

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: P456226

Luminaire Tested: **GALN-SA7C-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456226  
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-SA7C-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41353 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

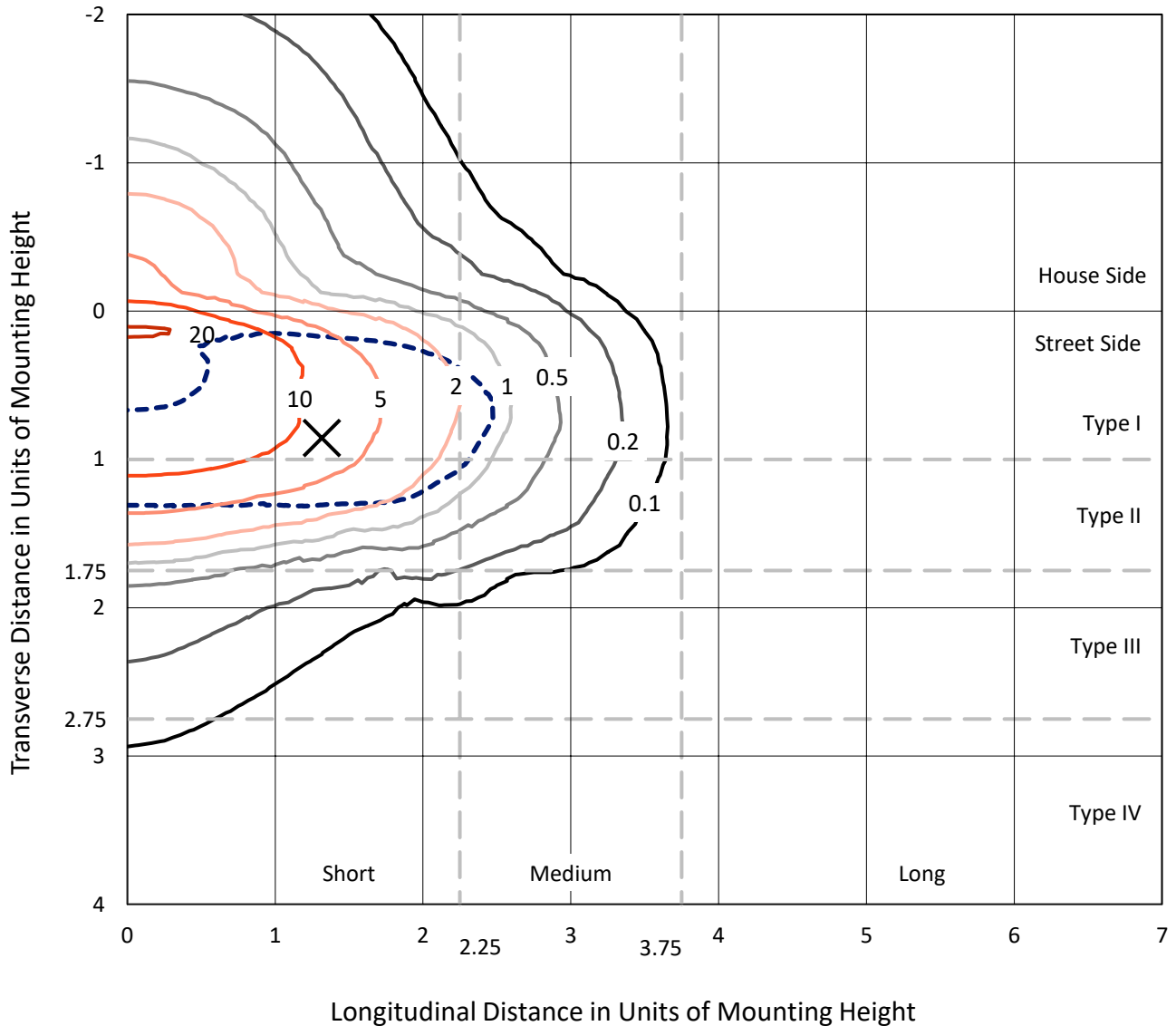
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

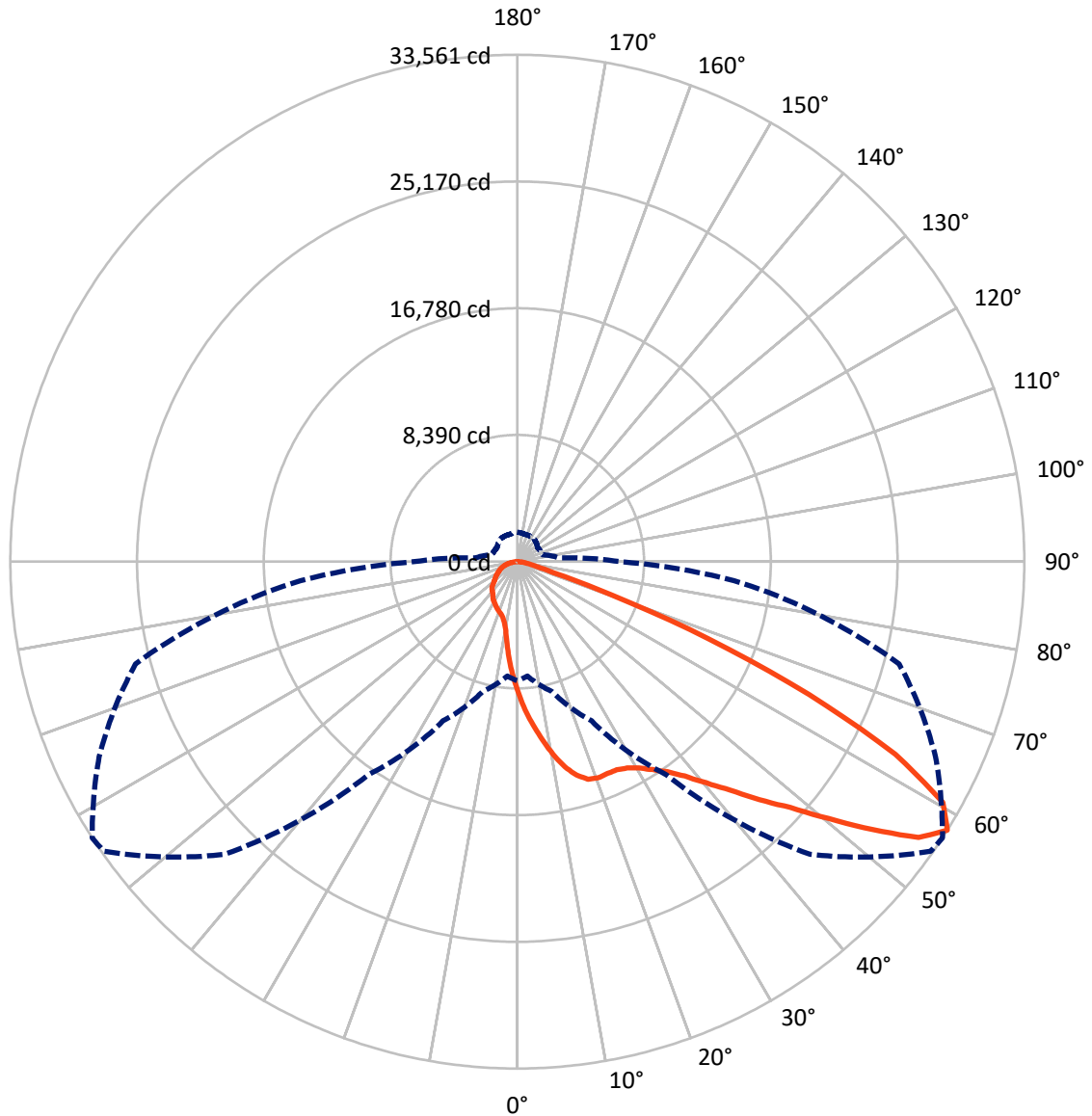
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 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	6288.6	0.0	6288.6
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	35064.4	0.0	35064.4
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	41353.0	0.0	41353.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	835.0	2.0
10°-20°	2460.7	6.0
20°-30°	4086.1	9.9
30°-40°	6154.8	14.9
40°-50°	9240.9	22.3
50°-60°	10357.9	25.0
60°-70°	6062.0	14.7
70°-80°	1793.1	4.3
80°-90°	362.4	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°	41353.0	100.0
0°-180°	41353.0	100.0

**Coefficient of Utilization**



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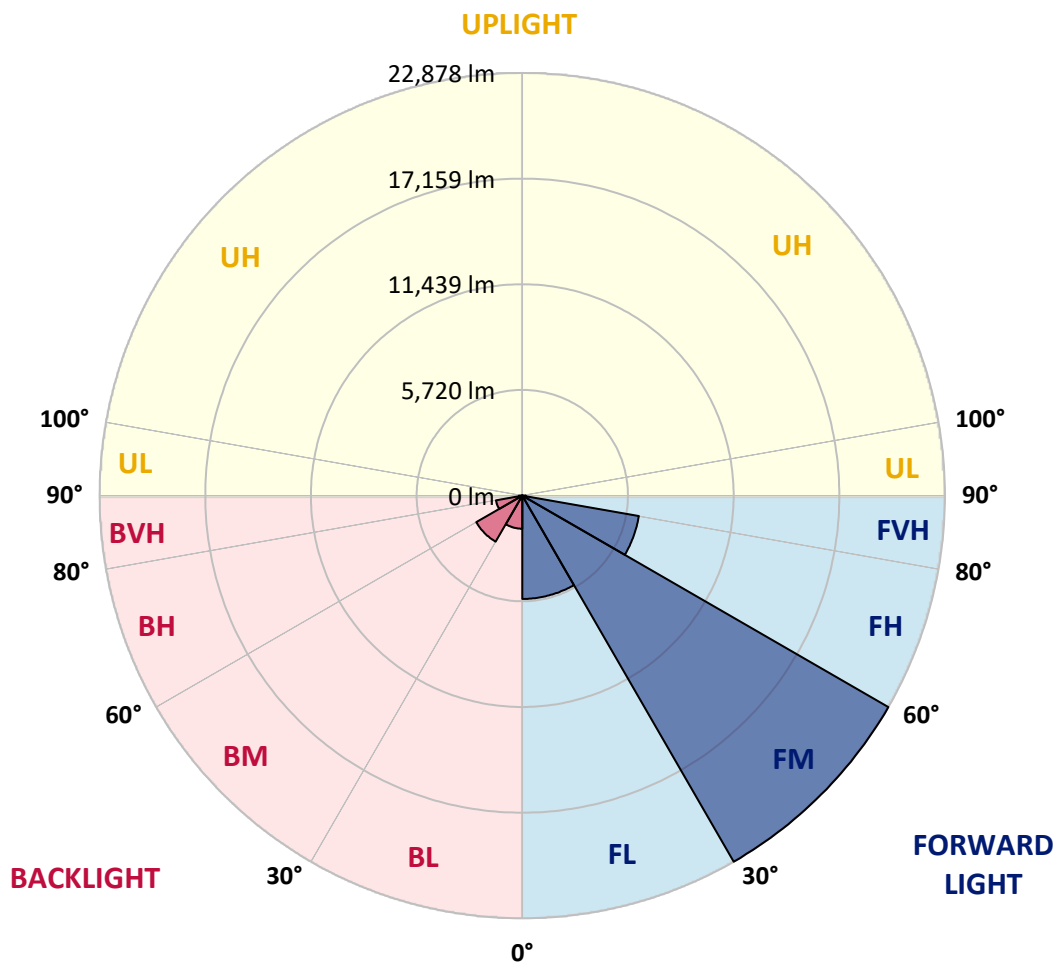
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5590.0	13.5			
FM	(30°-60°)	22878.3	55.3			
FH	(60°-80°)	6408.1	15.5			G3/7500
FVH	(80°-90°)	188.0	0.5			G2/225
BL	(0°-30°)	1791.8	4.3	B3/2500		
BM	(30°-60°)	2875.4	7.0	B3/5000		
BH	(60°-80°)	1447.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	174.4	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°	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8
