

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: P456052

Luminaire Tested: **GALN-SA7B-740-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456052  
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-SA7B-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40021 lumens  
Efficiency: N/A  
Efficacy: 139.9 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

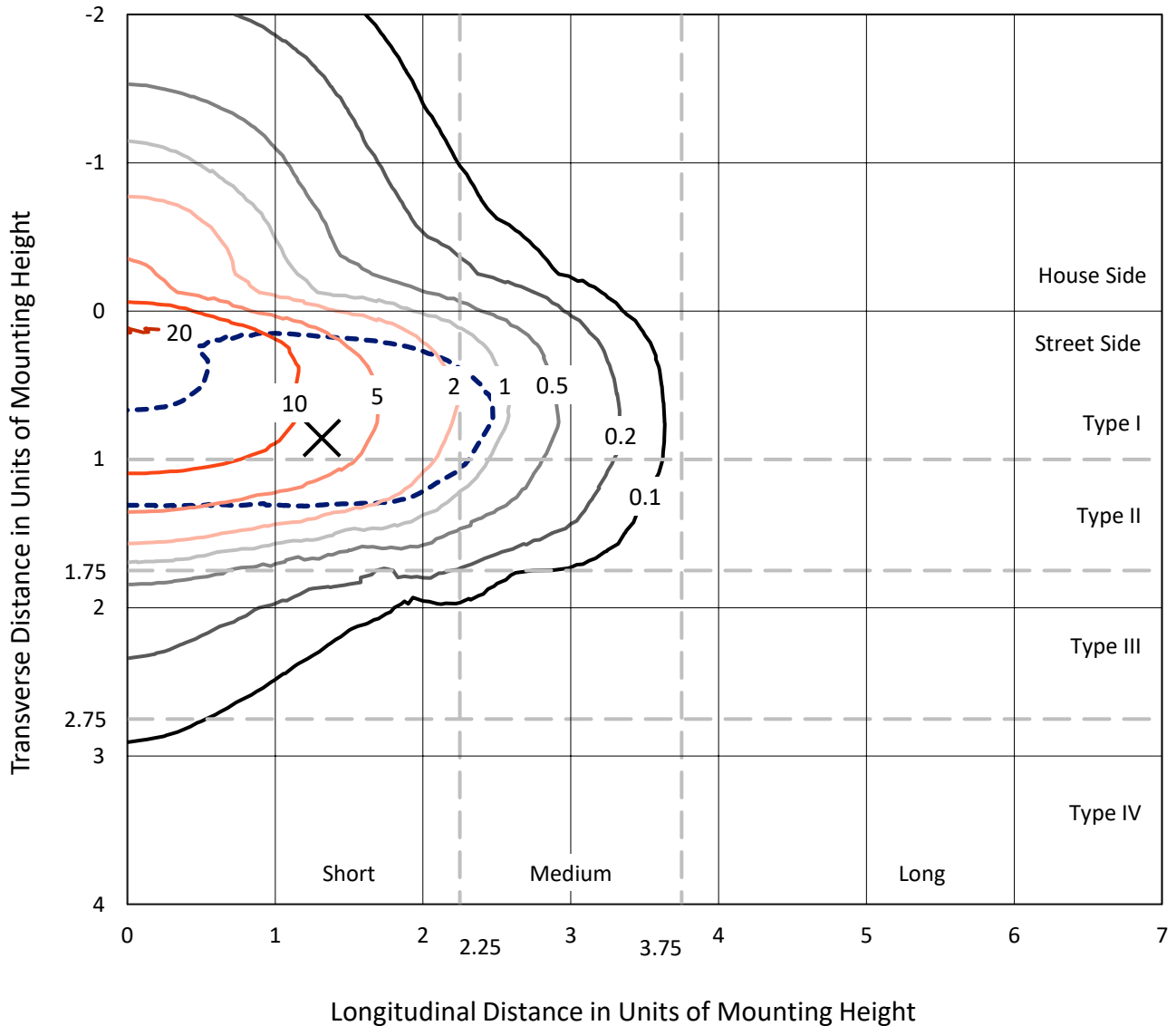
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

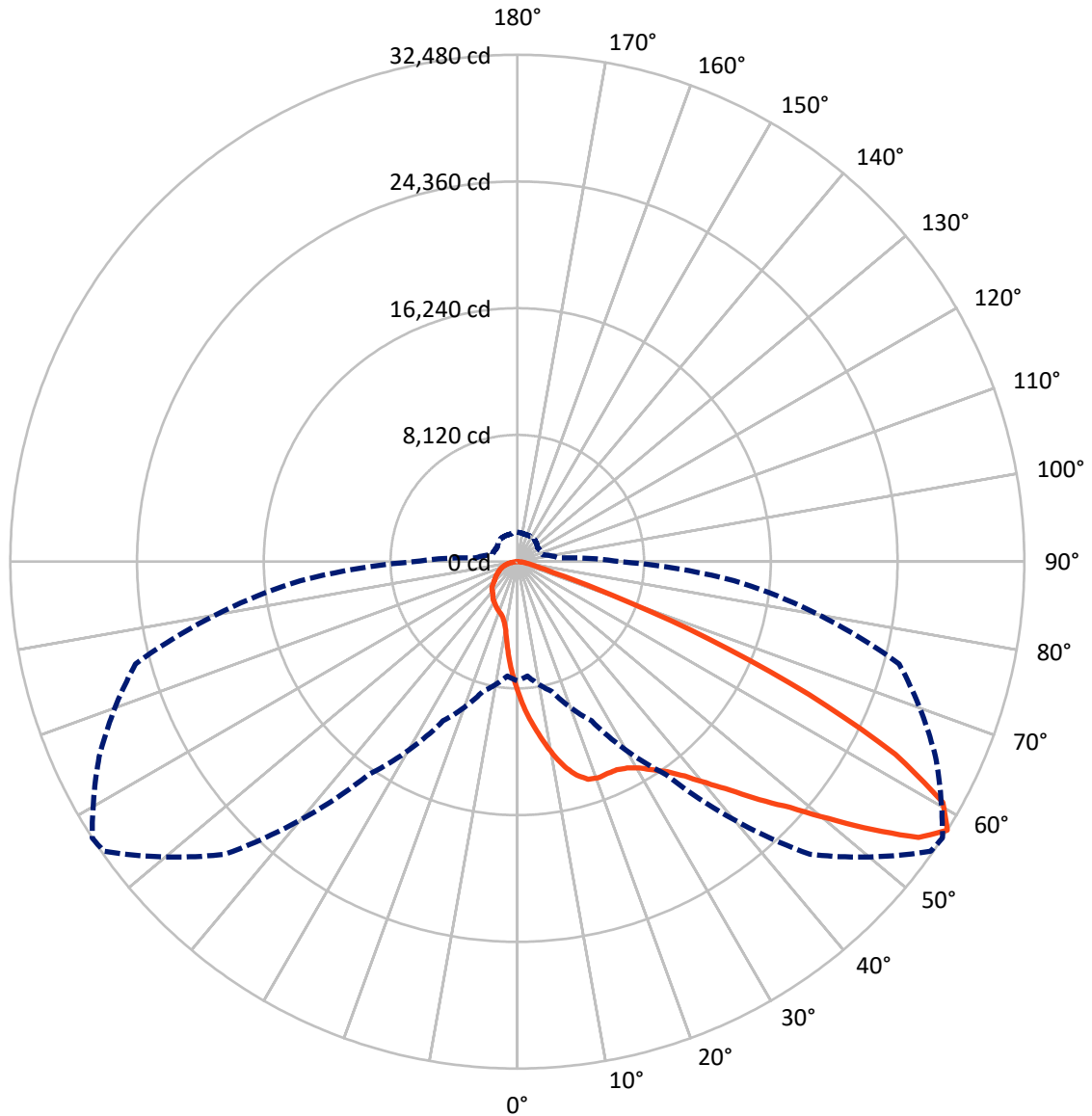
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 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	6086.1	0.0	6086.1
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	33934.9	0.0	33934.9
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	40021.0	0.0	40021.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	808.1	2.0
10°-20°	2381.5	6.0
20°-30°	3954.5	9.9
30°-40°	5956.6	14.9
40°-50°	8943.3	22.3
50°-60°	10024.3	25.0
60°-70°	5866.7	14.7
70°-80°	1735.3	4.3
80°-90°	350.8	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°	40021.0	100.0
0°-180°	40021.0	100.0

**Coefficient of Utilization**



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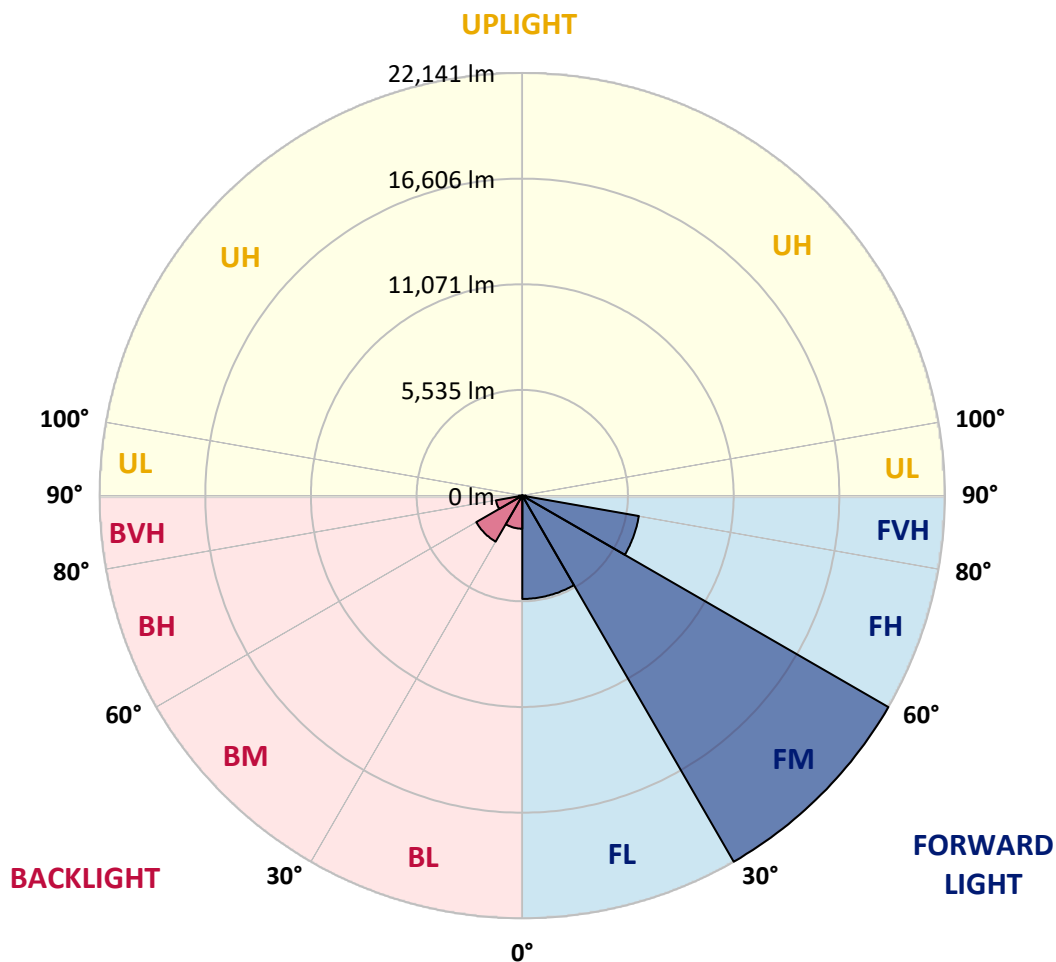
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5409.9	13.5			
FM	(30°-60°)	22141.4	55.3			
FH	(60°-80°)	6201.7	15.5			G3/7500
FVH	(80°-90°)	182.0	0.5			G2/225
BL	(0°-30°)	1734.1	4.3	B3/2500		
BM	(30°-60°)	2782.8	7.0	B3/5000		
BH	(60°-80°)	1400.4	3.5	B3/2500		G3/2500
