

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: P648570

Luminaire Tested: **GALN-SA7B-835-U-T4FT**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-835-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30964.5 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

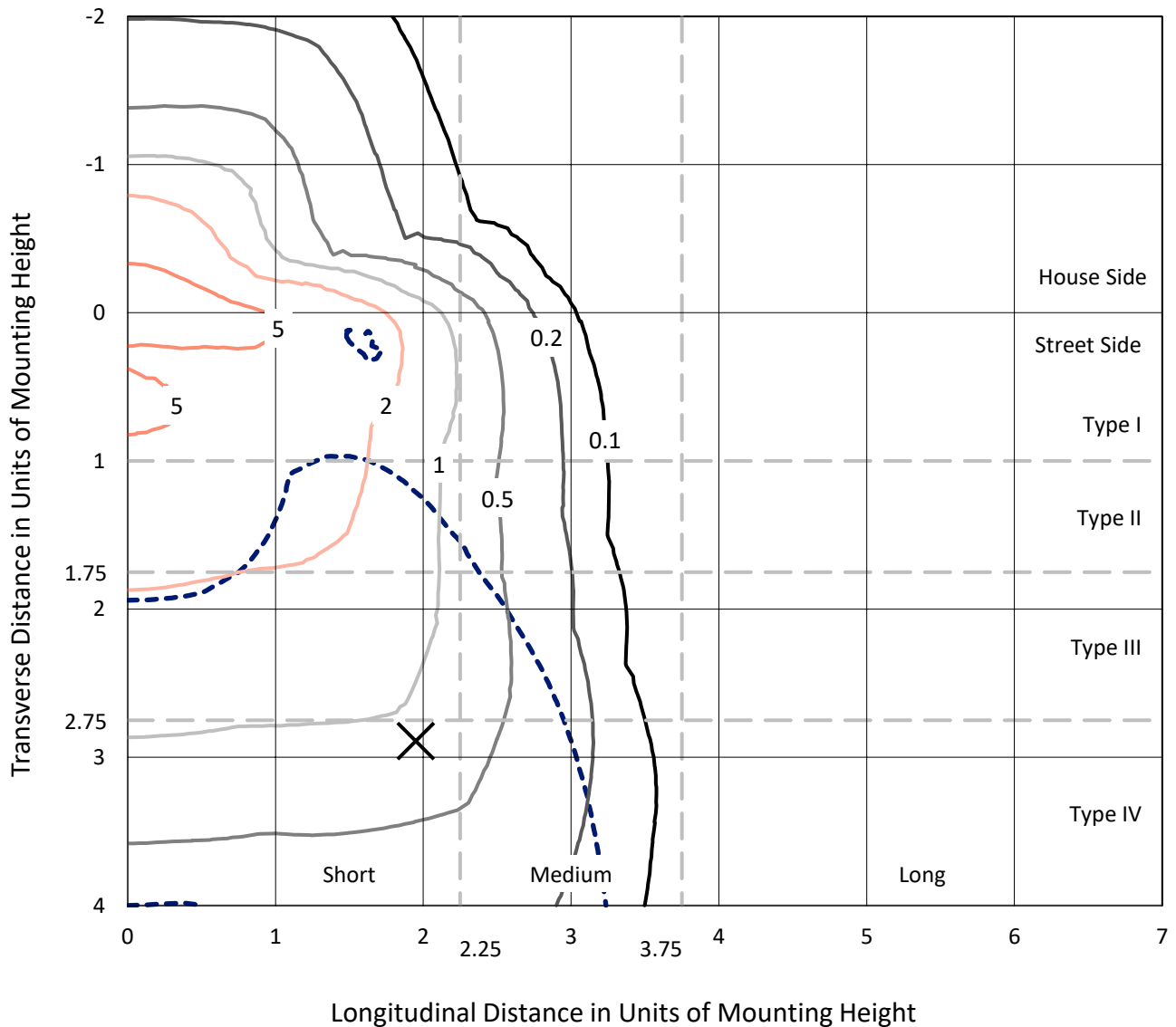
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P648570  
 CATALOG NUMBER: GALN-SA7B-835-U-T4FT