2.5°	10795.2	10677.5	10584.7	10503.2	10396.8	10109.3	9821.9	9817.3	9588.7	9235.6	8873.4
5°	12554.1	12395.6	12416.0	12162.5	11908.9	11492.4	10883.5	10851.8	10365.1	9704.2	9031.9
7.5°	13699.5	13701.7	13638.3	13493.5	13219.6	12746.5	12056.1	11899.9	11223.1	10220.3	9213.0
10°	13640.6	13701.7	13808.1	13932.6	14016.4	13783.2	13153.9	12963.8	12083.2	10845.0	9414.4
12.5°	12857.4	12952.5	13104.1	13416.5	13921.3	14306.1	14091.1	13937.1	13079.2	11467.5	9636.3
15°	12368.4	12425.0	12508.8	12719.3	13262.6	14183.9	14740.7	14659.2	14018.6	12171.5	9885.2
17.5°	12219.0	12275.6	12302.8	12431.8	12818.9	13762.8	14996.5	15141.4	14851.6	12818.9	10136.5
20°	12368.4	12395.6	12395.6	12472.6	12775.9	13516.1	14985.2	15277.2	15535.3	13595.3	10371.9
22.5°	12760.1	12771.4	12755.5	12782.7	13009.1	13584.0	14878.8	15241.0	16087.6	14254.0	10555.3
25°	13396.1	13414.2	13310.1	13246.7	13412.0	13882.8	14937.7	15270.4	16519.9	14883.3	10677.5
27.5°	14118.2	14140.9	14014.1	13867.0	13943.9	14251.8	15168.5	15467.3	16843.6	15503.6	10754.5
30°	15003.3	15012.4	14799.6	14623.0	14573.2	14801.8	15562.4	15840.8	17246.6	16234.7	10869.9
32.5°	15908.8	15976.7	15702.8	15453.8	15370.0	15440.2	16144.2	16413.5	17726.4	17020.2	11055.5
35°	17140.2	17151.5	16823.3	16519.9	16243.8	16334.3	16888.9	17083.6	18389.7	17927.9	11318.1
37.5°	18677.2	18781.3	18328.6	17762.7	17423.1	17291.8	17789.8	18002.6	19320.0	19041.6	11714.3
40°	20383.9	20422.4	20035.3	19682.2	19062.0	18681.7	19025.8	19256.7	20467.7	20370.4	12173.8
