

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: P457389

Luminaire Tested: **GALN-SA8D-727-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8D-727-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 52148 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

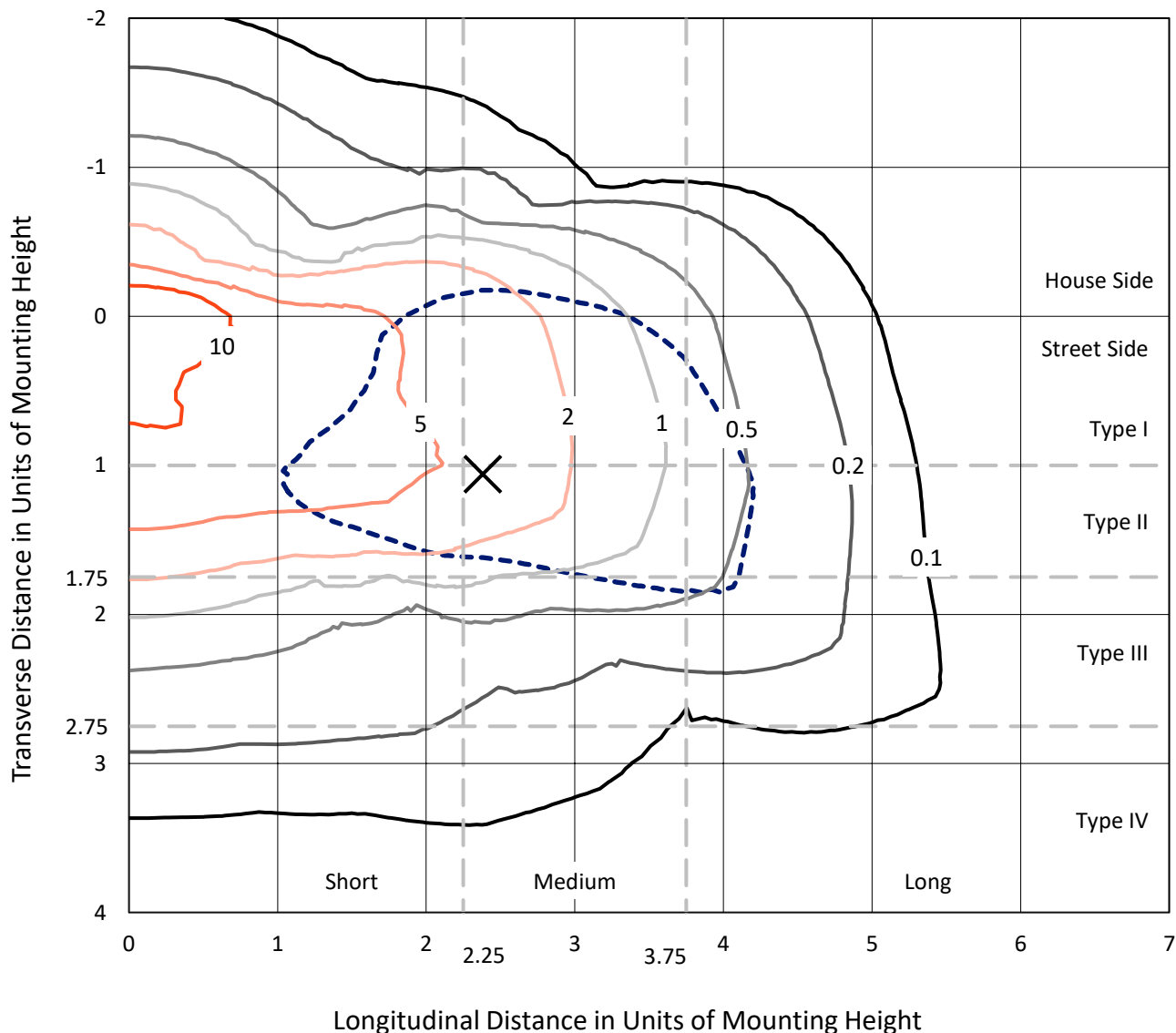
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

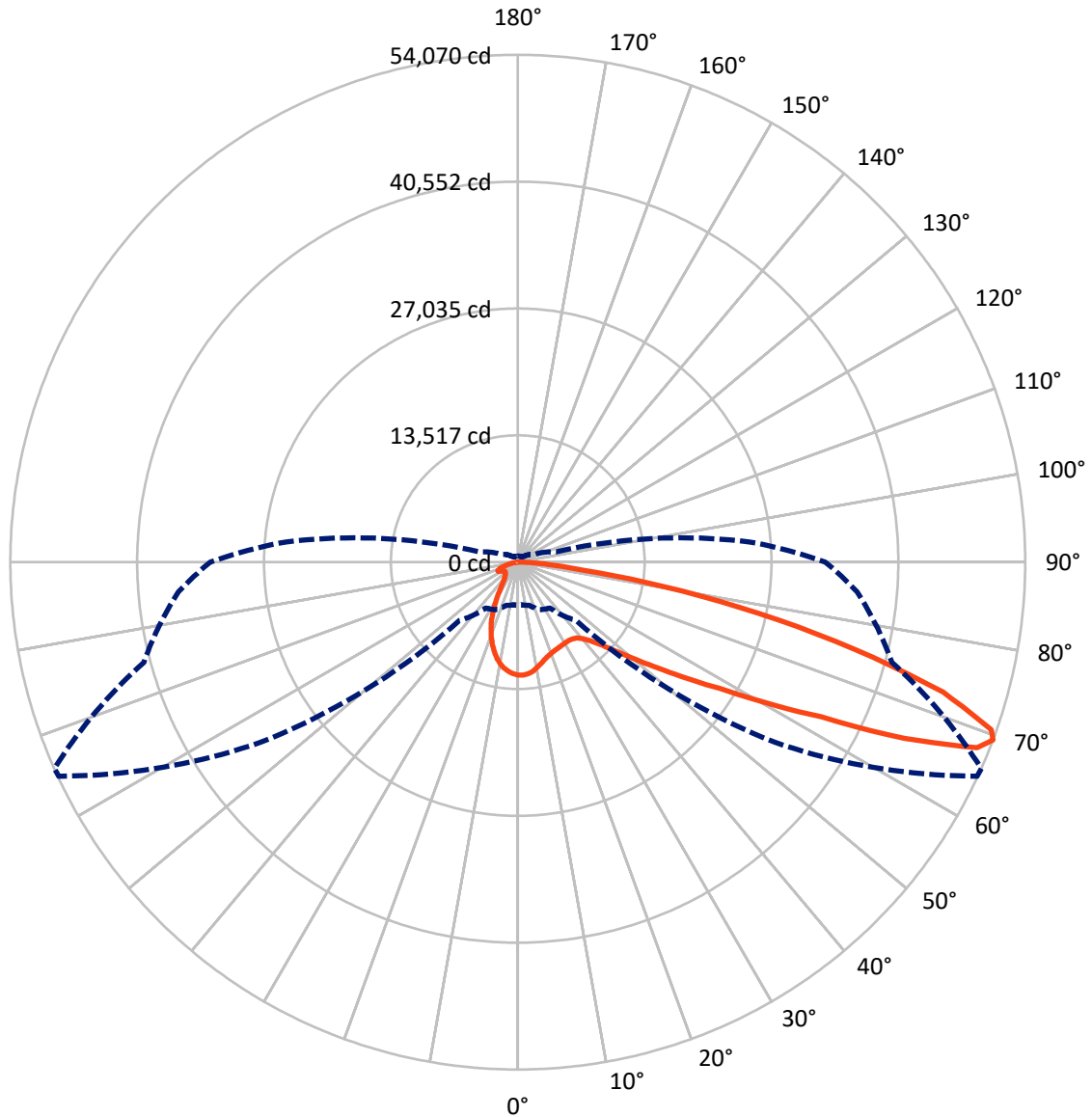
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9807.1	0.0	9807.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	42340.9	0.0	42340.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	52148.0	0.0	52148.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1045.8	2.0
10°-20°	2480.4	4.8
20°-30°	3376.8	6.5
30°-40°	4537.7	8.7
40°-50°	6775.5	13.0
50°-60°	10777.6	20.7
60°-70°	13255.8	25.4
70°-80°	8624.8	16.5
80°-90°	1273.6	2.4
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°	52148.0	100.0
0°-180°	52148.0	100.0

**Coefficient of Utilization**



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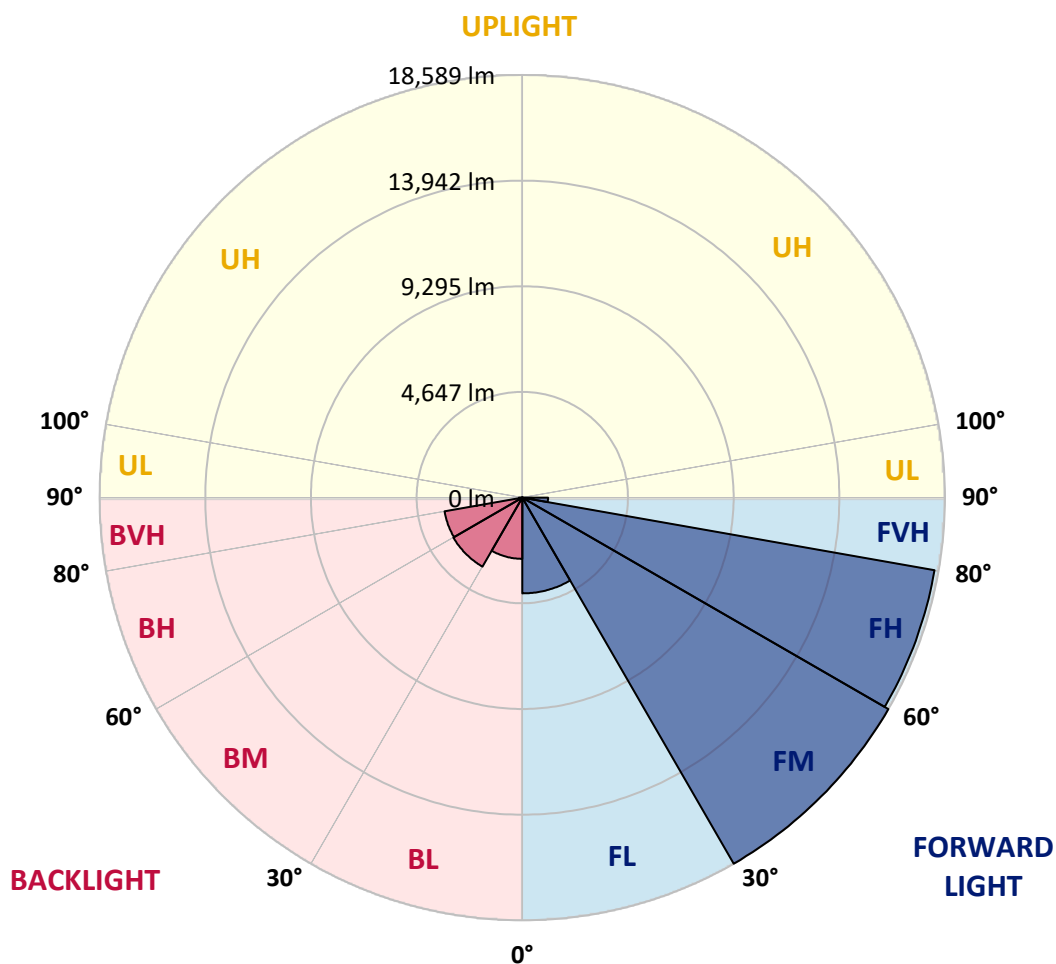
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4210.9	8.1			
FM	(30°-60°)	18589.2	35.6			
FH	(60°-80°)	18408.5	35.3			G5
FVH	(80°-90°)	1132.3	2.2			G5
BL	(0°-30°)	2692.1	5.2	B4/5000		
BM	(30°-60°)	3501.6	6.7	B3/5000		
BH	(60°-80°)	3472.1	6.7	B4/5000		G4/5000
BVH	(80°-90°)	141.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4
2.5°	11620.8	11667.0	11719.0	11776.7	11886.5	11947.1	11990.4	12039.5	12045.3	12071.3	12051.1
