

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: P456233

Luminaire Tested: **GALN-SA7C-727-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
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-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40086 lumens  
Efficiency: N/A  
Efficacy: 106.3 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

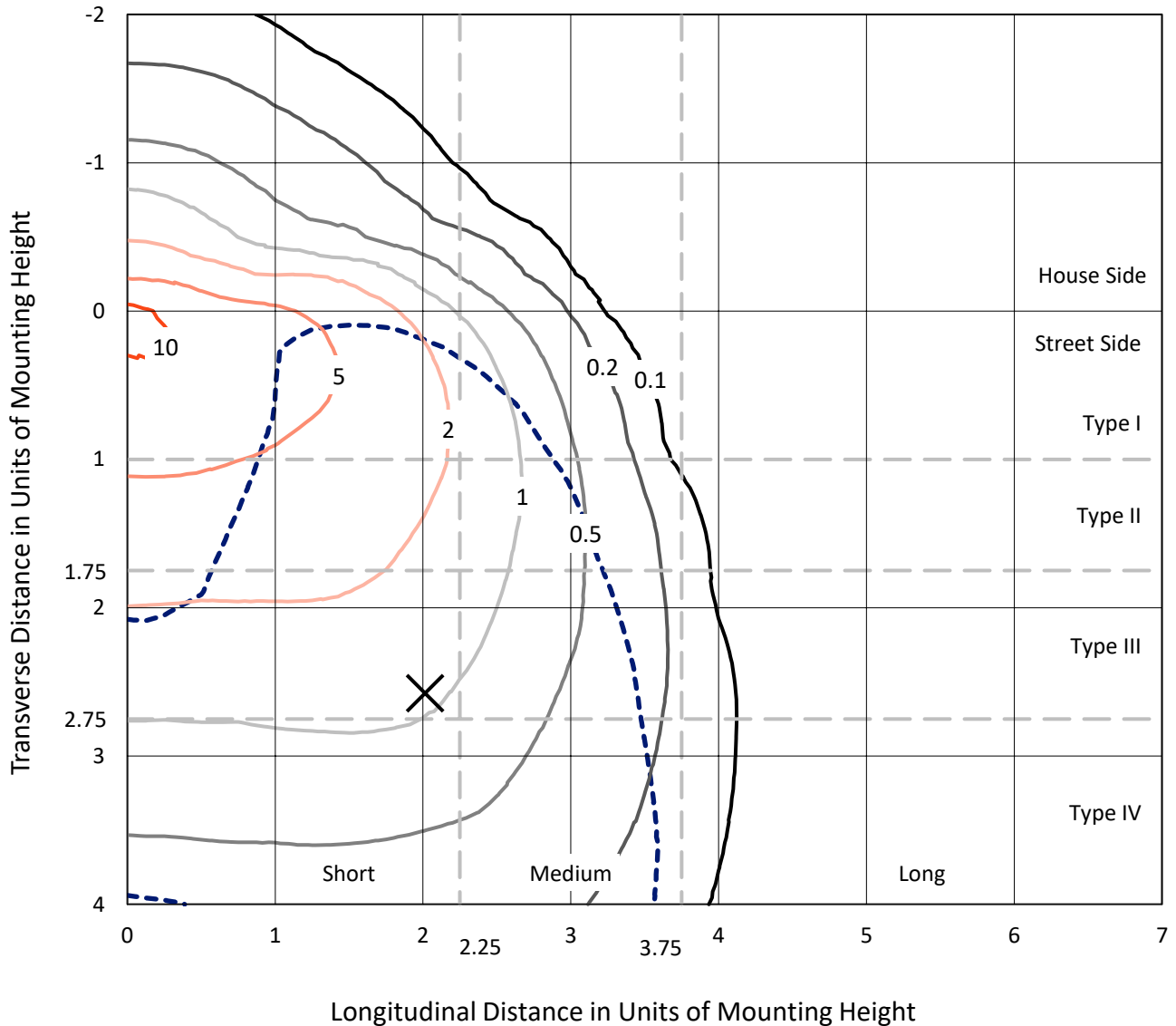
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

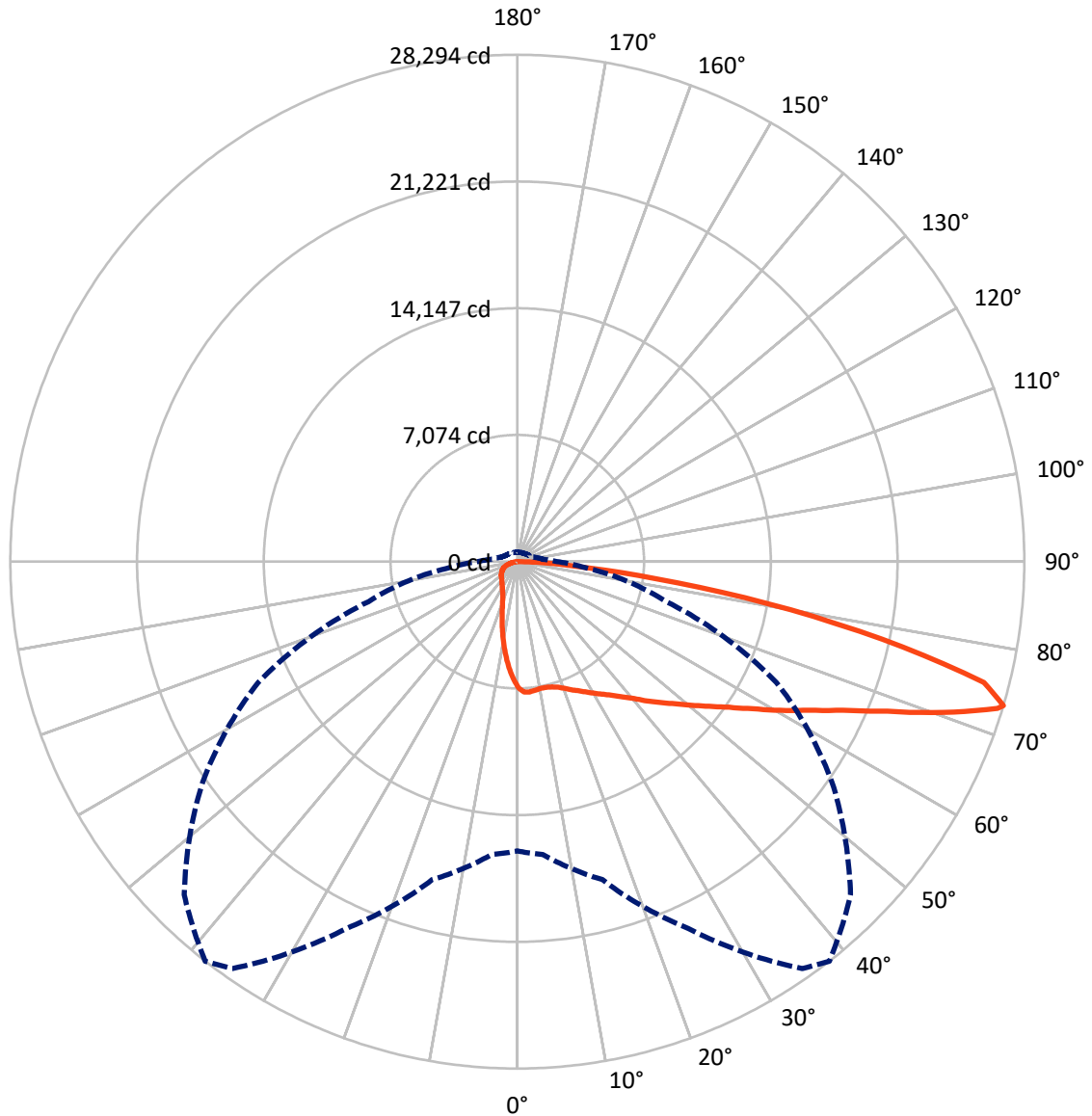
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5388.7	0.0	5388.7
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	34697.3	0.0	34697.3
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	40086.0	0.0	40086.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	614.7	1.5
10°-20°	1576.4	3.9
20°-30°	2454.7	6.1
30°-40°	3600.5	9.0
40°-50°	5340.9	13.3
50°-60°	7567.0	18.9
60°-70°	9598.9	23.9
70°-80°	7990.4	19.9
80°-90°	1342.5	3.3
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°	40086.0	100.0
0°-180°	40086.0	100.0

**Coefficient of Utilization**



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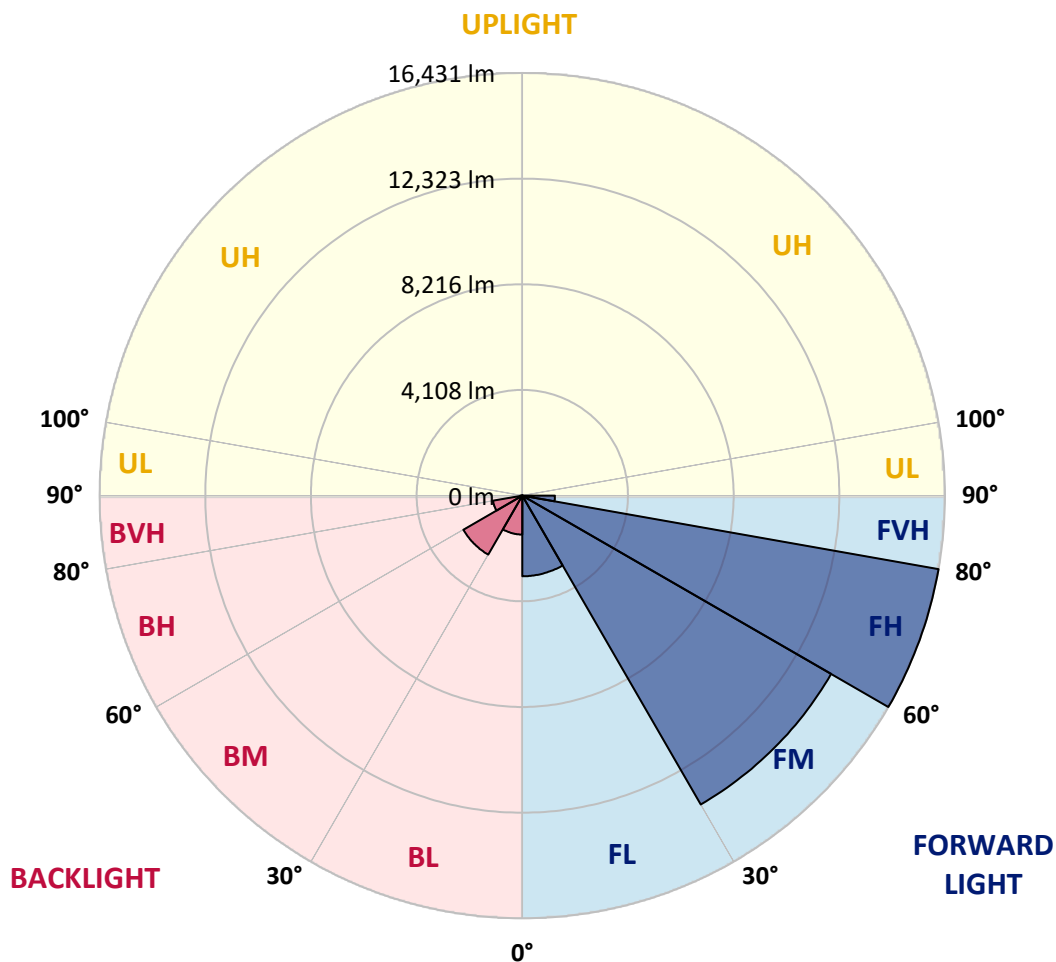
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3133.6	7.8			
FM	(30°-60°)	13862.8	34.6			
FH	(60°-80°)	16431.1	41.0			G5
FVH	(80°-90°)	1269.7	3.2			G5
BL	(0°-30°)	1512.1	3.8	B3/2500		
BM	(30°-60°)	2645.5	6.6	B3/5000		
BH	(60°-80°)	1158.3	2.9	B3/2500		G3/2500
BVH	(80°-90°)	72.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4