42.5°	21456.9	21540.7	21570.1	21533.9	21067.6	20429.2	20560.5	20669.2	21825.9	21617.6	12644.6
45°	21819.1	21943.6	22364.6	23256.5	23306.3	22677.0	22371.4	22475.5	23306.3	22876.2	13095.1
47.5°	21219.2	21432.0	22208.4	24037.4	25406.9	25454.5	24533.2	24304.5	24655.4	23919.7	13421.0
50°	19668.6	19713.9	20902.3	23550.8	26391.6	28109.7	27156.7	26731.1	25936.6	24691.6	13645.1
52.5°	17269.2	17321.3	18317.3	21289.4	25785.0	29965.9	30226.2	29465.6	27238.2	25291.5	13792.3
55°	12818.9	13120.0	14215.6	17088.1	22910.1	29791.6	32666.4	32234.0	28811.4	25766.8	14023.2
57.5°	7881.9	7605.8	8905.1	11626.0	17230.7	27396.7	33420.2	33560.5	30543.1	26165.2	14410.2
60°	3626.3	3680.7	4217.1	5996.3	10503.2	21432.0	31478.0	32365.3	31500.6	26151.7	14507.6
62.5°	2499.0	2449.2	2313.4	2632.6	4789.8	13554.6	26588.5	28091.6	29581.0	25339.0	14120.5
65°	2234.2	2184.4	1921.8	1833.5	2200.2	5908.1	19329.1	21226.0	24906.7	23288.2	13156.2
67.5°	2087.1	2019.2	1747.5	1575.5	1571.0	2351.9	11397.4	13681.3	18473.4	19689.0	11399.6
70°	1933.1	1878.8	1609.4	1419.3	1337.8	1478.1	5009.4	6557.7	11994.9	14188.4	8880.2
72.5°	1779.2	1715.8	1473.6	1269.9	1163.5	1106.9	1919.6	2496.8	6777.3	8506.7	5444.0
75°	1555.1	1523.4	1317.4	1149.9	1034.5	894.1	1217.8	1389.9	3241.5	3907.0	2732.2
77.5°	1360.4	1326.5	1170.3	1005.0	921.3	726.6	864.7	943.9	1367.2	1584.5	1233.7
80°	996.0	1029.9	986.9	887.3	821.7	570.4	581.8	647.4	812.6	898.7	753.8
82.5°	631.6	694.9	760.6	683.6	622.5	450.5	402.9	427.8	554.6	588.5	335.0
85°	264.8	269.4	441.4	416.5	355.4	267.1	242.2	255.8	296.5	310.1	156.2
