

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: P456231

Luminaire Tested: **GALN-SA7C-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456231  
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-SA7C-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 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: 40591 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

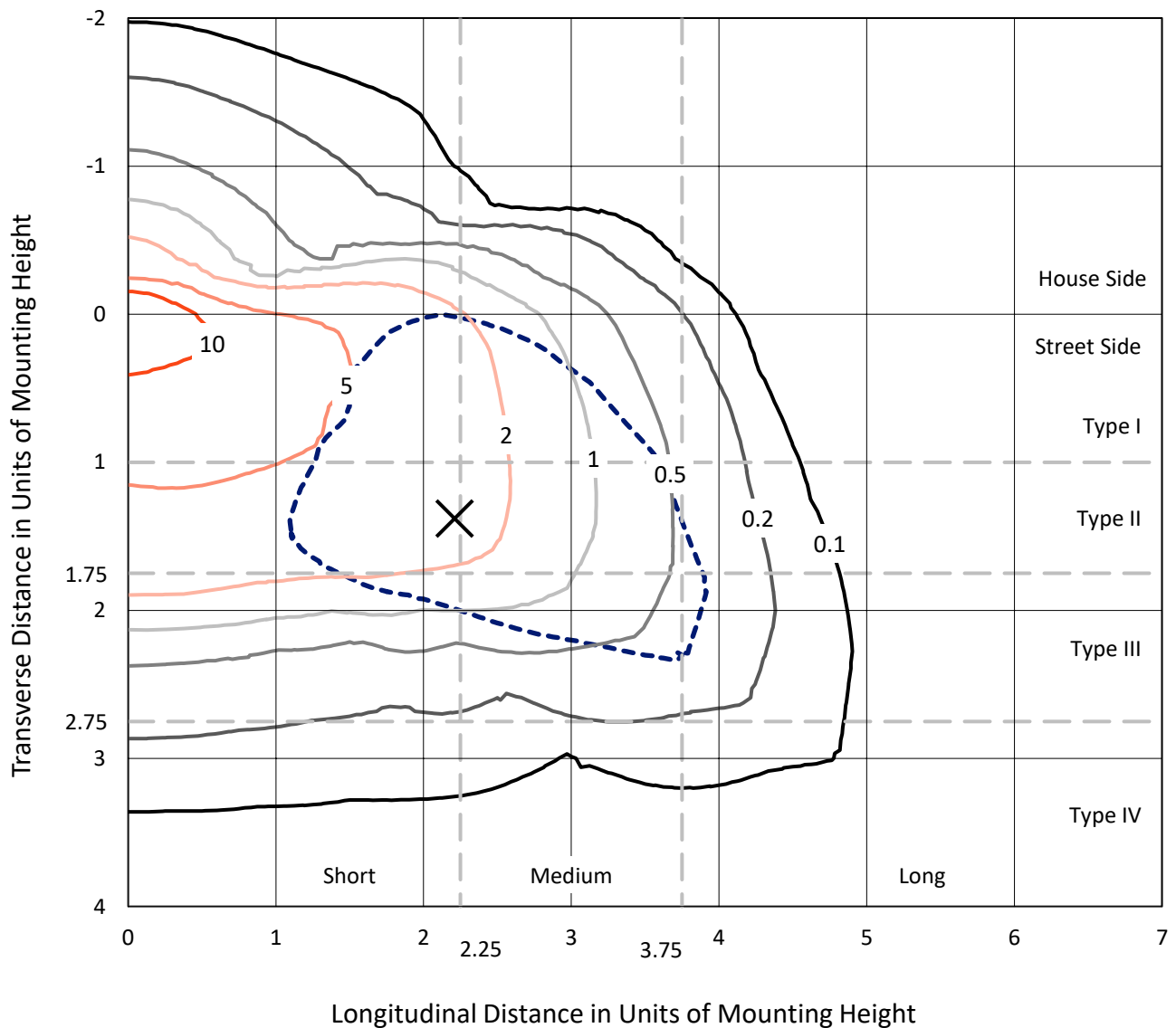
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456231  
 CATALOG NUMBER: GALN-SA7C-727-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

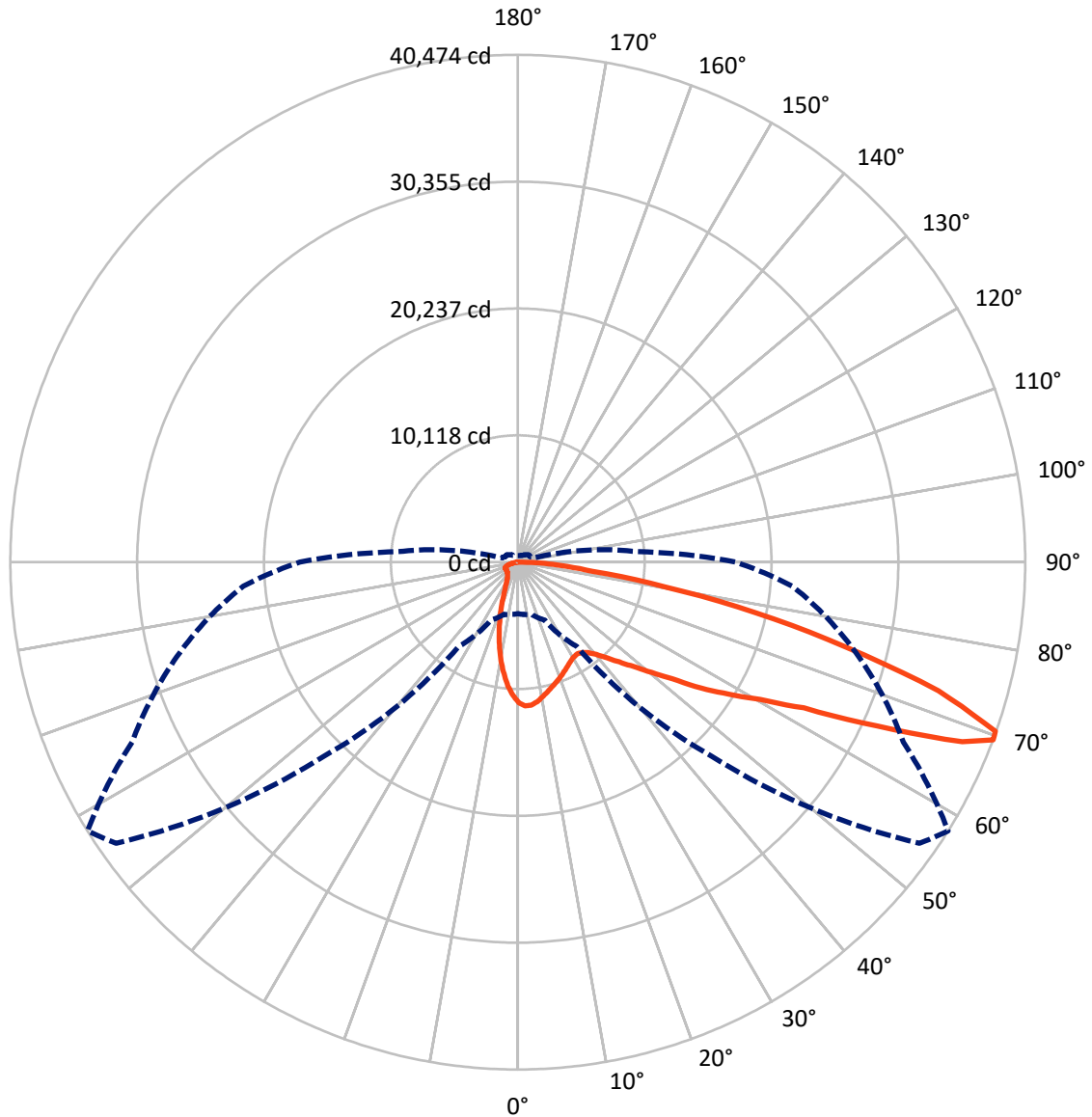
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P456231  
CATALOG NUMBER: GALN-SA7C-727-U-SL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P456231

CATALOG NUMBER: GALN-SA7C-727-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5948.6	0.0	5948.6
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	34642.4	0.0	34642.4
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	40591.0	0.0	40591.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	952.6	2.3
10°-20°	2091.7	5.2
20°-30°	2702.5	6.7
30°-40°	3510.1	8.6
40°-50°	5103.2	12.6
50°-60°	8143.0	20.1
60°-70°	10878.0	26.8
70°-80°	6270.7	15.4
80°-90°	939.2	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°	40591.0	100.0
0°-180°	40591.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456231

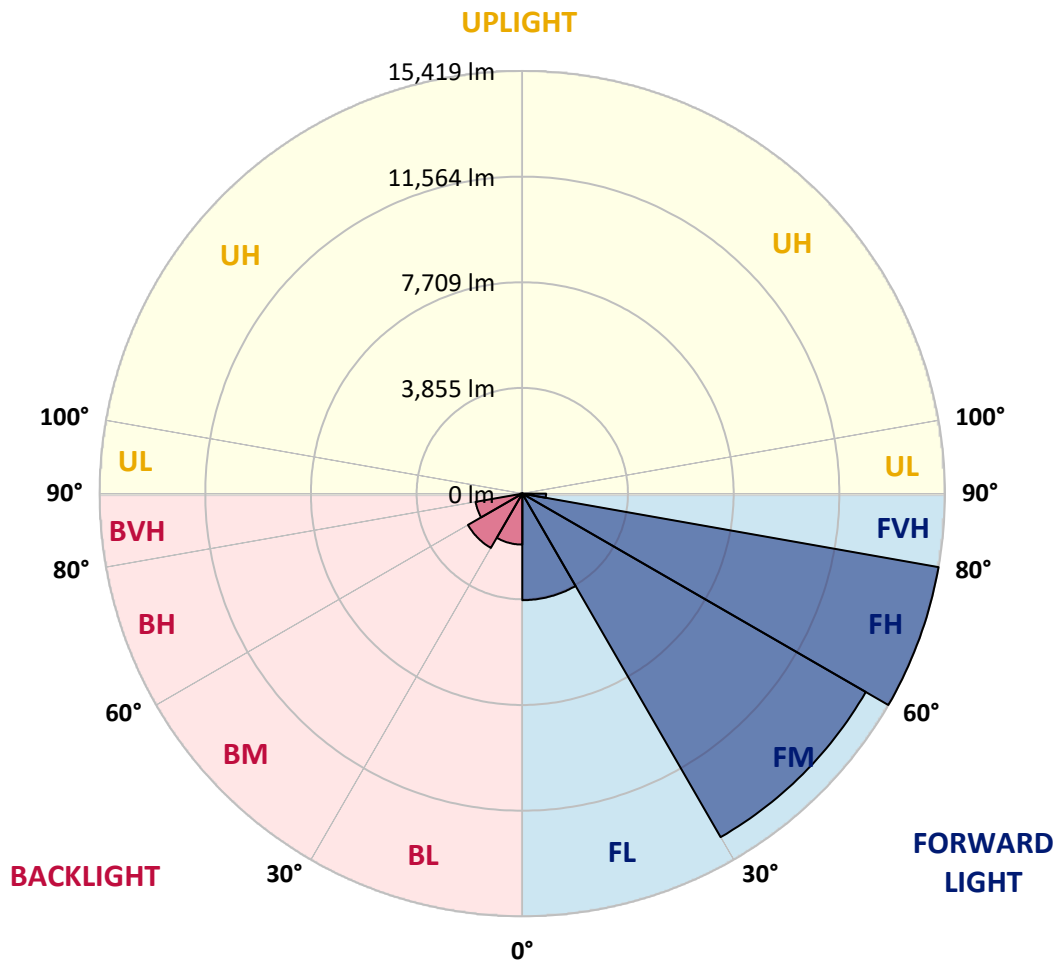
CATALOG NUMBER: GALN-SA7C-727-U-SL3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3887.6	9.6			
FM (30°-60°)	14468.6	35.6			
FH (60°-80°)	15419.0	38.0			G5
FVH (80°-90°)	867.3	2.1			G5
