6696.6	5378.5	4542.0	4152.5	4000.4	3959.0	3963.6	3977.4	3979.7
12.5°	8885.8	7954.8	6065.2	4703.3	4058.1	3896.7	3880.6	3917.5	3956.7	3986.6	3993.5
15°	8897.3	7717.5	5449.9	4159.5	3816.1	3802.3	3855.3	3917.5	3972.8	4016.6	4023.5
17.5°	8883.5	7440.9	4933.7	3825.3	3682.4	3749.3	3836.8	3915.2	3965.9	4007.4	4012.0
20°	8851.2	7132.1	4436.0	3590.3	3599.5	3707.8	3802.3	3876.0	3931.3	3952.1	3968.2
22.5°	8726.8	6763.4	4002.8	3408.2	3500.4	3650.2	3763.1	3806.9	3744.7	3700.9	3712.4
25°	8514.8	6284.1	3599.5	3260.7	3410.5	3569.5	3684.7	3578.7	3528.0	3509.6	3518.8
27.5°	8249.8	5758.7	3295.3	3106.3	3295.3	3479.7	3447.4	3429.0	3405.9	3376.0	3382.9
30°	7964.0	5244.8	3037.2	2986.5	3170.9	3276.9	3290.7	3320.6	3295.3	3249.2	3267.6
32.5°	7699.0	4760.9	2841.3	2885.1	3083.3	3067.2	3170.9	3205.4	3087.9	2933.5	2940.4
35°	7473.2	4311.5	2693.8	2786.0	2933.5	2940.4	3044.1	2924.3	2797.5	2723.8	2728.4
37.5°	7302.7	3961.3	2597.1	2700.8	2742.2	2829.8	2774.5	2712.3	2696.2	2645.5	2647.8
40°	7201.3	3654.8	2534.8	2633.9	2627.0	2686.9	2509.5	2571.7	2594.8	2578.6	2580.9
42.5°	7099.9	3438.2	2470.3	2541.8	2539.5	2421.9	2382.8	2435.8	2495.7	2502.6	2498.0
45°	7019.2	3270.0	2403.5	2401.2	2447.3	2262.9	2251.4	2283.7	2368.9	2410.4	2408.1
47.5°	6929.3	3129.4	2302.1	2237.6	2251.4	2163.8	2145.4	2159.2	2262.9	2329.8	2348.2
50°	6816.4	2988.8	2175.4	2087.8	2030.2	2071.7	2076.3	2078.6	2182.3	2258.3	2274.4
52.5°	6726.6	2882.8	2030.2	1965.7	1896.5	1988.7	2023.3	2027.9	2090.1	2152.3	2163.8
55°	6779.6	2822.9	1887.3	1841.2	1779.0	1903.4	1970.3	1979.5	1993.3	2039.4	2046.3
57.5°	6938.6	2836.7	1772.1	1712.2	1666.1	1802.0	1915.0	1921.9	1912.7	1968.0	1977.2
60°	6987.0	2829.8	1686.8	1569.3	1541.6	1693.7	1834.3	1848.1	1845.8	1926.5	1942.6
62.5°	6784.2	2742.2	1601.6	1449.5	1431.0	1583.1	1721.4	1776.7	1788.2	1903.4	1924.2
65°	6307.2	2562.5	1488.6	1322.7	1322.7	1465.6	1613.1	1689.1	1721.4	1875.8	1898.8
67.5°	5678.1	2350.5	1373.4	1214.4	1209.8	1352.7	1497.9	1576.2	1626.9	1836.6	1850.4
70°	4712.5	2064.7	1230.6	1096.9	1096.9	1225.9	1357.3	1451.8	1525.5	1762.9	1762.9
72.5°	3228.5	1716.8	1057.7	963.2	965.5	1085.4	1219.0	1325.0	1412.6	1615.4	1620.0
75°	2041.7	1341.2	868.8	820.4	829.6	942.5	1080.8	1191.4	1366.5	1597.0	1603.9
77.5°	1085.4	942.5	691.3	679.8	691.3	795.0	949.4	1101.5	1371.1	1384.9	1361.9
80°	702.8	668.3	546.1	523.1	527.7	640.6	845.7	1046.2	1101.5	1115.3	1064.6
82.5°	382.5	424.0	387.1	364.1	364.1	500.1	721.3	831.9	790.4	656.8	626.8
85°	163.6	198.2	200.5	175.1	168.2	308.8	483.9	454.0	421.7	403.3	398.7
87.5°	46.1	64.5	64.5	48.4	36.9	85.3	96.8	27.7	0.0	2.3	4.6
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)