

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: P457304

Luminaire Tested: **GALN-SA8C-827-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457304  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41365 lumens  
Efficiency: N/A  
Efficacy: 96.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

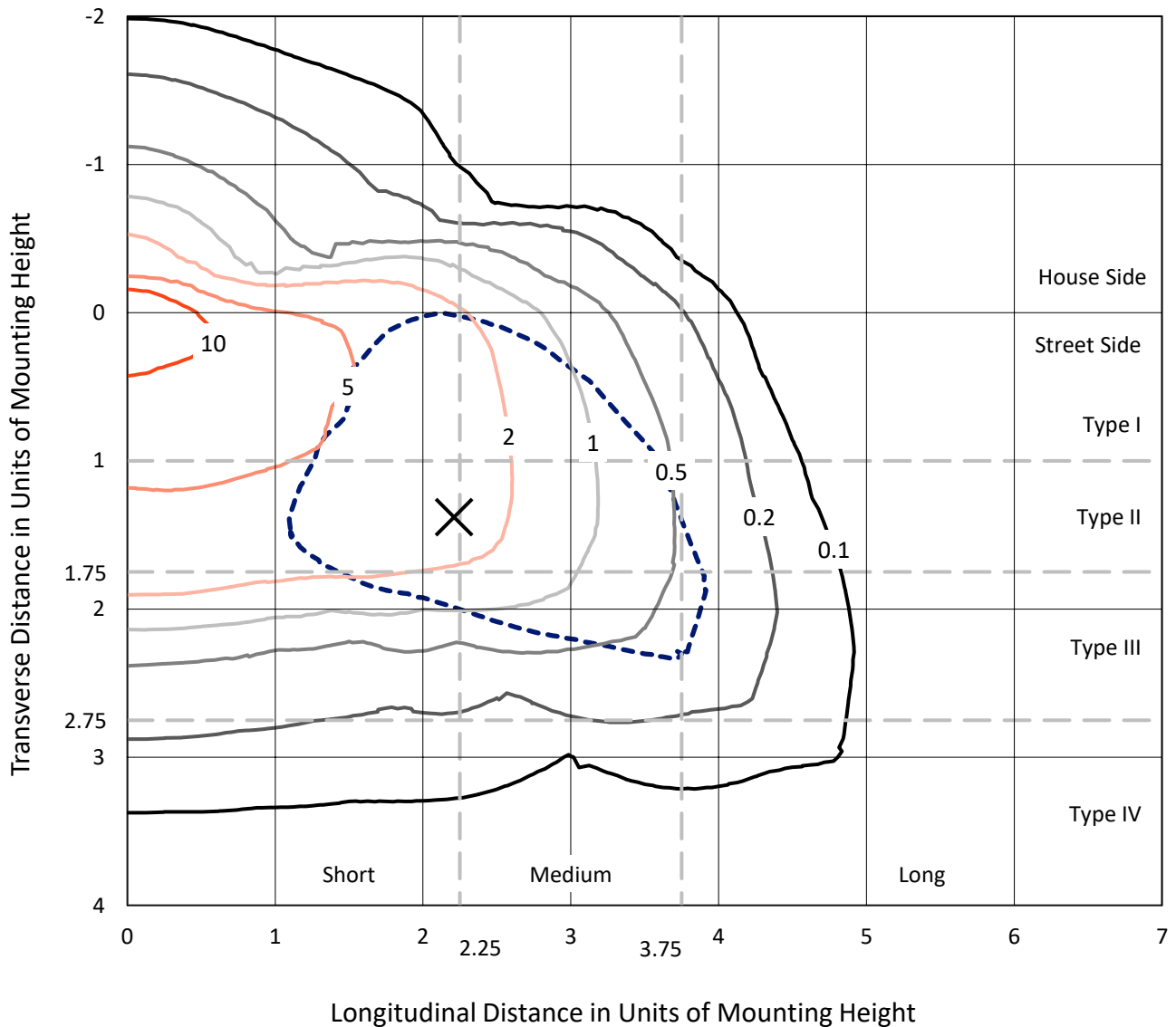
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P457304  
 CATALOG NUMBER: GALN-SA8C-827-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