2.5°	7325.4	7361.6	7343.5	7318.6	7302.8	7286.9	7264.3	7198.6	7146.6	7090.0	7001.7
5°	7379.7	7402.4	7386.5	7354.8	7318.6	7302.8	7259.7	7173.7	7090.0	6994.9	6863.6
7.5°	7348.0	7357.1	7339.0	7300.5	7268.8	7239.4	7189.6	7094.5	6992.6	6877.2	6705.1
10°	7234.8	7268.8	7268.8	7237.1	7205.4	7189.6	7139.8	7049.2	6956.4	6825.1	6621.4
12.5°	7142.0	7178.3	7207.7	7198.6	7196.4	7196.4	7157.9	7090.0	6981.3	6856.8	6614.6
15°	7078.7	7121.7	7185.0	7221.3	7243.9	7250.7	7234.8	7176.0	7065.1	6920.2	6641.8
17.5°	7065.1	7117.1	7232.6	7311.8	7370.7	7368.4	7363.9	7282.4	7160.1	7010.7	6675.7
20°	7126.2	7194.1	7354.8	7479.3	7565.3	7549.5	7524.6	7418.2	7275.6	7108.1	6707.4
22.5°	7309.5	7379.7	7556.3	7692.1	7775.9	7775.9	7701.2	7560.8	7409.2	7221.3	6750.4
25°	7572.1	7649.1	7837.0	7975.1	8013.6	7984.1	7909.4	7739.7	7565.3	7384.3	6841.0
27.5°	7893.6	7986.4	8160.7	8276.2	8264.8	8242.2	8165.2	7947.9	7773.6	7608.4	6994.9
30°	8294.3	8362.2	8543.3	8570.4	8529.7	8525.2	8416.5	8199.2	8036.2	7909.4	7214.5
32.5°	8672.3	8733.4	8878.3	8889.6	8817.2	8826.2	8724.4	8525.2	8432.4	8387.1	7583.5
35°	9073.0	9104.7	9229.2	9215.6	9168.1	9161.3	9120.5	8930.4	8959.8	9041.3	8106.4
37.5°	9408.0	9471.4	9541.6	9552.9	9550.6	9573.3	9600.4	9509.9	9679.7	9935.5	8792.3
40°	9715.9	9770.2	9874.3	9910.6	9998.8	10044.1	10136.9	10139.2	10530.8	10951.9	9636.7
42.5°	9924.1	10017.0	10211.6	10277.3	10492.3	10628.2	10766.2	10913.4	11481.6	12022.6	10632.7
45°	10105.2	10227.5	10551.2	10754.9	11047.0	11212.2	11504.2	11812.1	12629.3	13337.8	11644.6