### Iso-Footcandle Lines of Horizontal Illumination

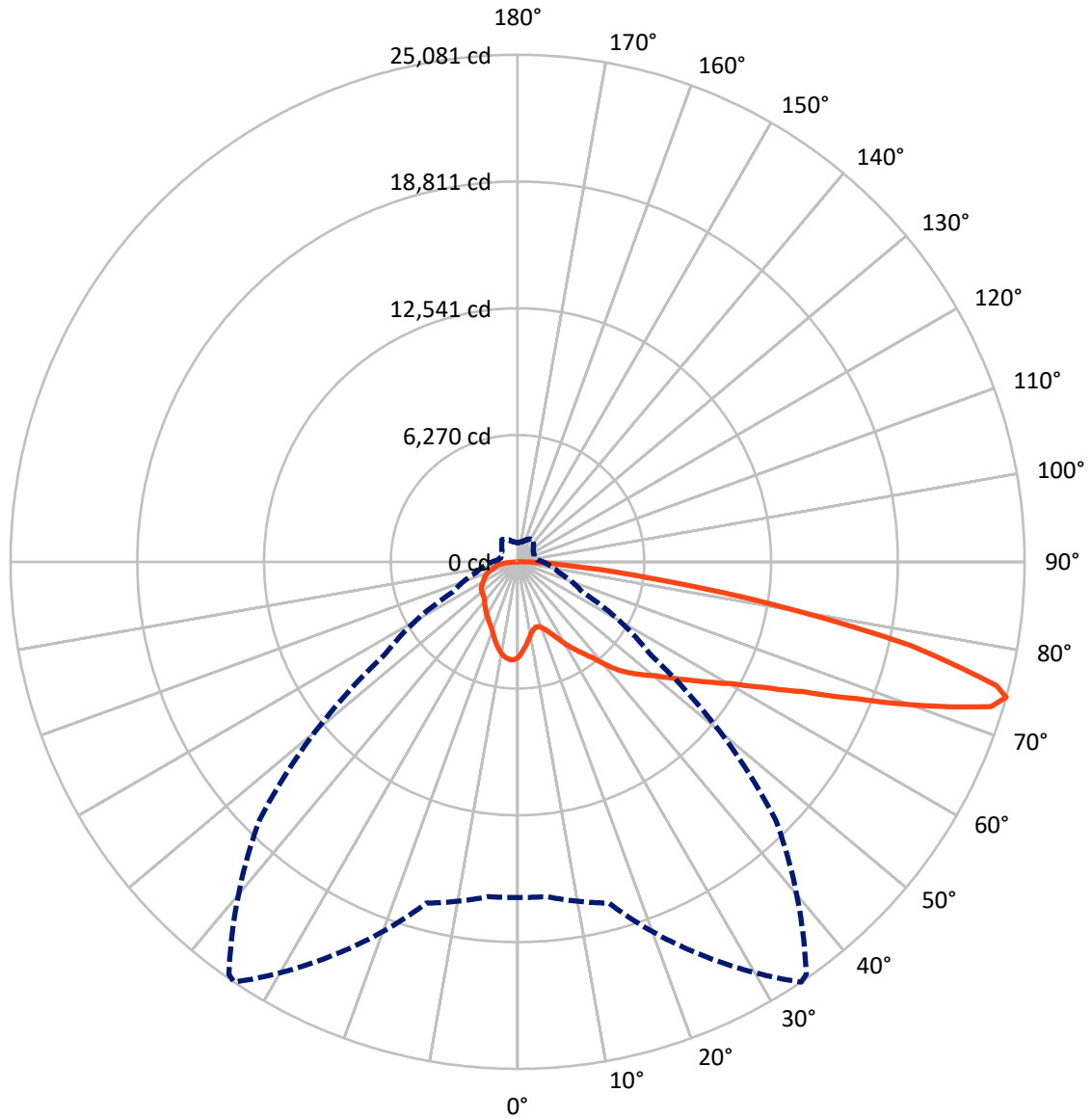
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P648570  
CATALOG NUMBER: GALN-SA7B-835-U-T4FT

### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P648570  
 CATALOG NUMBER: GALN-SA7B-835-U-T4FT

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6589.5	0.0	6589.5
	% Fixture	21.3	0.0	21.3
<b>Street Side</b>	Lumens	24375.1	0.0	24375.1
	% Fixture	78.7	0.0	78.7
<b>Total</b>	Lumens	30964.5	0.0	30964.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.0	1.4
10°-20°	1177.0	3.8
20°-30°	1940.6	6.3
30°-40°	2906.7	9.4
40°-50°	4225.6	13.6
50°-60°	5902.2	19.1
60°-70°	7389.2	23.9
70°-80°	6110.3	19.7
80°-90°	882.9	2.9
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°	30964.5	100.0
0°-180°	30964.5	100.0

**Coefficient of Utilization**



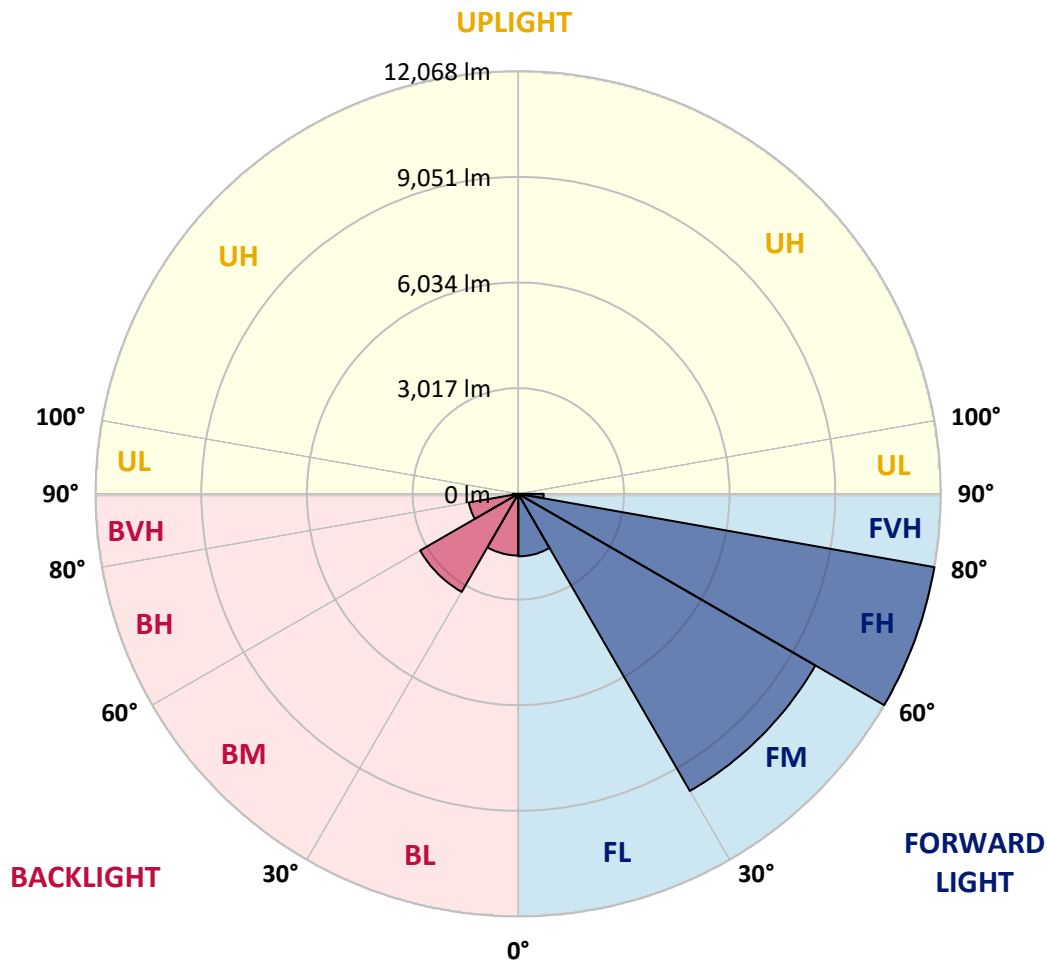
REPORT NUMBER: P648570  
 CATALOG NUMBER: GALN-SA7B-835-U-T4FT