BVH	(80°-90°)	168.8	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°	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0
2.5°	10447.5	10333.6	10243.8	10164.9	10061.9	9783.7	9505.5	9501.1	9279.9	8938.1	8587.6
5°	12149.7	11996.3	12016.1	11770.7	11525.3	11122.2	10532.9	10502.3	10031.3	9391.6	8740.9
7.5°	13258.2	13260.4	13199.0	13058.8	12793.8	12335.9	11667.7	11516.6	10861.6	9891.1	8916.2
10°	13201.2	13260.4	13363.3	13483.8	13564.9	13339.2	12730.2	12546.2	11694.0	10495.7	9111.2
12.5°	12443.2	12535.3	12682.0	12984.4	13472.9	13845.3	13637.2	13488.2	12657.9	11098.1	9325.9
15°	11970.1	12024.8	12105.9	12309.6	12835.4	13727.0	14265.9	14187.1	13567.1	11779.5	9566.8
17.5°	11825.5	11880.2	11906.5	12031.4	12406.0	13319.5	14513.5	14653.7	14373.3	12406.0	9810.0
20°	11970.1	11996.3	11996.3	12070.8	12364.4	13080.7	14502.5	14785.1	15034.9	13157.4	10037.8
22.5°	12349.0	12360.0	12344.7	12371.0	12590.0	13146.5	14399.6	14750.1	15569.4	13794.9	10215.3
25°	12964.6	12982.2	12881.4	12820.0	12980.0	13435.6	14456.5	14778.5	15987.8	14403.9	10333.6
27.5°	13663.5	13685.4	13562.7	13420.3	13494.8	13792.7	14680.0	14969.1	16301.1	15004.2	10408.1
30°	14520.0	14528.8	14322.9	14152.0	14103.8	14325.1	15061.1	15330.6	16691.0	15711.8	10519.8
32.5°	15396.3	15462.0	15197.0	14956.0	14874.9	14942.8	15624.2	15884.9	17155.5	16472.0	10699.4
35°	16588.1	16599.0	16281.4	15987.8	15720.6	15808.2	16344.9	16533.3	17797.3	17350.4	10953.6
37.5°	18075.6	18176.3	17738.2	17190.5	16861.9	16734.9	17216.8	17422.7	18697.7	18428.3	11336.9
40°	19727.4	19764.6	19390.0	19048.2	18448.0	18079.9	18412.9	18636.4	19808.4	19714.2	11781.7