BL (0°-30°)	1859.3	4.6	B3/2500		
BM (30°-60°)	2287.6	5.6	B2/2500		
BH (60°-80°)	1729.7	4.3	B3/2500		G3/2500
BVH (80°-90°)	72.0	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: P456231

CATALOG NUMBER: GALN-SA7C-727-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0
2.5°	11633.5	11665.2	11656.1	11644.8	11626.7	11576.9	11495.4	11481.8	11429.8	11318.8	11180.8
5°	11454.7	11481.8	11484.1	11499.9	11522.6	11513.5	11454.7	11447.9	11370.9	11221.5	10990.6
7.5°	10841.2	10877.4	10956.6	11044.9	11124.2	11198.9	11217.0	11228.3	11180.8	11008.7	10700.8
10°	10150.7	10187.0	10223.2	10354.5	10549.2	10734.8	10888.7	10909.1	10920.4	10762.0	10386.2
12.5°	9385.6	9460.3	9537.3	9731.9	9992.3	10284.3	10556.0	10599.0	10675.9	10556.0	10114.5
15°	8735.9	8812.9	8923.8	9098.1	9412.8	9833.8	10216.4	10286.6	10438.2	10377.1	9861.0
17.5°	8285.4	8312.6	8389.5	8588.7	8928.3	9372.0	9883.6	10024.0	10266.2	10250.3	9643.7
20°	7930.0	7963.9	8011.5	8133.7	8486.9	8955.5	9573.5	9754.6	10082.8	10137.2	9428.6
22.5°	7780.6	7805.5	7798.7	7864.3	8104.3	8575.2	9258.8	9473.9	9919.8	10060.2	9229.4
25°	7789.6	7812.3	7778.3	7762.5	7905.1	8240.1	8930.6	9204.5	9788.5	10008.1	9048.3
27.5°	7941.3	7957.1	7893.8	7830.4	7841.7	8031.9	8658.9	8962.3	9677.6	10030.8	8896.6
30°	8145.0	8174.5	8133.7	8056.8	7973.0	7982.0	8484.6	8783.4	9625.5	10110.0	8824.2
32.5°	8407.6	8434.8	8416.7	8355.6	8246.9	8126.9	8441.6	8717.8	9630.1	10270.7	8808.3
35°	8683.8	8738.1	8767.6	8763.1	8674.8	8466.5	8611.4	8840.0	9738.7	10540.1	8901.1
37.5°	8996.2	9041.5	9168.3	9249.8	9168.3	8926.0	8994.0	9152.4	9978.7	10929.5	9104.9