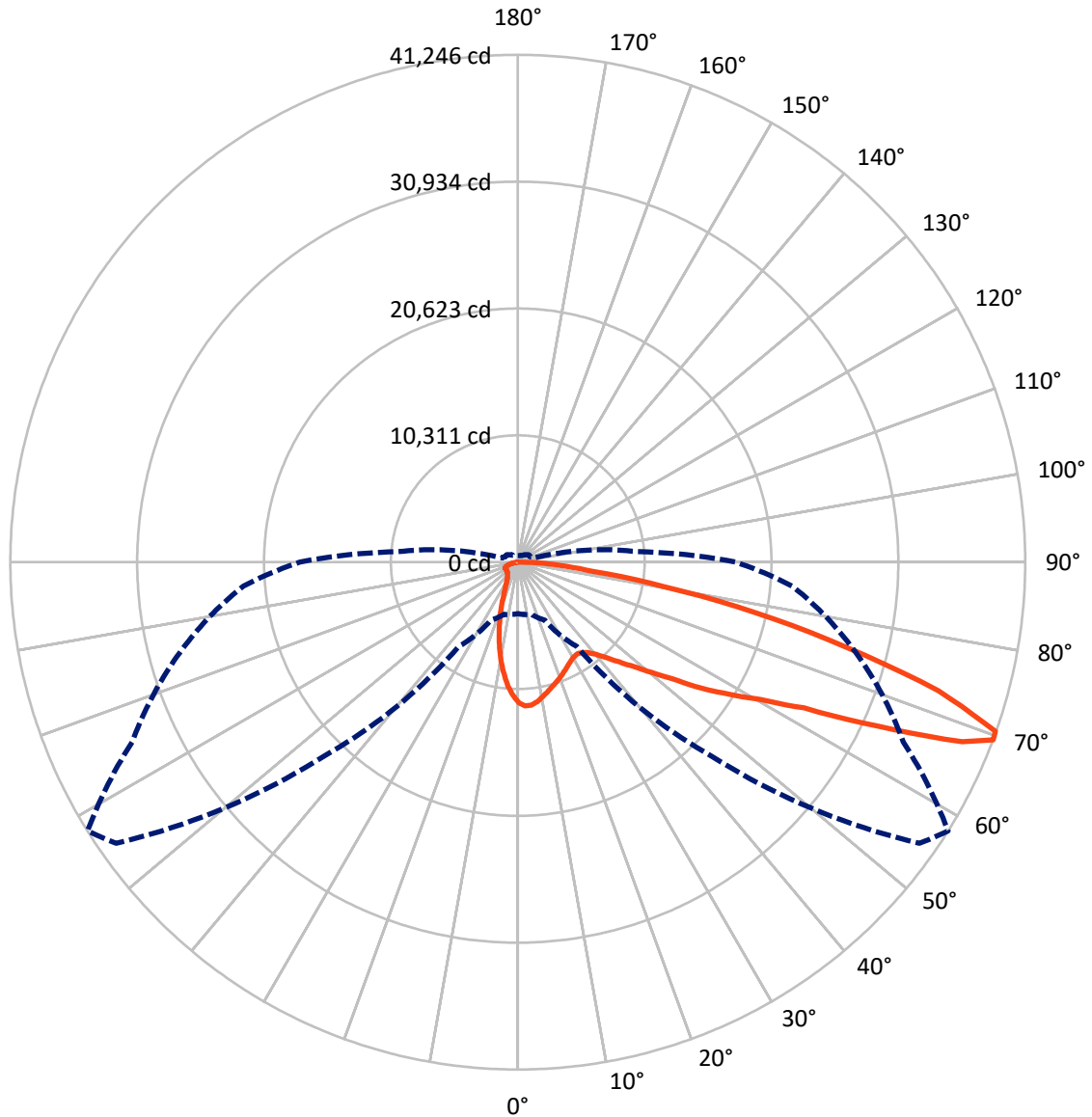
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 fc  
 Type III - Short - N/A

REPORT NUMBER: P457304  
CATALOG NUMBER: GALN-SA8C-827-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P457304

CATALOG NUMBER: GALN-SA8C-827-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6062.0	0.0	6062.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	35303.0	0.0	35303.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	41365.0	0.0	41365.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	970.8	2.3
10°-20°	2131.6	5.2
20°-30°	2754.1	6.7
30°-40°	3577.0	8.6
40°-50°	5200.5	12.6
50°-60°	8298.2	20.1
60°-70°	11085.4	26.8
70°-80°	6390.3	15.4
80°-90°	957.1	2.3
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°	41365.0	100.0
0°-180°	41365.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P457304

