

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: P457212

Luminaire Tested: **GALN-SA8C-740-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457212  
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-SA8C-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 57327 lumens  
Efficiency: N/A  
Efficacy: 133.6 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

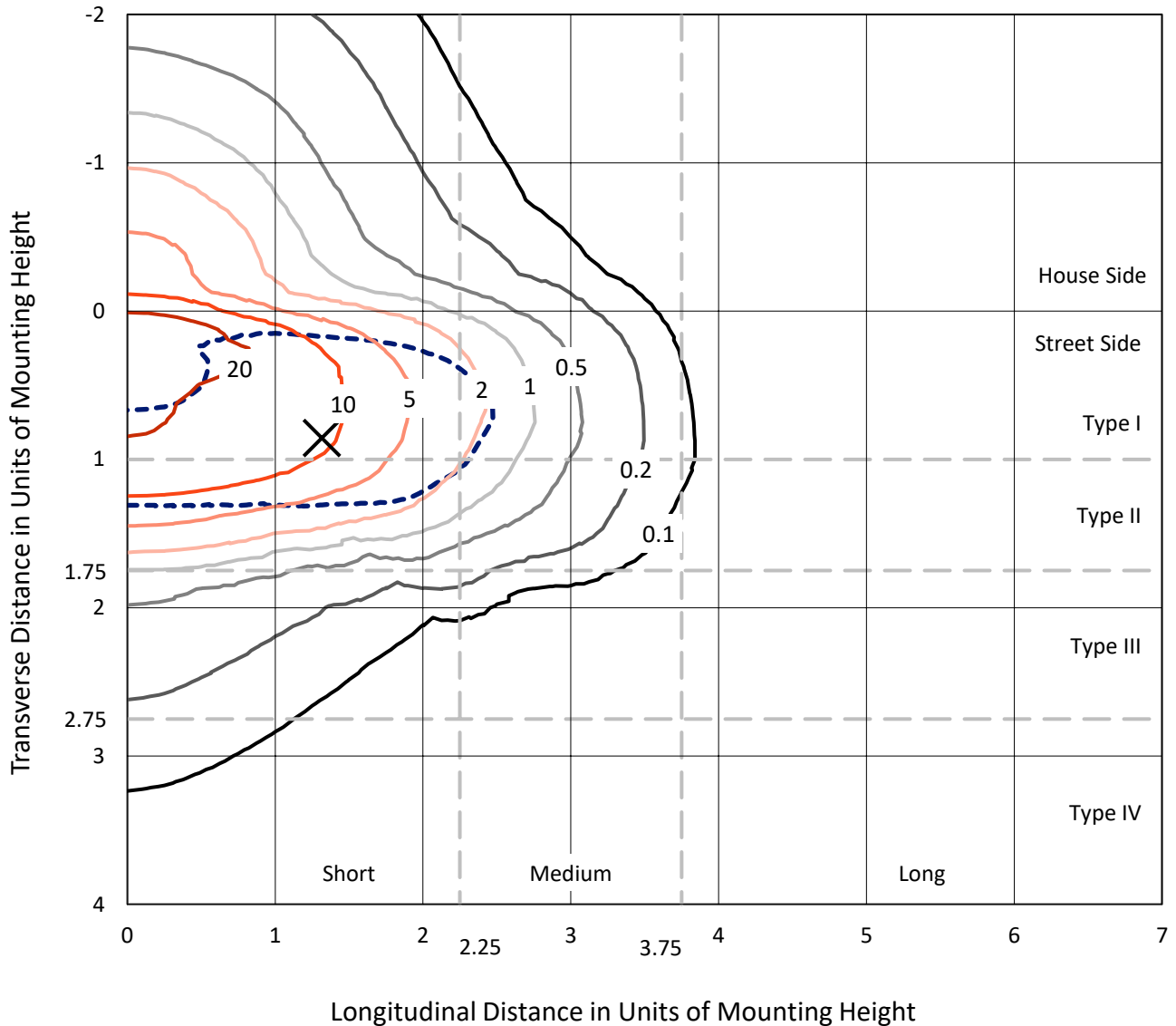
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

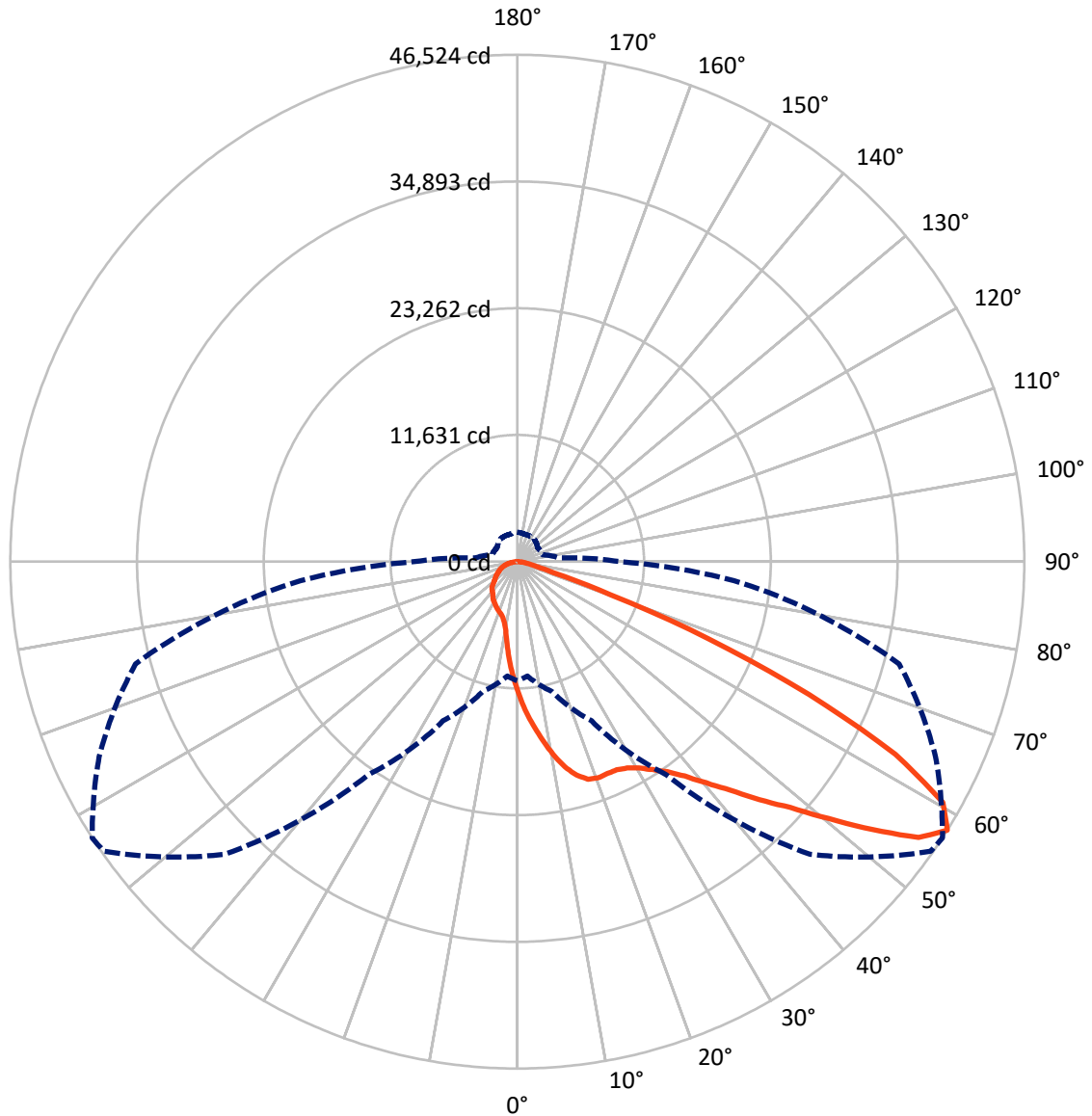
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 29.3 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	8717.8	0.0	8717.8
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	48609.2	0.0	48609.2
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	57327.0	0.0	57327.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1157.5	2.0
10°-20°	3411.3	6.0
20°-30°	5664.5	9.9
30°-40°	8532.4	14.9
40°-50°	12810.5	22.3
50°-60°	14359.0	25.0
60°-70°	8403.6	14.7
70°-80°	2485.7	4.3
80°-90°	502.4	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°	57327.0	100.0
0°-180°	57327.0	100.0

**Coefficient of Utilization**



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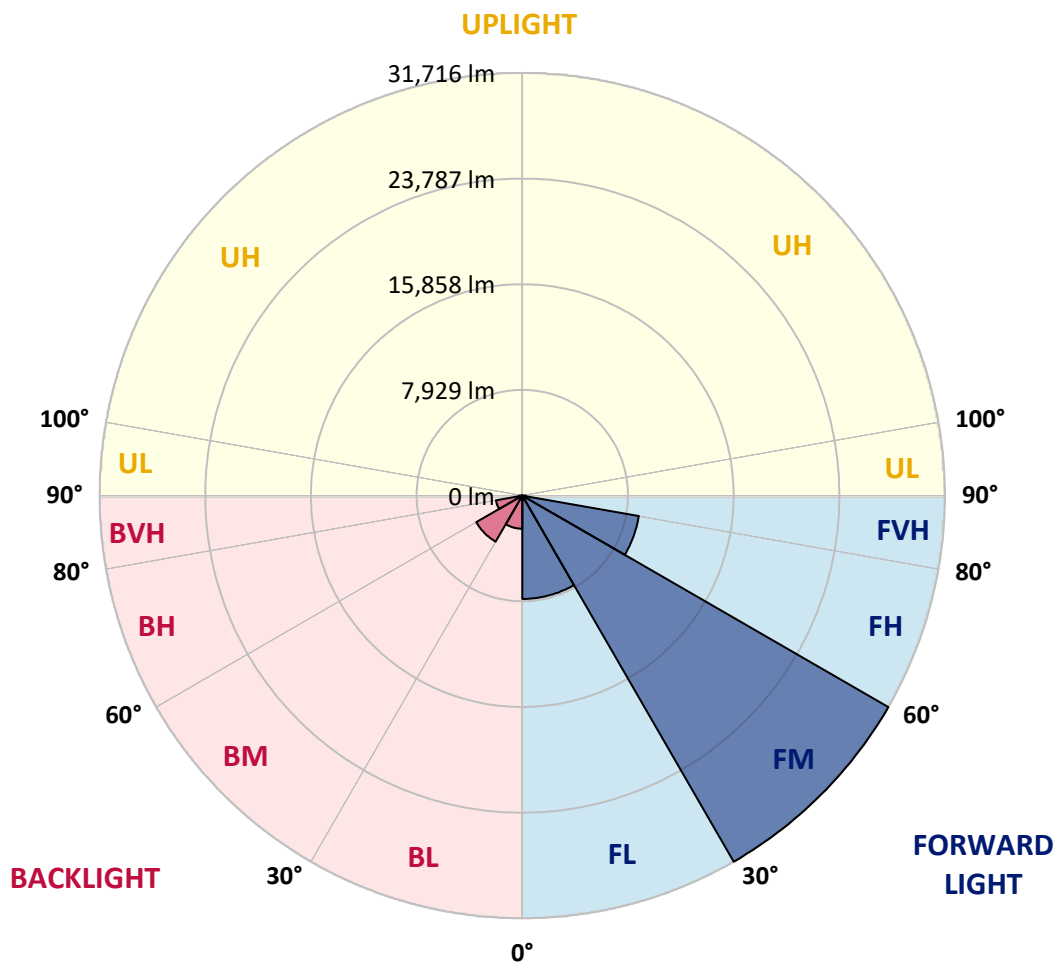
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7749.3	13.5			
FM	(30°-60°)	31715.8	55.3			
FH	(60°-80°)	8883.4	15.5			G4/12000
FVH	(80°-90°)	260.7	0.5			G3/500
BL	(0°-30°)	2484.0	4.3	B3/2500		
BM	(30°-60°)	3986.1	7.0	B3/5000		
BH	(60°-80°)	2005.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	241.7	0.4			G3/500