40°	9299.6	9367.5	9553.1	9806.6	9775.0	9562.2	9578.0	9682.1	10402.0	11509.0	9503.3
42.5°	9616.5	9698.0	10021.7	10397.5	10472.2	10306.9	10350.0	10442.8	11004.2	12312.6	10187.0
45°	10024.0	10121.3	10519.7	10988.3	11282.6	11180.8	11303.0	11348.3	11810.1	13358.5	11087.9
47.5°	10549.2	10662.4	11153.6	11737.6	12154.2	12247.0	12459.8	12432.6	12808.4	14596.8	12256.0
50°	11434.3	11497.7	11961.8	12557.1	13129.9	13548.7	13779.6	13822.6	14046.7	15801.1	13562.2
52.5°	12487.0	12543.5	12878.6	13399.2	14116.9	15004.3	15574.7	15434.4	15488.7	17268.0	15090.3
55°	13670.9	13766.0	13978.8	14325.1	15255.5	16561.7	17707.2	17741.2	17139.0	18671.6	16554.9
57.5°	14587.7	14748.5	15112.9	15606.4	16785.8	18293.5	19832.9	19855.5	19085.8	20170.2	18171.3
60°	14125.9	14316.1	15149.1	16351.2	18793.8	21315.7	22372.8	22243.8	20980.6	21877.1	20143.0
62.5°	12133.8	12167.8	13378.9	15257.8	19411.8	25358.7	26153.3	25607.8	23509.2	24041.2	22146.5
65°	7853.0	8074.9	9034.7	11667.5	17381.2	27602.1	32777.1	31516.2	27054.3	26497.4	23823.9
67.5°	4957.7	4901.1	5299.5	6662.3	11955.0	25625.9	38429.7	38230.5	31690.5	28048.1	23423.2
69°	4111.0	4174.4	4310.2	5107.1	8226.5	21879.3	39097.6	40473.9	33938.4	27925.9	21967.6
70°	3728.4	3757.9	3900.5	4527.5	6347.6	18325.2	38001.9	40412.8	34821.3	27414.2	20912.7
72.5°	2958.7	2956.5	3201.0	3766.9	4744.9	10460.9	31203.8	35086.2	33834.3	25032.8	17279.3
75°	2247.9	2284.1	2553.5	3187.4	4371.3	5716.0	21775.2	27020.3	27022.6	19771.8	10782.3
77.5°	1620.9	1643.5	1958.2	2675.8	4117.8	4633.9	14504.0	19380.1	18218.8	9059.6	3388.9
80°	1061.7	1075.3	1315.2	2118.9	3712.6	4371.3	8600.1	11862.2	8593.3	2404.1	1120.6