47.5°	10379.2	10487.8	10859.1	11219.0	11660.4	11850.6	12287.5	12747.0	13815.5	14591.9	12613.4
50°	10759.5	10825.1	11203.1	11789.5	12353.1	12597.6	13174.8	13838.1	15083.2	15830.2	13464.6
52.5°	11246.2	11273.3	11574.4	12355.4	13097.9	13401.2	14166.4	14940.5	16192.4	16905.5	14139.2
55°	11821.1	11775.9	12011.3	12955.3	13949.0	14345.2	15166.9	16056.6	17439.7	17774.7	14630.4
57.5°	12389.3	12319.2	12507.0	13684.2	14999.4	15477.0	16434.6	17206.5	18553.4	18587.4	14974.5
60°	12991.5	12939.4	13163.5	14539.9	16287.5	16853.4	17738.5	18399.5	19631.0	19153.3	15028.8
62.5°	13609.5	13525.7	13844.9	15501.9	17738.5	18252.4	19110.3	19667.2	20688.1	19363.9	14505.9
65°	14209.4	14170.9	14664.4	16645.1	19391.0	19975.1	20808.1	21186.1	21534.8	19046.9	13208.8
67.5°	14847.7	14924.7	15712.5	18170.9	21546.1	22279.5	23178.2	22822.8	21777.0	17546.1	11123.9
70°	15821.1	15870.9	17088.8	20169.7	24323.7	25208.8	25643.4	23404.6	20608.9	14696.1	8362.2
72.5°	16239.9	16459.5	18318.0	22268.2	27479.3	28020.3	26471.9	22107.5	17168.0	9983.0	4393.9
73°	16147.1	16409.7	18374.6	22587.4	27726.0	28294.2	26295.4	21439.7	15959.2	8597.6	3766.8
75°	14990.3	15314.1	17638.9	22320.3	27246.1	26906.6	23456.7	18272.7	10784.4	3909.4	1715.9
77.5°	11827.9	11920.7	13976.2	18023.7	21455.5	20826.2	17555.1	11420.5	4405.2	1453.3	973.4
80°	5933.2	6275.0	7877.7	10324.8	14347.5	14141.5	11080.9	5401.2	1835.9	853.4	645.2
82.5°	2854.6	3096.8	3837.0	5034.5	7927.5	7739.7	5487.3	2951.9	1165.8	498.0	380.3
85°	1838.1	2019.2	2442.6	2401.8	3259.8	3112.6	2465.2	2234.3	690.4	260.3	264.9
