

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: P457882

Luminaire Tested: **GALN-SA9B-730-U-SL2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457882  
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-SA9B-730-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 800mA 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: 46894 lumens  
Efficiency: N/A  
Efficacy: 128.8 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

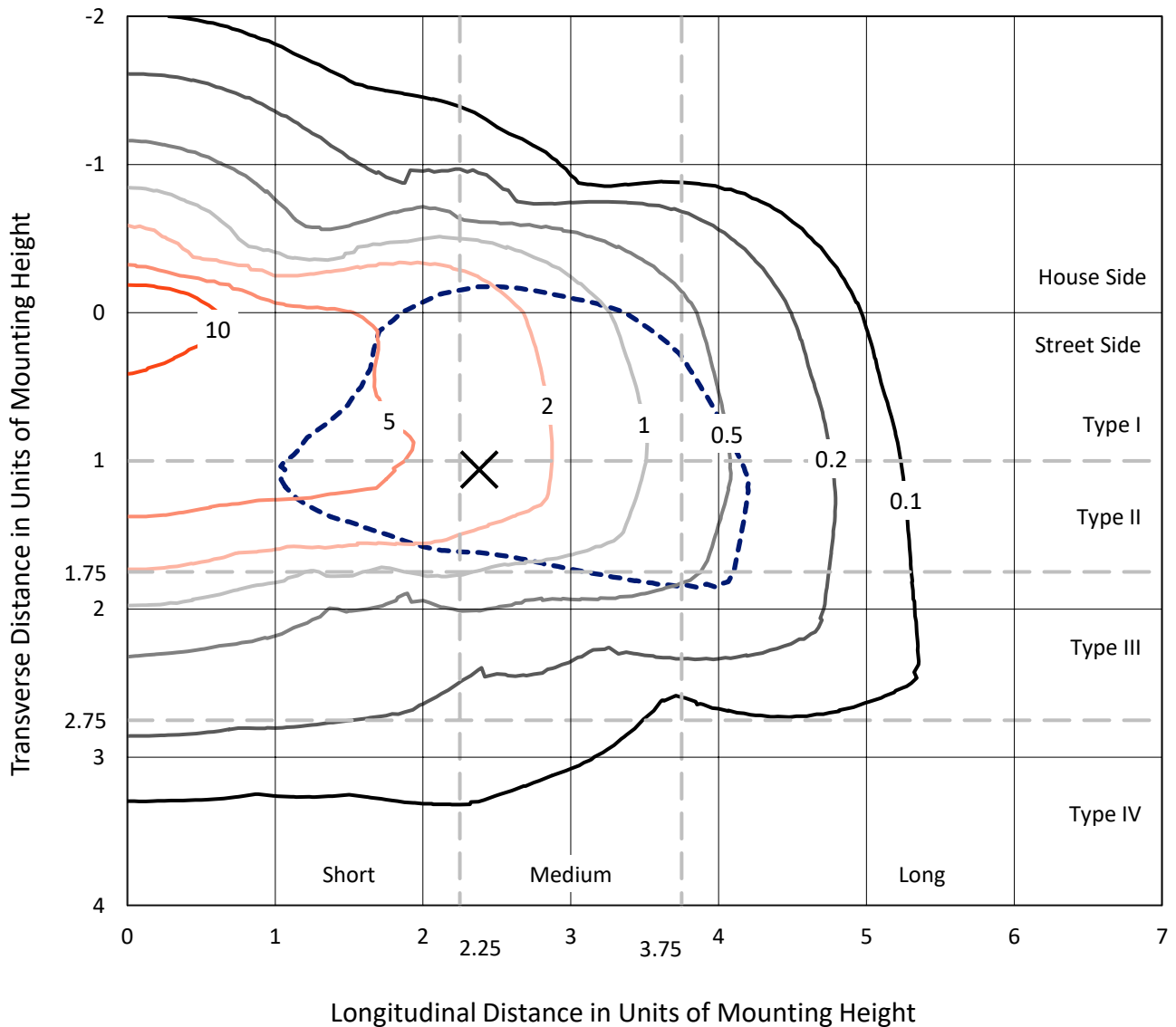
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

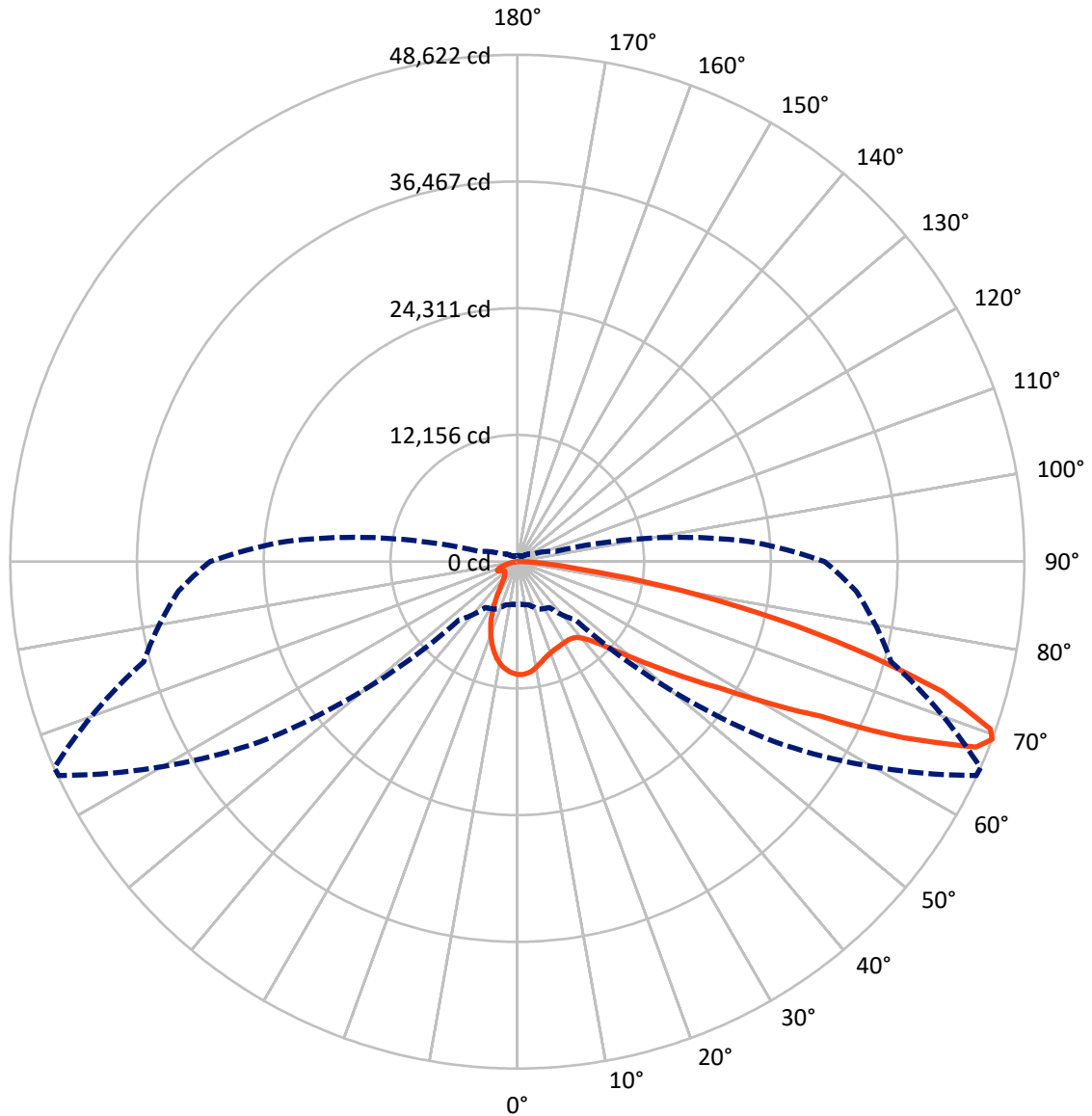
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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	8819.0	0.0	8819.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	38075.0	0.0	38075.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	46894.0	0.0	46894.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	940.4	2.0
10°-20°	2230.5	4.8
20°-30°	3036.6	6.5
30°-40°	4080.5	8.7
40°-50°	6092.9	13.0
50°-60°	9691.7	20.7
60°-70°	11920.3	25.4
70°-80°	7755.9	16.5
80°-90°	1145.3	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°	46894.0	100.0
0°-180°	46894.0	100.0

**Coefficient of Utilization**



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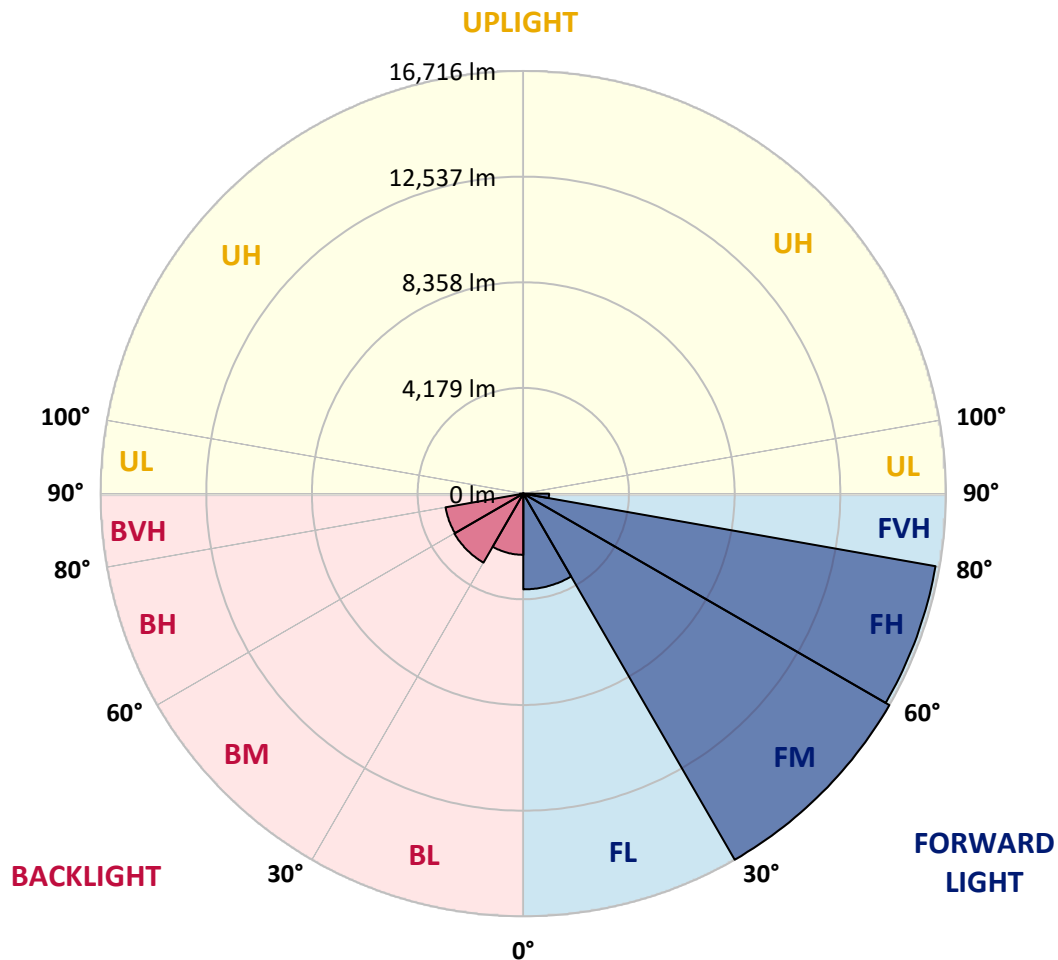
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3786.6	8.1			
FM (30°-60°)	16716.3	35.6			
FH (60°-80°)	16553.8	35.3			G5
FVH (80°-90°)	1018.2	2.2			G5
BL (0°-30°)	2420.9	5.2	B3/2500		
BM (30°-60°)	3148.8	6.7	B3/5000		