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°	57°	65°	75°	85°
0°	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7
2.5°	14965.2	14802.1	14673.4	14560.4	14413.0	14014.4	13615.9	13609.6	13292.7	12803.1	12301.1
5°	17403.5	17183.8	17212.1	16860.6	16509.2	15931.8	15087.6	15043.7	14369.0	13452.7	12520.7
7.5°	18991.3	18994.5	18906.6	18705.8	18326.1	17670.2	16713.1	16496.6	15558.3	14168.2	12771.8
10°	18909.7	18994.5	19142.0	19314.6	19430.7	19107.4	18235.1	17971.5	16750.8	15034.3	13051.1
12.5°	17824.0	17955.8	18166.0	18599.1	19298.9	19832.3	19534.2	19320.8	18131.5	15897.2	13358.6
15°	17146.2	17224.6	17340.7	17632.6	18385.7	19662.9	20434.8	20321.9	19433.8	16873.2	13703.8
17.5°	16939.1	17017.5	17055.2	17234.0	17770.6	19079.2	20789.4	20990.3	20588.6	17770.6	14052.1
20°	17146.2	17183.8	17183.8	17290.5	17711.0	18737.2	20773.7	21178.5	21536.3	18847.0	14378.4
22.5°	17689.1	17704.7	17682.8	17720.4	18034.2	18831.3	20626.2	21128.3	22302.0	19760.2	14632.6
25°	18570.8	18595.9	18451.6	18363.7	18592.8	19245.5	20707.8	21169.1	22901.3	20632.5	14802.1
27.5°	19571.9	19603.3	19427.5	19223.6	19330.2	19757.0	21027.9	21442.1	23350.1	21492.3	14908.8
30°	20798.8	20811.4	20516.4	20271.7	20202.6	20519.6	21573.9	21959.9	23908.6	22505.9	15068.8
32.5°	22054.1	22148.2	21768.5	21423.3	21307.2	21404.5	22380.4	22753.8	24573.9	23594.8	15326.1
35°	23761.1	23776.8	23321.8	22901.3	22518.5	22644.0	23412.8	23682.7	25493.3	24853.2	15690.1
37.5°	25891.9	26036.2	25408.6	24624.1	24153.4	23971.4	24661.8	24956.7	26783.1	26397.1	16239.3
40°	28257.9	28311.3	27774.7	27285.1	26425.3	25898.1	26375.1	26695.2	28374.0	28239.1	16876.3