5°	10763.1	10818.0	10895.9	11005.7	11170.3	11427.3	11693.0	11909.6	11935.6	12056.9	12091.5
7.5°	10046.9	10078.7	10142.2	10318.4	10552.3	10838.2	11225.2	11664.1	11727.6	12016.4	12117.5
10°	9463.6	9495.3	9570.4	9752.3	9983.4	10341.5	10766.0	11343.6	11395.5	11892.3	12123.3
12.5°	9027.5	9056.4	9137.2	9316.3	9582.0	9916.9	10384.8	10997.0	11072.1	11727.6	12068.4
15°	8695.4	8750.2	8816.7	8964.0	9244.1	9567.5	10020.9	10679.3	10740.0	11554.4	12030.9
17.5°	8553.9	8579.9	8626.1	8761.8	8966.8	9284.5	9740.8	10431.0	10503.2	11433.1	12022.2
20°	8559.6	8585.6	8594.3	8669.4	8816.7	9091.0	9541.5	10234.6	10321.3	11326.2	12036.6
22.5°	8756.0	8758.9	8727.1	8701.2	8758.9	8987.1	9400.0	10087.3	10188.4	11280.0	12048.2
25°	9059.3	9111.2	9065.0	8943.7	8836.9	8946.6	9345.2	10006.5	10101.8	11213.6	12033.8
27.5°	9550.2	9558.9	9521.3	9356.7	9079.5	8998.6	9322.0	9945.8	10026.7	11164.5	11961.6
30°	10208.6	10182.6	10148.0	9966.0	9530.0	9197.9	9371.1	9891.0	9974.7	11092.3	11874.9
32.5°	10875.7	10956.6	10924.8	10711.1	10145.1	9584.8	9530.0	9885.2	9954.5	11037.4	11779.6
35°	11583.3	11620.8	11771.0	11661.2	11080.8	10211.5	9827.4	9974.7	10029.6	11040.3	11713.2
37.5°	12137.7	12238.8	12591.1	12686.4	12140.6	11040.3	10309.7	10228.8	10251.9	11181.8	11739.2
40°	12807.7	12981.0	13434.4	13824.2	13466.1	12117.5	11129.9	10699.6	10728.4	11522.6	11909.6
42.5°	13656.7	13778.0	14387.4	14915.9	14858.1	13541.2	12123.3	11470.6	11485.1	12201.3	12386.1
45°	14650.2	14823.4	15507.9	16302.0	16437.8	15152.7	13558.6	12637.3	12628.7	13255.3	13275.5
47.5°	15920.8	16027.7	16706.3	17572.7	18121.4	17177.1	15299.9	14312.3	14219.9	14791.7	14627.1