82.5°	581.8	649.7	803.6	1371.8	2979.1	4038.6	5227.0	6003.5	3223.6	1070.8	584.1
85°	292.0	310.1	452.8	801.4	1946.8	3341.3	3640.1	3443.2	1663.9	532.0	303.3
87.5°	86.0	108.7	187.9	310.1	790.1	1740.8	2026.1	1817.8	640.6	192.4	63.4
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: P456231

CATALOG NUMBER: GALN-SA7C-727-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0	11217.0
2.5°	11124.2	11083.4	10902.3	10739.3	10589.9	10431.4	10297.9	10180.2	10191.5	10193.8	10073.8
5°	10870.6	10777.8	10433.7	10112.3	9840.6	9496.5	9202.2	9012.1	8917.0	8790.2	8835.5
7.5°	10526.5	10347.7	9870.0	9335.8	8835.5	8389.5	7905.1	7572.3	7359.5	7153.5	7180.7
10°	10171.1	9883.6	9188.6	8482.3	7834.9	7121.8	6503.8	5974.1	5580.2	5433.0	5335.7
12.5°	9806.6	9428.6	8545.7	7606.3	6712.1	5858.6	4982.6	4414.3	3979.7	3748.8	3778.2
15°	9473.9	9014.3	7875.7	6730.2	5568.9	4552.4	3678.6	3137.6	2834.2	2770.9	2807.1
17.5°	9166.0	8563.8	7248.6	5879.0	4523.0	3413.8	2764.1	2458.5	2336.2	2302.3	2300.0
20°	8849.1	8181.3	6544.6	4969.0	3524.7	2646.3	2268.3	2125.7	2103.0	2116.6	2118.9
22.5°	8527.6	7708.1	5820.2	4065.7	2807.1	2164.2	1983.1	1944.6	1962.7	1994.4	1998.9
25°	8231.1	7291.6	5122.9	3273.4	2241.1	1901.6	1813.3	1813.3	1854.0	1901.6	1903.8
27.5°	7986.6	6888.6	4427.9	2598.8	1876.7	1711.4	1682.0	1697.8	1754.4	1790.6	1792.9
30°	7785.1	6512.9	3771.4	2082.7	1650.3	1559.7	1552.9	1580.1	1620.9	1654.8	1657.1
32.5°	7633.4	6182.4	3158.0	1749.9	1494.1	1444.3	1442.0	1462.4	1485.0	1494.1	1503.1
35°	7574.6	5908.4	2596.5	1539.4	1390.0	1358.3	1358.3	1356.0	1365.1	1369.6	1374.1
37.5°	7622.1	5697.9	2161.9	1403.5	1313.0	1290.3	1276.8	1263.2	1258.7	1258.7	1260.9