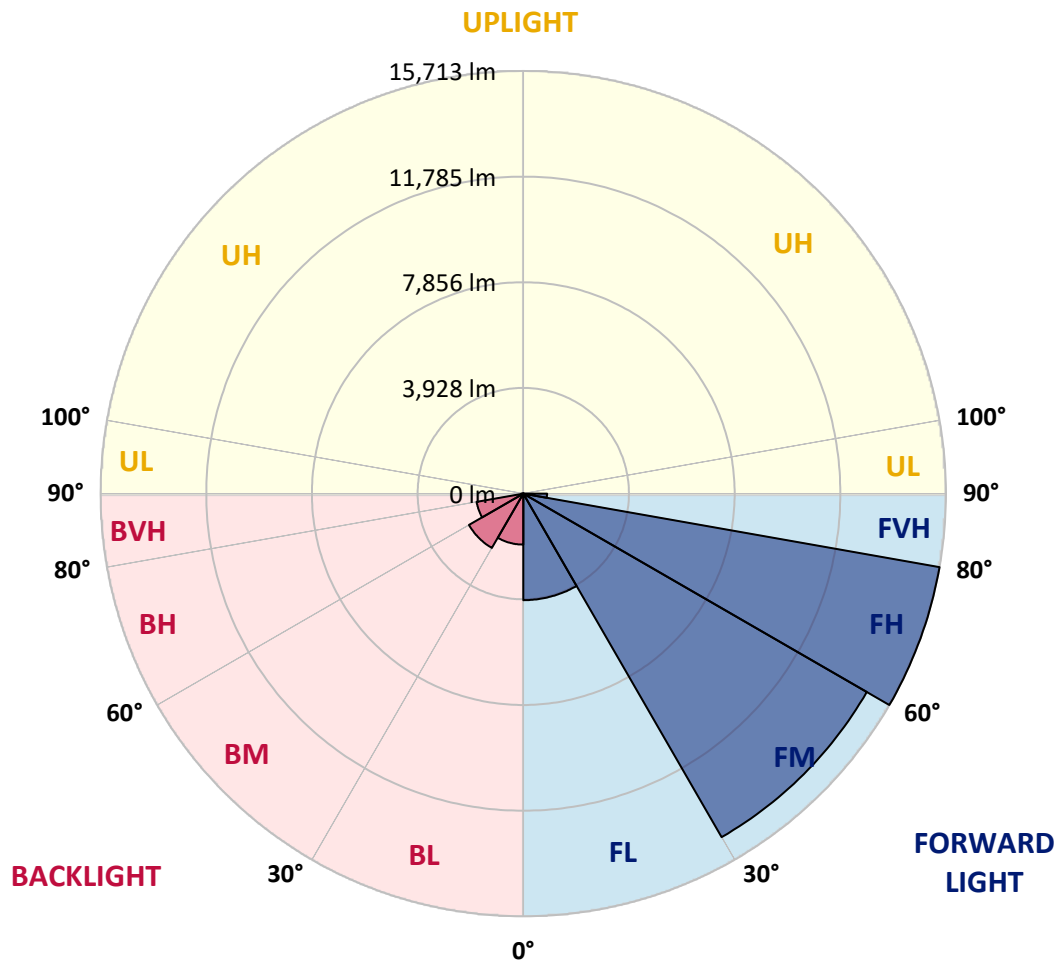
CATALOG NUMBER: GALN-SA8C-827-U-SL3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3961.7	9.6			
FM	(30°-60°)	14744.5	35.6			
FH	(60°-80°)	15713.0	38.0			G5
FVH	(80°-90°)	883.8	2.1			G5
BL	(0°-30°)	1894.7	4.6	B3/2500		
BM	(30°-60°)	2331.3	5.6	B2/2500		
BH	(60°-80°)	1762.7	4.3	B3/2500		G3/2500
BVH	(80°-90°)	73.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