50°	17090.4	17257.9	17772.0	18719.2	20085.1	19548.0	17590.0	16484.0	16267.4	16801.6	16524.4
52.5°	17581.4	17757.5	18190.7	19366.1	21768.8	22614.9	20498.1	19074.4	18713.4	19123.5	19022.4
55°	16729.4	16957.6	17361.9	18791.4	22508.1	26152.6	24419.8	22069.1	21806.3	21630.2	21659.0
57.5°	14439.4	14655.9	15201.8	16778.5	21624.4	28719.9	30019.4	25918.6	25355.5	24544.0	24682.6
60°	10991.2	11127.0	11410.0	13157.1	19005.1	29387.0	36378.5	30784.7	30426.6	27446.3	27544.5
62.5°	7805.9	7959.0	8155.3	9027.5	13913.8	27507.0	41357.2	37579.9	36300.5	30452.6	30357.3
65°	6338.9	6234.9	6471.7	6878.9	8164.0	21318.3	42477.7	47011.7	45250.1	34411.9	33089.2
67.5°	5212.6	5102.9	5336.8	6061.6	6208.9	12374.5	38440.5	53133.9	52781.6	38717.7	35864.5
69°	4614.8	4557.1	4762.1	5588.0	5960.6	8787.8	33487.8	53985.9	54069.6	41256.1	36291.9
70°	4158.5	4181.6	4380.9	5348.3	5847.9	7245.7	28621.7	52810.5	53520.9	42523.9	35829.8
72.5°	3061.1	3110.2	3387.5	4430.0	5741.1	6148.3	17032.7	46128.0	47384.2	42599.0	32777.3
75°	2139.9	2116.8	2362.3	3335.5	5423.4	6093.4	10003.6	35673.9	37097.6	36820.4	27541.6
77.5°	1400.6	1438.2	1634.5	2356.5	4562.8	6047.2	6520.8	25309.3	26233.4	24624.9	16290.5
80°	987.7	984.8	1094.5	1608.5	3384.6	5810.4	5339.7	15952.6	15718.7	9677.3	4831.4
82.5°	566.0	606.5	733.5	1132.0	2264.1	5114.4	4912.3	7629.8	6965.5	2757.9	1631.6
85°	314.8	329.2	436.1	684.4	1322.6	3852.4	4288.5	3471.2	3274.8	1152.3	701.8
87.5°	101.1	109.7	181.9	346.5	600.7	1819.4	2428.7	1602.8	1478.6	415.9	283.0