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1785.0	5.8			
FM (30°-60°)	9798.5	31.6			
FH (60°-80°)	12068.3	39.0			G5
FVH (80°-90°)	723.3	2.3			G4/750
BL (0°-30°)	1762.6	5.7	B3/2500		
BM (30°-60°)	3236.1	10.5	B3/5000		
BH (60°-80°)	1431.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	159.6	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 IV Short





REPORT NUMBER: P648570  
 CATALOG NUMBER: GALN-SA7B-835-U-T4FT

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7
2.5°	4369.1	4391.5	4403.4	4446.3	4456.6	4470.4	4506.4	4554.4	4616.2	4671.1	4719.1
5°	4005.5	4039.8	4060.4	4098.1	4171.9	4178.7	4274.8	4384.6	4509.8	4626.4	4722.5
7.5°	3660.7	3698.4	3715.6	3784.2	3882.0	3897.4	4038.1	4211.4	4420.6	4597.3	4744.8
10°	3401.7	3420.5	3458.3	3509.7	3626.4	3636.6	3820.2	4051.8	4322.9	4583.6	4782.6
12.5°	3261.0	3271.3	3279.8	3334.7	3449.7	3465.2	3657.2	3919.7	4245.7	4593.9	4844.3
15°	3281.6	3285.0	3247.3	3257.6	3350.2	3372.5	3562.9	3832.2	4197.6	4619.6	4937.0
17.5°	3454.8	3442.9	3350.2	3302.1	3367.4	3377.6	3544.0	3797.9	4175.3	4667.6	5033.0
20°	3727.5	3710.4	3550.9	3444.6	3482.3	3490.8	3605.8	3823.6	4197.6	4746.5	5182.3
22.5°	4067.2	4060.4	3818.5	3689.8	3688.2	3688.2	3748.1	3916.3	4264.5	4854.6	5338.3
25°	4542.4	4506.4	4190.8	4024.4	3978.0	3974.6	3967.8	4068.9	4350.3	4969.5	5523.6
27.5°	5029.6	4967.8	4686.5	4430.9	4331.4	4319.4	4274.8	4285.1	4460.0	5099.9	5734.6
30°	5467.0	5427.5	5163.4	4880.4	4762.0	4734.6	4611.0	4554.4	4643.6	5334.9	6070.8
32.5°	5801.5	5777.5	5571.7	5314.4	5139.4	5134.2	4954.1	4907.8	4930.1	5619.7	6455.1
35°	6072.6	6081.1	5976.5	5753.5	5552.8	5523.6	5403.6	5345.2	5280.0	6031.4	6938.9
37.5°	6443.1	6461.9	6455.1	6263.0	6017.7	6024.5	5997.1	5901.0	5727.7	6491.1	7475.8
40°	6851.3	6865.1	6863.4	6789.6	6660.9	6667.8	6657.5	6547.7	6288.7	7076.0	8072.7