BH (60°-80°)	3122.3	6.7	B4/5000		G4/5000
BVH (80°-90°)	127.1	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°	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1
2.5°	10450.0	10491.5	10538.3	10590.2	10688.9	10743.4	10782.4	10826.5	10831.7	10855.1	10836.9
5°	9678.7	9728.0	9798.2	9896.8	10044.9	10276.0	10514.9	10709.7	10733.0	10842.1	10873.3
7.5°	9034.7	9063.2	9120.4	9278.8	9489.1	9746.2	10094.2	10488.9	10546.1	10805.8	10896.6
10°	8510.1	8538.7	8606.2	8769.8	8977.5	9299.5	9681.3	10200.7	10247.4	10694.1	10901.8
12.5°	8118.0	8143.9	8216.6	8377.6	8616.6	8917.8	9338.5	9889.0	9956.6	10546.1	10852.5
15°	7819.3	7868.6	7928.4	8060.8	8312.7	8603.6	9011.3	9603.4	9657.9	10390.2	10818.7
17.5°	7692.1	7715.4	7757.0	7879.0	8063.4	8349.1	8759.4	9380.1	9445.0	10281.2	10810.9
20°	7697.3	7720.6	7728.4	7795.9	7928.4	8175.1	8580.2	9203.5	9281.4	10185.1	10823.9
22.5°	7873.8	7876.4	7847.9	7824.5	7876.4	8081.6	8453.0	9071.0	9161.9	10143.5	10834.3
25°	8146.5	8193.3	8151.7	8042.6	7946.6	8045.2	8403.6	8998.3	9084.0	10083.8	10821.3
27.5°	8588.0	8595.8	8562.0	8414.0	8164.7	8092.0	8382.8	8943.8	9016.5	10039.7	10756.4
30°	9180.1	9156.7	9125.6	8961.9	8569.8	8271.2	8427.0	8894.4	8969.7	9974.7	10678.5
32.5°	9780.0	9852.7	9824.1	9632.0	9123.0	8619.2	8569.8	8889.2	8951.6	9925.4	10592.8
35°	10416.2	10450.0	10585.0	10486.3	9964.4	9182.7	8837.3	8969.7	9019.1	9928.0	10533.1
37.5°	10914.8	11005.7	11322.5	11408.2	10917.4	9928.0	9271.0	9198.3	9219.0	10055.2	10556.5
40°	11517.3	11673.1	12080.8	12431.4	12109.4	10896.6	10008.5	9621.6	9647.5	10361.7	10709.7