42.5°	20765.8	20846.8	20875.3	20840.2	20389.0	19771.2	19898.2	20003.4	21122.8	20921.3	12237.3
45°	21116.3	21236.8	21644.2	22507.4	22555.6	21946.6	21650.8	21751.6	22555.6	22139.3	12673.3
47.5°	20535.7	20741.7	21493.1	23263.2	24588.6	24634.6	23742.9	23521.7	23861.2	23149.3	12988.7
50°	19035.1	19078.9	20229.0	22792.2	25541.5	27204.3	26282.0	25870.1	25101.2	23896.3	13205.6
52.5°	16712.9	16763.3	17727.2	20603.6	24954.4	29000.7	29252.6	28516.5	26360.8	24476.8	13348.0
55°	12406.0	12697.4	13757.7	16537.7	22172.2	28832.0	31614.2	31195.7	27883.4	24936.9	13571.5
57.5°	7628.1	7360.8	8618.3	11251.5	16675.7	26514.2	32343.7	32479.5	29559.3	25322.4	13946.1
60°	3509.5	3562.1	4081.3	5803.2	10164.9	20741.7	30464.0	31322.8	30486.0	25309.3	14040.3
62.5°	2418.5	2370.4	2238.9	2547.8	4635.5	13118.0	25732.1	27186.7	28628.2	24522.8	13665.7
65°	2162.2	2114.0	1859.9	1774.5	2129.4	5717.8	18706.5	20542.3	24104.4	22538.0	12732.4
67.5°	2019.8	1954.1	1691.2	1524.7	1520.4	2276.2	11030.2	13240.7	17878.4	19054.8	11032.4
70°	1870.9	1818.3	1557.6	1373.6	1294.7	1430.5	4848.0	6346.5	11608.6	13731.4	8594.2
72.5°	1721.9	1660.6	1426.2	1229.0	1126.0	1071.3	1857.7	2416.4	6559.0	8232.7	5268.7
75°	1505.0	1474.3	1275.0	1112.9	1001.2	865.3	1178.6	1345.1	3137.1	3781.2	2644.2
77.5°	1316.6	1283.8	1132.6	972.7	891.6	703.2	836.9	913.5	1323.2	1533.5	1193.9
80°	963.9	996.8	955.2	858.8	795.2	552.1	563.0	626.5	786.5	869.7	729.5
82.5°	611.2	672.5	736.1	661.6	602.4	436.0	389.9	414.0	536.7	569.6	324.2
85°	256.3	260.7	427.2	403.1	343.9	258.5	234.4	247.6	287.0	300.1	151.2