87.5°	101.9	99.6	156.2	144.9	110.9	77.0	77.0	86.0	117.7	108.7	49.8
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°	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8	8687.8
2.5°	8717.2	8556.5	8237.3	7841.2	7551.5	7225.5	6938.0	6732.0	6655.1	6618.8	6550.9
5°	8710.4	8393.5	7732.5	7039.9	6483.0	5912.6	5430.4	5118.1	5090.9	4882.6	4862.3
7.5°	8712.7	8228.3	7175.7	6157.1	5308.2	4724.2	4325.8	4221.7	4097.2	4065.5	4081.3
10°	8719.5	8017.8	6578.1	5283.3	4461.6	4079.1	3929.7	3888.9	3893.4	3907.0	3909.3
12.5°	8728.5	7814.0	5957.9	4620.1	3986.2	3827.8	3811.9	3848.2	3886.6	3916.1	3922.9
15°	8739.9	7580.9	5353.5	4085.8	3748.6	3735.0	3787.0	3848.2	3902.5	3945.5	3952.3
17.5°	8726.3	7309.2	4846.4	3757.6	3617.3	3682.9	3768.9	3845.9	3895.7	3936.4	3941.0
20°	8694.6	7005.9	4357.5	3526.7	3535.8	3642.2	3735.0	3807.4	3861.7	3882.1	3898.0
22.5°	8572.3	6643.7	3931.9	3347.9	3438.4	3585.6	3696.5	3739.5	3678.4	3635.4	3646.7
25°	8364.1	6172.9	3535.8	3203.0	3350.2	3506.4	3619.5	3515.4	3465.6	3447.5	3456.6
27.5°	8103.8	5656.8	3237.0	3051.4	3237.0	3418.1	3386.4	3368.3	3345.6	3316.2	3323.0
30°	7823.1	5152.0	2983.5	2933.7	3114.7	3218.9	3232.5	3261.9	3237.0	3191.7	3209.8
32.5°	7562.8	4676.6	2791.0	2834.1	3028.7	3012.9	3114.7	3148.7	3033.3	2881.6	2888.4
35°	7340.9	4235.2	2646.2	2736.7	2881.6	2888.4	2990.2	2872.5	2748.0	2675.6	2680.1
37.5°	7173.4	3891.2	2551.1	2653.0	2693.7	2779.7	2725.4	2664.3	2648.4	2598.6	2600.9
40°	7073.8	3590.1	2490.0	2587.3	2580.5	2639.4	2465.1	2526.2	2548.8	2533.0	2535.3