42.5°	12280.8	12389.9	12937.8	13413.1	13361.1	12176.9	10901.8	10314.9	10327.9	10972.0	11138.2
45°	13174.1	13330.0	13945.4	14659.6	14781.6	13626.0	12192.5	11364.1	11356.3	11919.8	11938.0
47.5°	14316.8	14412.9	15023.1	15802.2	16295.6	15446.4	13758.4	12870.3	12787.2	13301.4	13153.4
50°	15368.5	15519.2	15981.4	16833.2	18061.5	17578.5	15817.8	14823.2	14628.4	15108.8	14859.5
52.5°	15810.0	15968.4	16358.0	17414.9	19575.5	20336.4	18432.9	17152.6	16828.0	17196.8	17105.9
55°	15043.9	15249.1	15612.6	16898.1	20240.3	23517.6	21959.5	19845.6	19609.3	19450.9	19476.8
57.5°	12984.6	13179.3	13670.2	15088.1	19445.7	25826.3	26994.9	23307.3	22800.9	22071.2	22195.8
60°	9883.9	10005.9	10260.4	11831.5	17090.3	26426.2	32713.3	27683.1	27361.1	24681.1	24769.4
62.5°	7019.5	7157.1	7333.7	8118.0	12511.9	24735.6	37190.4	33793.6	32643.2	27384.4	27298.8
65°	5700.2	5606.7	5819.7	6185.8	7341.5	19170.4	38198.0	42275.1	40691.0	30944.8	29755.4
67.5°	4687.4	4588.7	4799.1	5450.9	5583.4	11127.8	34567.5	47780.6	47463.8	34816.8	32251.1
69°	4149.9	4097.9	4282.3	5025.0	5360.0	7902.4	30113.8	48546.7	48622.0	37099.5	32635.4
70°	3739.6	3760.3	3939.5	4809.5	5258.7	6515.7	25738.0	47489.7	48128.6	38239.5	32219.9
72.5°	2752.7	2796.9	3046.2	3983.7	5162.7	5528.8	15316.6	41480.5	42610.1	38307.1	29475.0
75°	1924.3	1903.5	2124.3	2999.4	4877.0	5479.5	8995.7	32079.7	33359.9	33110.6	24766.8
77.5°	1259.5	1293.3	1469.9	2119.1	4103.1	5437.9	5863.8	22759.3	23590.4	22143.9	14649.2
80°	888.1	885.5	984.2	1446.5	3043.6	5225.0	4801.7	14345.3	14135.0	8702.3	4344.6