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°	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4	12042.4
2.5°	12059.7	12094.4	12002.0	11912.5	11831.6	11719.0	11617.9	11534.2	11476.4	11467.7	11438.9
5°	12100.2	12103.1	11926.9	11690.1	11459.1	11204.9	10942.1	10754.4	10578.3	10480.1	10431.0
7.5°	12129.1	12103.1	11785.4	11401.3	10956.6	10494.5	10032.5	9662.8	9376.9	9264.3	9307.6
10°	12117.5	12036.6	11571.7	10956.6	10309.7	9619.5	8955.3	8435.5	7959.0	7713.5	7719.3
12.5°	12054.0	11921.1	11254.0	10457.0	9506.9	8582.8	7566.2	6864.5	6312.9	5986.6	5885.5
15°	11999.1	11768.1	10881.5	9778.3	8597.2	7277.4	6038.5	5172.2	4710.1	4453.1	4450.2
17.5°	11941.3	11620.8	10474.3	9059.3	7551.8	5853.7	4554.2	3892.9	3676.3	3702.3	3658.9
20°	11880.7	11447.5	10049.8	8259.3	6278.2	4366.5	3410.6	3142.0	3202.6	3321.1	3338.4
22.5°	11811.4	11262.7	9593.5	7378.5	4938.3	3286.4	2766.6	2726.2	2882.1	3066.9	3092.9
25°	11704.5	11031.7	9018.8	6457.3	3809.1	2648.2	2422.9	2451.8	2604.9	2760.8	2778.1
27.5°	11554.4	10745.8	8438.4	5307.9	2861.9	2272.8	2215.0	2252.5	2327.6	2422.9	2446.0
30°	11352.2	10422.3	7771.3	4314.5	2293.0	2085.0	2061.9	2082.2	2125.5	2165.9	2177.5
32.5°	11150.1	10110.4	7098.4	3303.7	2044.6	1960.9	1937.8	1937.8	1937.8	1943.5	1946.4
35°	10962.4	9815.9	6376.4	2573.1	1914.7	1862.7	1830.9	1796.3	1790.5	1770.3	1770.3
37.5°	10858.4	9547.3	5608.2	2154.4	1819.4	1781.8	1738.5	1680.7	1649.0	1651.9	1646.1
40°	10878.6	9371.1	4909.4	1917.5	1741.4	1701.0	1634.5	1568.1	1547.9	1547.9	1542.1
42.5°	11106.8	9313.4	4239.4	1793.4	1666.3	1620.1	1536.3	1475.7	1464.2	1461.3	1467.0