40°	7823.6	5587.0	1838.2	1315.2	1258.7	1224.7	1199.8	1184.0	1168.1	1172.6	1177.2
42.5°	8251.4	5607.4	1618.6	1256.4	1211.1	1163.6	1127.4	1109.2	1097.9	1111.5	1109.2
45°	8932.8	5811.1	1478.2	1215.6	1163.6	1102.5	1068.5	1050.4	1050.4	1070.8	1077.6
47.5°	9885.9	6200.5	1403.5	1184.0	1127.4	1054.9	1021.0	1007.4	1011.9	1045.9	1048.1
50°	11049.5	6877.3	1390.0	1168.1	1109.2	1021.0	982.5	968.9	980.2	1016.4	1021.0
52.5°	12333.0	7748.9	1455.6	1170.4	1093.4	1000.6	950.8	930.4	941.7	971.2	980.2
55°	13854.3	8840.0	1625.4	1179.4	1070.8	989.3	928.1	882.9	896.5	916.8	919.1
57.5°	15407.2	10216.4	1924.2	1181.7	1052.7	968.9	889.7	830.8	830.8	844.4	851.2
60°	17304.3	11715.0	2318.1	1184.0	1054.9	939.5	837.6	771.9	762.9	769.7	771.9
62.5°	19187.7	12969.1	2383.7	1177.2	1077.6	910.0	781.0	713.1	697.2	695.0	690.4
65°	20018.5	12736.0	1953.6	1145.5	1102.5	891.9	735.7	656.5	629.3	620.3	620.3
67.5°	18664.8	10773.3	1469.2	1102.5	1086.6	873.8	692.7	609.0	577.3	559.2	559.2
69°	17392.5	9582.5	1319.8	1073.0	1045.9	844.4	665.5	584.1	545.6	525.2	518.4
70°	16410.1	8763.1	1256.4	1048.1	1007.4	810.4	645.2	565.9	522.9	500.3	495.8
72.5°	13095.9	6875.1	1100.2	953.0	858.0	681.4	572.7	509.3	468.6	443.7	436.9
75°	7547.4	3726.2	912.3	828.5	690.4	529.7	484.4	443.7	412.0	389.4	382.6
77.5°	2322.6	1439.8	661.0	654.2	507.1	409.7	387.1	371.3	348.6	323.7	319.2
80°	977.9	733.5	448.2	441.4	337.3	285.2	278.4	276.2	267.1	246.8	240.0
82.5°	536.5	414.3	312.4	271.7	203.7	165.3	172.0	174.3	167.5	147.1	133.6
85°	262.6	226.4	151.7	122.2	92.8	58.9	56.6	67.9	63.4	45.3	49.8
87.5°	52.1	63.4	40.7	18.1	9.1	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)