87.5°	1213.4	1328.8	1593.7	1274.5	1186.2	1073.0	1088.8	1258.6	135.8	99.6	36.2
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°	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4	7042.4
2.5°	6965.5	6936.0	6838.7	6743.6	6653.1	6567.0	6510.5	6435.8	6386.0	6399.5	6419.9
5°	6791.2	6725.5	6553.5	6386.0	6227.5	6039.6	5887.9	5765.7	5672.9	5638.9	5632.1
7.5°	6607.8	6496.9	6250.1	5962.6	5693.3	5460.1	5190.7	5057.1	4901.0	4846.6	4828.5
10°	6496.9	6347.5	6001.1	5600.4	5195.2	4808.1	4516.1	4278.4	4063.4	4022.6	4002.3
12.5°	6465.2	6268.2	5801.9	5285.8	4747.0	4271.6	3839.3	3526.9	3318.6	3271.1	3200.9
15°	6447.1	6202.6	5616.3	4968.9	4285.2	3705.7	3250.7	2886.2	2696.1	2569.3	2571.6
17.5°	6431.2	6127.9	5408.0	4622.5	3886.8	3219.0	2716.5	2388.2	2213.9	2146.0	2139.2
20°	6408.6	6039.6	5168.1	4258.1	3431.8	2775.3	2320.3	2075.8	1958.1	1901.5	1899.3
22.5°	6399.5	5953.6	4932.6	3886.8	3028.9	2433.5	2057.7	1885.7	1811.0	1772.5	1772.5
25°	6422.2	5892.5	4685.9	3533.7	2671.2	2141.5	1876.6	1758.9	1715.9	1695.5	1688.7
27.5°	6492.3	5865.3	4441.4	3180.5	2342.9	1942.3	1754.4	1672.9	1641.2	1625.4	1627.6
30°	6625.9	5863.0	4201.5	2831.9	2098.5	1790.6	1657.0	1600.4	1575.5	1566.5	1564.2
32.5°	6841.0	5912.8	3966.0	2544.4	1892.5	1663.8	1566.5	1525.7	1514.4	1507.6	1505.4
35°	7205.4	6053.2	3732.9	2281.8	1734.0	1550.6	1480.5	1460.1	1444.3	1451.0	1453.3
37.5°	7696.6	6295.4	3511.0	2075.8	1614.0	1466.9	1408.0	1389.9	1380.9	1387.7	1394.5
40°	8355.4	6644.0	3325.4	1910.6	1528.0	1396.7	1344.6	1328.8	1319.7	1331.1	1333.3