42.5°	29745.4	29861.5	29902.3	29852.0	29205.6	28320.7	28502.7	28653.3	30256.9	29968.2	17529.0
45°	30247.4	30420.0	31003.7	32240.1	32309.1	31436.8	31013.1	31157.5	32309.1	31712.9	18153.5
47.5°	29415.9	29710.8	30787.2	33322.7	35221.2	35287.1	34009.9	33693.0	34179.4	33159.5	18605.4
50°	27266.3	27329.1	28976.5	32648.0	36586.3	38968.0	37646.9	37057.0	35955.5	34229.6	18916.0
52.5°	23940.0	24012.2	25392.9	29513.1	35745.3	41541.2	41902.1	40847.7	37759.9	35061.2	19120.0
55°	17770.6	18188.0	19706.8	23689.0	31760.0	41299.6	45284.9	44685.5	39940.8	35720.2	19440.1
57.5°	10926.6	10543.8	12345.0	16116.9	23886.7	37979.5	46329.8	46524.4	42341.4	36272.5	19976.7
60°	5027.1	5102.4	5846.1	8312.6	14560.4	29710.8	43637.4	44867.5	43668.8	36253.6	20111.6
62.5°	3464.4	3395.3	3207.1	3649.5	6640.1	18790.5	36859.3	38942.9	41007.7	35127.1	19575.0
65°	3097.2	3028.2	2664.2	2541.8	3050.2	8190.2	26795.6	29425.3	34527.7	32284.0	18238.2
67.5°	2893.3	2799.1	2422.6	2184.1	2177.8	3260.4	15800.0	18966.2	25609.4	27294.6	15803.1
70°	2679.9	2604.6	2231.1	1967.5	1854.6	2049.1	6944.5	9090.9	16628.4	19669.2	12310.5
72.5°	2466.5	2378.6	2042.9	1760.4	1612.9	1534.5	2661.0	3461.2	9395.3	11792.7	7547.0
75°	2155.8	2111.9	1826.3	1594.1	1434.1	1239.5	1688.3	1926.7	4493.7	5416.2	3787.6
77.5°	1886.0	1838.9	1622.4	1393.3	1277.2	1007.3	1198.7	1308.6	1895.4	2196.6	1710.2
80°	1380.7	1427.8	1368.2	1230.1	1139.1	790.8	806.5	897.5	1126.6	1245.8	1045.0
82.5°	875.5	963.4	1054.4	947.7	863.0	624.5	558.6	593.1	768.8	815.9	464.4