45°	11632.3	9454.9	3638.7	1712.5	1602.8	1533.5	1449.7	1394.8	1383.3	1383.3	1380.4
47.5°	12657.5	9914.1	3208.4	1660.5	1556.6	1467.0	1380.4	1325.5	1305.3	1299.5	1299.5
50°	14251.6	10910.4	2887.9	1614.3	1498.8	1406.4	1316.9	1253.3	1221.6	1218.7	1215.8
52.5°	16466.6	12464.1	2763.7	1579.7	1435.3	1342.9	1244.7	1184.0	1143.6	1134.9	1129.2
55°	19057.1	14632.8	2934.1	1553.7	1368.9	1270.7	1169.6	1106.1	1068.5	1051.2	1048.3
57.5°	22057.6	17237.7	3581.0	1519.0	1308.2	1192.7	1094.5	1031.0	990.5	970.3	964.5
60°	24751.9	19914.8	4710.1	1498.8	1256.2	1108.9	1007.9	950.1	912.6	892.4	889.5
62.5°	27712.0	22467.6	6058.8	1553.7	1233.1	1028.1	927.0	875.0	843.3	823.0	823.0
65°	30874.2	25023.4	6951.1	1738.5	1267.8	964.5	840.4	797.1	768.2	753.7	750.8
67.5°	33005.5	25907.1	5726.6	1929.1	1354.4	895.2	756.6	722.0	704.6	690.2	690.2
69°	32774.4	24789.5	4225.0	1978.2	1380.4	860.6	710.4	684.4	661.3	655.5	649.8
70°	32043.8	23515.9	3540.5	1946.4	1360.2	828.8	681.5	649.8	629.6	623.8	620.9
72.5°	28540.8	20394.1	2636.6	1692.3	1158.0	719.1	603.6	574.7	557.4	548.7	548.7
75°	23712.3	16668.8	2059.1	1345.7	906.8	606.5	516.9	493.8	479.4	473.6	470.7
77.5°	13290.0	9307.6	1478.6	1054.1	687.3	490.9	433.2	413.0	398.5	392.8	392.8
80°	3702.3	2659.7	869.2	696.0	467.8	372.5	343.7	329.2	309.0	294.6	303.2
82.5°	1394.8	1152.3	496.7	418.7	297.5	248.4	239.7	228.1	219.5	199.3	199.3
85°	678.6	560.2	317.7	222.4	164.6	130.0	124.2	118.4	112.6	98.2	101.1
87.5°	233.9	248.4	138.6	80.9	49.1	31.8	26.0	14.4	14.4	14.4	14.4
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)