42.5°	9082.0	7047.0	3171.5	1781.5	1457.8	1337.9	1288.1	1269.9	1263.2	1269.9	1272.2
45°	9829.1	7515.5	3092.2	1688.7	1399.0	1294.8	1242.8	1222.4	1206.6	1202.0	1208.8
47.5°	10564.8	7923.0	3090.0	1632.1	1351.4	1256.4	1199.8	1177.1	1156.8	1145.4	1143.2
50°	11164.7	8246.7	3144.3	1607.2	1310.7	1213.4	1156.8	1134.1	1107.0	1084.3	1088.8
52.5°	11617.4	8457.3	3169.2	1595.9	1288.1	1168.1	1111.5	1091.1	1059.4	1030.0	1030.0
55°	11909.4	8507.1	3108.1	1584.6	1269.9	1120.5	1059.4	1041.3	1009.6	980.2	980.2
57.5°	12009.0	8353.1	2888.5	1557.4	1251.8	1079.8	1007.4	991.5	966.6	937.2	932.7
60°	11778.1	7832.5	2503.7	1475.9	1215.6	1036.8	950.8	944.0	934.9	910.0	907.8
62.5°	10888.5	6727.8	2084.9	1369.6	1154.5	991.5	898.7	910.0	916.8	903.2	901.0
65°	9408.0	5462.4	1781.5	1222.4	1073.0	928.1	842.1	871.5	889.6	889.6	885.1
67.5°	7631.0	4194.7	1500.8	1095.6	971.1	842.1	778.7	801.4	814.9	810.4	821.7
70°	5423.9	2841.0	1222.4	950.8	842.1	744.8	697.2	697.2	688.2	683.6	683.6
72.5°	2630.4	1623.1	991.5	794.6	717.6	636.1	597.6	581.8	563.7	561.4	550.1
73°	2198.1	1455.6	946.2	765.1	688.2	620.3	577.2	552.3	541.0	532.0	529.7
75°	1337.9	1104.7	790.0	645.2	586.3	534.2	495.8	473.1	461.8	455.0	452.7
77.5°	880.6	824.0	613.5	493.5	448.2	416.5	400.7	378.0	371.2	362.2	362.2
80°	656.5	629.3	439.2	348.6	321.4	294.3	289.8	285.2	267.1	255.8	251.3
82.5°	423.3	448.2	298.8	233.2	203.7	181.1	183.4	190.2	172.0	156.2	151.7
85°	301.1	323.7	181.1	106.4	86.0	74.7	83.8	74.7	77.0	61.1	49.8
87.5°	49.8	86.0	31.7	13.6	6.8	4.5	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)