85°	367.1	373.4	611.9	577.4	492.7	370.3	335.8	354.6	411.1	429.9	216.5
87.5°	141.2	138.1	216.5	200.8	153.8	106.7	106.7	119.2	163.2	150.6	69.0
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°	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7	12043.7
2.5°	12084.5	11861.7	11419.3	10870.1	10468.5	10016.6	9618.1	9332.5	9225.8	9175.6	9081.4
5°	12075.1	11635.8	10719.5	9759.3	8987.3	8196.5	7528.1	7095.1	7057.4	6768.7	6740.5
7.5°	12078.3	11406.7	9947.5	8535.4	7358.7	6549.1	5996.8	5852.4	5679.8	5635.9	5657.9
10°	12087.7	11114.9	9119.1	7324.2	6185.1	5654.7	5447.6	5391.1	5397.4	5416.2	5419.4
12.5°	12100.2	10832.5	8259.3	6404.7	5526.1	5306.4	5284.4	5334.6	5388.0	5428.8	5438.2
15°	12115.9	10509.3	7421.4	5664.1	5196.6	5177.7	5249.9	5334.6	5410.0	5469.6	5479.0
17.5°	12097.1	10132.7	6718.5	5209.1	5014.6	5105.6	5224.8	5331.5	5400.5	5457.0	5463.3
20°	12053.2	9712.2	6040.7	4889.0	4901.6	5049.1	5177.7	5278.2	5353.5	5381.7	5403.7
22.5°	11883.7	9210.1	5450.8	4641.1	4766.7	4970.6	5124.4	5184.0	5099.3	5039.7	5055.4
25°	11595.0	8557.4	4901.6	4440.3	4644.3	4860.8	5017.7	4873.4	4804.3	4779.2	4791.8
27.5°	11234.1	7841.9	4487.4	4230.1	4487.4	4738.4	4694.5	4669.4	4638.0	4597.2	4606.6
30°	10845.0	7142.1	4135.9	4066.9	4317.9	4462.3	4481.1	4521.9	4487.4	4424.6	4449.7
32.5°	10484.1	6483.2	3869.2	3928.8	4198.7	4176.7	4317.9	4365.0	4205.0	3994.7	4004.1
35°	10176.6	5871.2	3668.4	3793.9	3994.7	4004.1	4145.3	3982.2	3809.6	3709.1	3715.4
37.5°	9944.4	5394.3	3536.6	3677.8	3734.3	3853.5	3778.2	3693.5	3671.5	3602.5	3605.6
40°	9806.3	4976.9	3451.8	3586.8	3577.4	3658.9	3417.3	3502.0	3533.4	3511.5	3514.6