REPORT NUMBER: P457304

CATALOG NUMBER: GALN-SA8C-827-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9
2.5°	11855.3	11887.6	11878.4	11866.9	11848.4	11797.7	11714.6	11700.8	11647.7	11534.7	11394.0
5°	11673.1	11700.8	11703.1	11719.2	11742.3	11733.1	11673.1	11666.2	11587.7	11435.5	11200.2
7.5°	11047.9	11084.8	11165.6	11255.5	11336.3	11412.4	11430.9	11442.4	11394.0	11218.6	10904.9
10°	10344.3	10381.2	10418.1	10551.9	10750.3	10939.5	11096.4	11117.1	11128.7	10967.2	10584.2
12.5°	9564.6	9640.7	9719.1	9917.5	10182.8	10480.4	10757.2	10801.1	10879.5	10757.2	10307.4
15°	8902.5	8980.9	9093.9	9271.6	9592.2	10021.3	10411.2	10482.7	10637.3	10575.0	10049.0
17.5°	8443.4	8471.1	8549.5	8752.5	9098.6	9550.7	10072.1	10215.1	10462.0	10445.8	9827.5
20°	8081.2	8115.8	8164.2	8288.8	8648.7	9126.2	9756.0	9940.6	10275.1	10330.5	9608.4
22.5°	7928.9	7954.3	7947.4	8014.3	8258.8	8738.7	9435.4	9654.5	10109.0	10252.0	9405.4
25°	7938.2	7961.2	7926.6	7910.5	8055.8	8397.2	9100.9	9380.0	9975.2	10199.0	9220.8
27.5°	8092.7	8108.9	8044.3	7979.7	7991.2	8185.0	8824.0	9133.2	9862.1	10222.0	9066.3
30°	8300.4	8330.3	8288.8	8210.4	8125.0	8134.3	8646.4	8950.9	9809.1	10302.8	8992.4
32.5°	8568.0	8595.6	8577.2	8514.9	8404.2	8281.9	8602.6	8884.0	9813.7	10466.6	8976.3
35°	8849.4	8904.8	8934.8	8930.1	8840.2	8627.9	8775.6	9008.6	9924.4	10741.1	9070.9
37.5°	9167.8	9213.9	9343.1	9426.1	9343.1	9096.2	9165.5	9326.9	10169.0	11137.9	9278.5
40°	9476.9	9546.1	9735.3	9993.6	9961.3	9744.5	9760.6	9866.8	10600.4	11728.5	9684.5
42.5°	9799.9	9882.9	10212.8	10595.8	10671.9	10503.5	10547.3	10641.9	11214.0	12547.4	10381.2
45°	10215.1	10314.3	10720.3	11197.9	11497.8	11394.0	11518.5	11564.7	12035.3	13613.2	11299.4
47.5°	10750.3	10865.7	11366.3	11961.5	12385.9	12480.5	12697.4	12669.7	13052.6	14875.1	12489.7
50°	11652.3	11716.9	12189.8	12796.6	13380.2	13807.0	14042.3	14086.1	14314.5	16102.4	13820.8
52.5°	12725.1	12782.7	13124.2	13654.7	14386.0	15290.4	15871.7	15728.7	15784.1	17597.3	15378.0
55°	13931.6	14028.5	14245.3	14598.3	15546.4	16877.5	18044.8	18079.5	17465.8	19027.6	16870.6
57.5°	14865.9	15029.7	15401.1	15904.0	17105.9	18642.3	20211.1	20234.1	19449.8	20554.8	18517.8
60°	14395.3	14589.1	15438.0	16663.0	19152.2	21722.1	22799.4	22667.9	21380.7	22294.2	20527.1
62.5°	12365.2	12399.8	13634.0	15548.7	19782.0	25842.3	26652.0	26096.1	23957.5	24499.7	22568.7
65°	8002.8	8228.8	9207.0	11889.9	17712.6	28128.5	33402.1	32117.2	27570.2	27002.7	24278.2
67.5°	5052.2	4994.5	5400.5	6789.3	12182.9	26114.5	39162.5	38959.5	32294.8	28582.9	23869.9
69°	4189.4	4254.0	4392.4	5204.4	8383.4	22296.5	39843.1	41245.7	34585.6	28458.4	22386.5
70°	3799.5	3829.5	3974.8	4613.9	6468.6	18674.6	38726.5	41183.4	35485.3	27937.0	21311.5
72.5°	3015.2	3012.9	3262.0	3838.7	4835.3	10660.3	31798.8	35755.2	34479.5	25510.1	17608.8
75°	2290.8	2327.7	2602.2	3248.2	4454.7	5825.0	22190.4	27535.6	27537.9	20148.8	10987.9
77.5°	1651.8	1674.8	1995.5	2726.8	4196.3	4722.3	14780.5	19749.7	18566.2	9232.4	3453.5
80°	1082.0	1095.8	1340.3	2159.3	3783.4	4454.7	8764.0	12088.3	8757.1	2450.0	1141.9
82.5°	592.9	662.1	819.0	1398.0	3035.9	4115.6	5326.7	6118.0	3285.1	1091.2	595.2
85°	297.6	316.1	461.4	816.7	1984.0	3405.0	3709.6	3508.8	1695.6	542.1	309.1