87.5°	98.6	96.4	151.2	140.2	107.3	74.5	74.5	83.2	113.9	105.2	48.2
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°	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0	8408.0
2.5°	8436.4	8280.9	7972.0	7588.6	7308.2	6992.8	6714.5	6515.2	6440.7	6405.6	6339.9
5°	8429.9	8123.2	7483.5	6813.1	6274.2	5722.1	5255.5	4953.2	4926.9	4725.4	4705.7
7.5°	8432.1	7963.2	6944.6	5958.7	5137.2	4572.0	4186.5	4085.7	3965.2	3934.5	3949.9
10°	8438.6	7759.5	6366.2	5113.1	4317.9	3947.7	3803.1	3763.6	3768.0	3781.2	3783.4
12.5°	8447.4	7562.3	5766.0	4471.2	3857.8	3704.5	3689.2	3724.2	3761.5	3789.9	3796.5
15°	8458.3	7336.7	5181.0	3954.2	3627.8	3614.7	3665.1	3724.2	3776.8	3818.4	3825.0
17.5°	8445.2	7073.8	4690.3	3636.6	3500.8	3564.3	3647.5	3722.0	3770.2	3809.6	3814.0
20°	8414.5	6780.3	4217.1	3413.1	3421.9	3524.9	3614.7	3684.8	3737.4	3757.1	3772.4
22.5°	8296.2	6429.7	3805.3	3240.1	3327.7	3470.1	3577.4	3619.1	3559.9	3518.3	3529.2
25°	8094.7	5974.1	3421.9	3099.9	3242.3	3393.4	3502.9	3402.2	3354.0	3336.5	3345.2
27.5°	7842.8	5474.6	3132.7	2953.1	3132.7	3308.0	3277.3	3259.8	3237.9	3209.4	3216.0
30°	7571.1	4986.1	2887.4	2839.2	3014.4	3115.2	3128.3	3156.8	3132.7	3088.9	3106.4
32.5°	7319.2	4526.0	2701.1	2742.8	2931.2	2915.8	3014.4	3047.3	2935.6	2788.8	2795.3
35°	7104.5	4098.8	2560.9	2648.6	2788.8	2795.3	2893.9	2780.0	2659.5	2589.4	2593.8
37.5°	6942.4	3765.8	2468.9	2567.5	2606.9	2690.2	2637.6	2578.5	2563.1	2514.9	2517.1
40°	6846.0	3474.5	2409.8	2504.0	2497.4	2554.4	2385.7	2444.8	2466.7	2451.4	2453.6