42.5°	6974.2	3377.3	2426.6	2496.8	2494.5	2379.1	2340.6	2392.7	2451.5	2458.3	2453.8
45°	6895.0	3212.1	2361.0	2358.7	2404.0	2222.9	2211.6	2243.3	2327.0	2367.8	2365.5
47.5°	6806.7	3074.0	2261.4	2198.0	2211.6	2125.5	2107.4	2121.0	2222.9	2288.5	2306.6
50°	6695.8	2935.9	2136.9	2050.8	1994.3	2035.0	2039.5	2041.8	2143.7	2218.4	2234.2
52.5°	6607.5	2831.8	1994.3	1930.9	1863.0	1953.5	1987.5	1992.0	2053.1	2114.2	2125.5
55°	6659.6	2772.9	1853.9	1808.6	1747.5	1869.8	1935.4	1944.5	1958.0	2003.3	2010.1
57.5°	6815.8	2786.5	1740.7	1681.9	1636.6	1770.2	1881.1	1887.9	1878.8	1933.1	1942.2
60°	6863.3	2779.7	1657.0	1541.5	1514.4	1663.8	1801.8	1815.4	1813.2	1892.4	1908.2
62.5°	6664.1	2693.7	1573.2	1423.8	1405.7	1555.1	1690.9	1745.3	1756.6	1869.8	1890.1
65°	6195.5	2517.2	1462.3	1299.3	1299.3	1439.7	1584.5	1659.2	1690.9	1842.6	1865.2
67.5°	5577.6	2308.9	1349.1	1192.9	1188.4	1328.7	1471.4	1548.3	1598.1	1804.1	1817.7
70°	4629.1	2028.2	1208.8	1077.5	1077.5	1204.2	1333.3	1426.1	1498.5	1731.7	1731.7
72.5°	3171.3	1686.4	1039.0	946.2	948.5	1066.2	1197.5	1301.6	1387.6	1586.8	1591.3
75°	2005.6	1317.4	853.4	805.9	814.9	925.8	1061.6	1170.3	1342.3	1568.7	1575.5
77.5°	1066.2	925.8	679.1	667.8	679.1	781.0	932.6	1082.0	1346.9	1360.4	1337.8
80°	690.4	656.5	536.5	513.8	518.4	629.3	830.8	1027.7	1082.0	1095.6	1045.8
82.5°	375.8	416.5	380.3	357.7	357.7	491.2	708.5	817.2	776.4	645.1	615.7
85°	160.7	194.7	196.9	172.0	165.2	303.3	475.4	445.9	414.2	396.1	391.6
87.5°	45.3	63.4	63.4	47.5	36.2	83.8	95.1	27.2	0.0	2.3	4.5
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)