82.5°	509.0	545.4	659.6	1018.0	2036.0	4599.1	4417.3	6861.0	6263.8	2480.1	1467.3
85°	283.1	296.0	392.1	615.5	1189.4	3464.3	3856.4	3121.5	2944.9	1036.2	631.0
87.5°	90.9	98.7	163.6	311.6	540.2	1636.1	2184.0	1441.3	1329.6	374.0	254.5
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°	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1	10829.1
2.5°	10844.7	10875.9	10792.8	10712.3	10639.6	10538.3	10447.4	10372.1	10320.1	10312.3	10286.4
5°	10881.1	10883.7	10725.3	10512.3	10304.6	10076.0	9839.7	9670.9	9512.5	9424.2	9380.1
7.5°	10907.0	10883.7	10598.0	10252.6	9852.7	9437.2	9021.7	8689.3	8432.2	8330.9	8369.9
10°	10896.6	10823.9	10405.8	9852.7	9271.0	8650.3	8053.0	7585.6	7157.1	6936.4	6941.5
12.5°	10839.5	10720.1	10120.2	9403.4	8549.0	7718.0	6803.9	6172.9	5676.9	5383.4	5292.5
15°	10790.2	10582.4	9785.2	8793.1	7731.0	6544.2	5430.1	4651.1	4235.6	4004.4	4001.8
17.5°	10738.2	10450.0	9419.0	8146.5	6790.9	5263.9	4095.3	3500.6	3305.9	3329.2	3290.3
20°	10683.7	10294.2	9037.3	7427.2	5645.7	3926.5	3067.0	2825.4	2880.0	2986.5	3002.0
22.5°	10621.4	10128.0	8626.9	6635.1	4440.7	2955.3	2487.8	2451.5	2591.7	2757.9	2781.3
25°	10525.3	9920.2	8110.2	5806.7	3425.3	2381.4	2178.8	2204.8	2342.4	2482.6	2498.2
27.5°	10390.2	9663.1	7588.2	4773.1	2573.5	2043.8	1991.8	2025.6	2093.1	2178.8	2199.6
30°	10208.5	9372.3	6988.3	3879.8	2061.9	1875.0	1854.2	1872.4	1911.3	1947.7	1958.1
32.5°	10026.7	9091.8	6383.2	2970.9	1838.6	1763.3	1742.5	1742.5	1742.5	1747.7	1750.3
35°	9857.9	8826.9	5734.0	2313.8	1721.8	1675.0	1646.4	1615.3	1610.1	1591.9	1591.9