42.5°	9668.3	4681.9	3364.0	3461.2	3458.1	3298.1	3244.7	3316.9	3398.5	3407.9	3401.6
45°	9558.4	4452.9	3273.0	3269.8	3332.6	3081.5	3065.9	3109.8	3225.9	3282.4	3279.2
47.5°	9436.0	4261.4	3134.9	3047.0	3065.9	2946.6	2921.5	2940.3	3081.5	3172.5	3197.6
50°	9282.3	4070.0	2962.3	2843.1	2764.6	2821.1	2827.4	2830.5	2971.7	3075.3	3097.2
52.5°	9159.9	3925.7	2764.6	2676.7	2582.6	2708.1	2755.2	2761.5	2846.2	2930.9	2946.6
55°	9232.1	3844.1	2570.0	2507.3	2422.6	2592.0	2683.0	2695.6	2714.4	2777.2	2786.6
57.5°	9448.6	3862.9	2413.1	2331.6	2268.8	2453.9	2607.7	2617.1	2604.6	2679.9	2692.4
60°	9514.5	3853.5	2297.0	2137.0	2099.3	2306.4	2497.9	2516.7	2513.6	2623.4	2645.4
62.5°	9238.4	3734.3	2180.9	1973.8	1948.7	2155.8	2344.1	2419.4	2435.1	2592.0	2620.3
65°	8588.8	3489.5	2027.2	1801.2	1801.2	1995.8	2196.6	2300.2	2344.1	2554.4	2585.7
67.5°	7732.1	3200.8	1870.3	1653.7	1647.5	1842.0	2039.7	2146.4	2215.4	2501.0	2519.8
70°	6417.3	2811.7	1675.7	1493.7	1493.7	1669.4	1848.3	1977.0	2077.4	2400.6	2400.6
72.5°	4396.4	2337.8	1440.4	1311.7	1314.8	1478.0	1660.0	1804.4	1923.6	2199.8	2206.0
75°	2780.3	1826.3	1183.0	1117.1	1129.7	1283.5	1471.7	1622.4	1860.8	2174.7	2184.1
77.5°	1478.0	1283.5	941.4	925.7	941.4	1082.6	1292.9	1500.0	1867.1	1886.0	1854.6
80°	957.1	910.0	743.7	712.3	718.6	872.4	1151.7	1424.7	1500.0	1518.8	1449.8
82.5°	520.9	577.4	527.2	495.8	495.8	681.0	982.2	1132.8	1076.3	894.3	853.5
85°	222.8	269.9	273.0	238.5	229.1	420.5	659.0	618.2	574.3	549.2	542.9
87.5°	62.8	87.9	87.9	65.9	50.2	116.1	131.8	37.7	0.0	3.1	6.3
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)