87.5°	87.7	110.7	191.5	316.1	805.1	1774.0	2064.7	1852.5	652.9	196.1	64.6
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: P457304  
 CATALOG NUMBER: GALN-SA8C-827-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9	11430.9
2.5°	11336.3	11294.8	11110.2	10944.1	10791.8	10630.4	10494.2	10374.3	10385.8	10388.1	10265.9
5°	11077.9	10983.3	10632.7	10305.1	10028.2	9677.6	9377.7	9183.9	9087.0	8957.8	9004.0
7.5°	10727.2	10545.0	10058.2	9513.8	9004.0	8549.5	8055.8	7716.7	7499.8	7289.9	7317.6
10°	10365.1	10072.1	9363.9	8644.1	7984.3	7257.6	6627.8	6088.0	5686.6	5536.6	5437.4
12.5°	9993.6	9608.4	8708.7	7751.3	6840.1	5970.3	5077.6	4498.5	4055.6	3820.3	3850.3
15°	9654.5	9186.2	8025.8	6858.5	5675.1	4639.2	3748.8	3197.4	2888.3	2823.7	2860.6
17.5°	9340.8	8727.1	7386.8	5991.1	4609.3	3478.9	2816.8	2505.3	2380.8	2346.2	2343.8
20°	9017.8	8337.3	6669.3	5063.7	3591.9	2696.8	2311.5	2166.2	2143.1	2157.0	2159.3
22.5°	8690.2	7855.1	5931.1	4143.3	2860.6	2205.4	2020.9	1981.7	2000.1	2032.4	2037.0
25°	8388.0	7430.6	5220.6	3335.8	2283.9	1937.8	1847.9	1847.9	1889.4	1937.8	1940.1
27.5°	8138.9	7020.0	4512.4	2648.4	1912.4	1744.0	1714.1	1730.2	1787.9	1824.8	1827.1
30°	7933.6	6637.1	3843.4	2122.4	1681.8	1589.5	1582.6	1610.2	1651.8	1686.4	1688.7
32.5°	7779.0	6300.2	3218.2	1783.3	1522.6	1471.8	1469.5	1490.3	1513.3	1522.6	1531.8
35°	7719.0	6021.1	2646.1	1568.7	1416.5	1384.2	1384.2	1381.9	1391.1	1395.7	1400.3
37.5°	7767.5	5806.6	2203.1	1430.3	1338.0	1315.0	1301.1	1287.3	1282.7	1282.7	1285.0
40°	7972.8	5693.5	1873.2	1340.3	1282.7	1248.1	1222.7	1206.5	1190.4	1195.0	1199.6
42.5°	8408.8	5714.3	1649.5	1280.3	1234.2	1185.8	1148.9	1130.4	1118.9	1132.7	1130.4
45°	9103.2	5921.9	1506.4	1238.8	1185.8	1123.5	1088.9	1070.4	1070.4	1091.2	1098.1
47.5°	10074.4	6318.7	1430.3	1206.5	1148.9	1075.0	1040.4	1026.6	1031.2	1065.8	1068.1
50°	11260.2	7008.5	1416.5	1190.4	1130.4	1040.4	1001.2	987.4	998.9	1035.8	1040.4
52.5°	12568.2	7896.6	1483.4	1192.7	1114.2	1019.7	968.9	948.2	959.7	989.7	998.9
55°	14118.4	9008.6	1656.4	1201.9	1091.2	1008.1	945.8	899.7	913.5	934.3	936.6
57.5°	15701.0	10411.2	1960.9	1204.2	1072.7	987.4	906.6	846.6	846.6	860.5	867.4
60°	17634.2	11938.4	2362.3	1206.5	1075.0	957.4	853.6	786.7	777.4	784.4	786.7
62.5°	19553.6	13216.4	2429.2	1199.6	1098.1	927.4	795.9	726.7	710.5	708.2	703.6
65°	20400.2	12978.8	1990.9	1167.3	1123.5	908.9	749.8	669.0	641.3	632.1	632.1
67.5°	19020.7	10978.7	1497.2	1123.5	1107.3	890.5	705.9	620.6	588.3	569.8	569.8
69°	17724.2	9765.3	1344.9	1093.5	1065.8	860.5	678.2	595.2	556.0	535.2	528.3
70°	16723.0	8930.1	1280.3	1068.1	1026.6	825.9	657.5	576.7	532.9	509.8	505.2
72.5°	13345.6	7006.2	1121.2	971.2	874.3	694.4	583.7	519.1	477.5	452.2	445.2
75°	7691.3	3797.2	929.7	844.3	703.6	539.8	493.7	452.2	419.9	396.8	389.9
77.5°	2366.9	1467.2	673.6	666.7	516.8	417.6	394.5	378.3	355.3	329.9	325.3
80°	996.6	747.4	456.8	449.9	343.7	290.7	283.8	281.4	272.2	251.5	244.5
82.5°	546.7	422.2	318.4	276.8	207.6	168.4	175.3	177.6	170.7	150.0	136.1
85°	267.6	230.7	154.6	124.6	94.6	60.0	57.7	69.2	64.6	46.1	50.8
87.5°	53.1	64.6	41.5	18.5	9.2	0.0	0.0	0.0	0.0	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)