42.5°	7415.7	7350.6	7180.7	7254.5	7330.0	7362.5	7432.9	7328.3	6973.2	7700.5	8633.7
45°	8047.0	7923.5	7539.2	7573.6	7853.2	7914.9	8302.6	8158.5	7715.9	8417.5	9294.1
47.5°	8445.0	8323.1	7999.0	7992.1	8362.6	8422.7	9108.8	9055.6	8391.8	9191.2	10100.3
50°	8800.1	8782.9	8417.5	8505.0	8866.9	8956.2	9987.1	9937.4	9066.0	10103.8	10978.6
52.5°	9326.7	9187.7	8896.1	9076.2	9554.9	9671.5	10858.6	10712.8	9685.2	10910.0	11831.2
55°	9563.4	9530.8	9513.7	9669.7	10326.8	10410.8	11705.9	11371.4	10213.5	11592.7	12479.6
57.5°	10196.4	10136.3	10306.2	10412.6	11236.0	11364.6	12591.1	12059.3	10676.7	12134.8	12795.2
60°	11016.3	10983.8	11139.9	11332.0	12251.4	12447.0	13599.8	12646.0	11049.0	12407.6	12622.0
62.5°	12241.2	12237.7	12208.5	12620.2	13690.7	13870.8	14757.7	13217.2	11107.2	12203.4	11726.5
65°	13997.8	13936.0	13682.1	14131.6	15481.6	15692.6	15963.6	13536.3	10755.6	11155.3	9873.9
67.5°	15834.9	15831.6	15625.7	16208.9	18053.0	18270.8	17471.5	13466.0	9779.5	9036.8	7012.6
70°	17358.2	17284.5	17547.0	19101.1	21338.0	21590.1	18790.6	12637.4	7789.7	5967.9	4166.7
72.5°	17723.6	17727.0	18272.6	21331.1	24492.6	24532.1	19265.8	10242.7	5213.1	3291.9	2084.2
74°	16598.3	16627.5	17473.2	21442.6	25081.0	24902.6	18051.3	8050.4	3525.1	2149.4	1502.7
75°	15150.5	14967.0	16190.0	20699.9	24470.3	24278.2	16629.2	6460.2	2689.8	1717.1	1315.8
77.5°	8100.1	8287.1	10174.1	15447.3	19879.9	19658.6	11275.4	3098.0	1452.9	1195.6	946.9
80°	2883.6	3180.4	4470.4	8083.0	12745.5	12814.1	5381.2	1420.4	1022.4	881.7	669.0
82.5°	1176.8	1209.3	1919.5	3586.9	6472.3	6534.0	2197.4	844.0	730.8	607.2	399.7
85°	459.7	473.5	849.2	1612.5	2761.8	2942.0	759.9	446.0	449.4	348.2	204.1
87.5°	154.4	175.0	348.2	536.9	938.3	919.5	221.3	132.1	161.2	151.0	63.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P648570  
 CATALOG NUMBER: GALN-SA7B-835-U-T4FT