42.5°	6749.6	3268.5	2348.4	2416.4	2414.2	2302.4	2265.2	2315.6	2372.5	2379.1	2374.7
45°	6672.9	3108.6	2284.9	2282.7	2326.5	2151.3	2140.3	2171.0	2252.1	2291.5	2289.3
47.5°	6587.5	2975.0	2188.5	2127.2	2140.3	2057.1	2039.6	2052.7	2151.3	2214.8	2232.3
50°	6480.1	2841.4	2068.0	1984.8	1930.0	1969.5	1973.8	1976.0	2074.6	2146.9	2162.2
52.5°	6394.7	2740.6	1930.0	1868.7	1803.0	1890.6	1923.4	1927.8	1987.0	2046.1	2057.1
55°	6445.1	2683.6	1794.2	1750.4	1691.2	1809.5	1873.1	1881.8	1895.0	1938.8	1945.4
57.5°	6596.2	2696.8	1684.7	1627.7	1583.9	1713.1	1820.5	1827.1	1818.3	1870.9	1879.6
60°	6642.2	2690.2	1603.6	1491.9	1465.6	1610.2	1743.8	1757.0	1754.8	1831.4	1846.8
62.5°	6449.5	2606.9	1522.5	1378.0	1360.4	1505.0	1636.5	1689.0	1700.0	1809.5	1829.2
65°	5996.0	2436.1	1415.2	1257.5	1257.5	1393.3	1533.5	1605.8	1636.5	1783.2	1805.1
67.5°	5397.9	2234.5	1305.7	1154.5	1150.1	1285.9	1424.0	1498.4	1546.6	1746.0	1759.1
70°	4480.0	1962.9	1169.8	1042.8	1042.8	1165.5	1290.3	1380.1	1450.3	1675.9	1675.9
72.5°	3069.2	1632.1	1005.5	915.7	917.9	1031.8	1158.9	1259.7	1342.9	1535.7	1540.1
75°	1941.0	1275.0	825.9	779.9	788.7	896.0	1027.4	1132.6	1299.1	1518.2	1524.7
77.5°	1031.8	896.0	657.2	646.3	657.2	755.8	902.6	1047.2	1303.5	1316.6	1294.7
80°	668.2	635.3	519.2	497.3	501.7	609.0	804.0	994.6	1047.2	1060.3	1012.1
82.5°	363.7	403.1	368.0	346.1	346.1	475.4	685.7	790.8	751.4	624.4	595.9
85°	155.5	188.4	190.6	166.5	159.9	293.6	460.0	431.6	400.9	383.4	379.0
87.5°	43.8	61.3	61.3	46.0	35.1	81.1	92.0	26.3	0.0	2.2	4.4
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)