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7	4727.7
2.5°	4743.1	4775.7	4798.0	4822.0	4844.3	4851.2	4846.1	4861.5	4863.2	4864.9	4866.6
5°	4770.6	4815.1	4858.0	4882.1	4892.3	4883.8	4854.6	4839.2	4825.5	4815.1	4818.6
7.5°	4808.3	4871.7	4911.2	4921.5	4894.1	4854.6	4782.6	4726.0	4689.9	4665.9	4664.2
10°	4866.6	4928.4	4960.9	4931.8	4856.3	4760.2	4647.0	4540.7	4460.0	4436.1	4434.4
12.5°	4940.4	5010.7	5009.0	4923.2	4791.2	4619.6	4436.1	4312.5	4202.8	4147.9	4170.2
15°	5036.4	5089.7	5039.9	4885.5	4676.2	4441.2	4214.7	4046.6	3923.1	3864.8	3868.3
17.5°	5147.9	5194.3	5062.2	4818.6	4514.9	4213.0	3950.6	3791.1	3693.3	3650.4	3647.0
20°	5286.9	5300.6	5062.2	4701.9	4307.4	3947.2	3696.7	3585.2	3530.3	3508.0	3514.9
22.5°	5436.1	5408.7	5034.7	4537.3	4034.6	3669.3	3501.2	3451.4	3424.0	3420.5	3424.0
25°	5604.2	5527.0	4978.2	4314.3	3749.9	3429.1	3331.4	3339.9	3345.1	3345.1	3357.0
27.5°	5810.1	5655.7	4883.8	4032.9	3417.1	3206.1	3178.7	3238.7	3266.1	3271.3	3279.8
30°	6081.1	5796.4	4727.7	3681.3	3134.0	3005.4	3053.5	3134.0	3165.0	3183.8	3180.4
32.5°	6403.6	5950.7	4516.7	3329.6	2905.9	2864.8	2923.1	3005.4	3039.7	3050.0	3036.2
35°	6782.7	6125.7	4238.8	3000.2	2706.9	2730.9	2799.5	2825.3	2856.1	2856.1	2863.0
37.5°	7191.0	6266.4	3899.1	2698.4	2552.5	2640.0	2689.8	2665.7	2652.0	2634.9	2643.4
40°	7606.1	6371.0	3458.3	2399.9	2398.2	2545.7	2559.4	2490.8	2435.9	2418.8	2410.2
42.5°	7968.0	6436.2	3060.3	2168.3	2252.3	2453.1	2463.3	2353.5	2266.1	2214.6	2197.4
45°	8395.2	6511.7	2670.9	1976.1	2116.8	2379.3	2405.0	2257.5	2128.8	2020.8	1993.3
47.5°	8980.1	6683.2	2363.8	1826.9	2019.0	2332.9	2369.0	2178.5	2008.7	1868.1	1845.8
50°	9640.6	6918.3	2125.4	1725.7	1943.6	2291.8	2336.4	2098.0	1897.2	1741.2	1724.0
52.5°	10246.2	7045.2	1919.5	1634.7	1869.8	2216.3	2293.5	2039.6	1787.4	1614.2	1598.7
55°	10577.2	6839.3	1717.1	1545.6	1768.6	2118.6	2233.4	1959.0	1681.1	1547.3	1525.0
57.5°	10621.8	6413.9	1533.6	1449.5	1662.2	1998.5	2121.9	1861.2	1612.5	1501.0	1482.1
60°	10277.0	5779.2	1391.2	1370.6	1554.2	1862.9	1996.7	1775.5	1542.1	1449.5	1430.6
62.5°	9419.3	5089.7	1291.7	1298.5	1444.4	1720.6	1904.1	1693.1	1475.3	1392.9	1375.7
65°	7944.1	4201.0	1195.6	1224.8	1346.6	1609.1	1820.1	1624.5	1408.4	1350.0	1334.6
67.5°	5518.5	3032.9	1116.7	1147.6	1254.0	1495.8	1722.3	1550.7	1332.9	1302.0	1278.0
70°	3055.1	1866.4	1024.1	1060.1	1157.9	1368.9	1612.5	1439.2	1223.1	1209.3	1175.0
72.5°	1605.6	1188.8	919.5	958.9	1027.5	1205.9	1444.4	1317.4	1115.0	1056.7	1012.1
74°	1254.0	974.4	849.2	890.3	936.6	1109.9	1344.9	1229.9	1037.8	969.2	934.9
75°	1092.8	868.0	789.1	842.3	883.5	1044.7	1267.7	1168.2	995.0	929.7	898.9
77.5°	772.0	650.1	645.0	708.5	730.8	916.0	1142.5	1063.5	886.9	818.2	789.1
80°	542.1	487.2	511.2	550.7	581.5	809.7	1060.1	919.5	727.3	646.7	636.4
82.5°	353.4	319.1	365.3	401.4	411.7	597.0	856.0	698.2	530.1	430.6	399.7
85°	162.9	159.5	209.3	204.1	202.4	291.6	507.8	408.3	305.4	228.2	214.5
87.5°	41.2	39.5	51.4	42.9	51.4	44.6	46.4	12.0	1.7	0.0	0.0
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)