37.5°	9764.4	8585.4	5043.2	1937.3	1636.1	1602.3	1563.3	1511.4	1482.8	1485.4	1480.2
40°	9782.6	8427.0	4414.8	1724.4	1565.9	1529.6	1469.9	1410.1	1391.9	1391.9	1386.8
42.5°	9987.7	8375.0	3812.3	1612.7	1498.4	1456.9	1381.6	1327.0	1316.6	1314.0	1319.2
45°	10460.4	8502.3	3272.1	1540.0	1441.3	1379.0	1303.7	1254.3	1243.9	1243.9	1241.3
47.5°	11382.3	8915.2	2885.2	1493.2	1399.7	1319.2	1241.3	1192.0	1173.8	1168.6	1168.6
50°	12815.8	9811.1	2596.9	1451.7	1347.8	1264.7	1184.2	1127.1	1098.5	1095.9	1093.3
52.5°	14807.6	11208.3	2485.2	1420.5	1290.7	1207.6	1119.3	1064.7	1028.4	1020.6	1015.4
55°	17137.0	13158.6	2638.5	1397.1	1230.9	1142.6	1051.7	994.6	960.9	945.3	942.7
57.5°	19835.2	15501.0	3220.2	1366.0	1176.4	1072.5	984.2	927.1	890.7	872.6	867.4
60°	22258.1	17908.3	4235.6	1347.8	1129.7	997.2	906.3	854.4	820.6	802.4	799.8
62.5°	24920.0	20204.0	5448.3	1397.1	1108.9	924.5	833.6	786.9	758.3	740.1	740.1
65°	27763.6	22502.3	6250.8	1563.3	1140.0	867.4	755.7	716.7	690.8	677.8	675.2
67.5°	29680.1	23296.9	5149.7	1734.7	1218.0	805.0	680.4	649.2	633.6	620.7	620.7
69°	29472.4	22291.9	3799.3	1778.9	1241.3	773.9	638.8	615.5	594.7	589.5	584.3
70°	28815.3	21146.7	3183.8	1750.3	1223.1	745.3	612.9	584.3	566.1	560.9	558.3
72.5°	25665.3	18339.4	2371.0	1521.8	1041.4	646.6	542.8	516.8	501.2	493.4	493.4
75°	21323.3	14989.4	1851.6	1210.2	815.4	545.4	464.8	444.1	431.1	425.9	423.3
77.5°	11951.0	8369.9	1329.6	947.9	618.1	441.5	389.5	371.4	358.4	353.2	353.2
80°	3329.2	2391.8	781.7	625.9	420.7	335.0	309.0	296.0	277.9	264.9	272.7
82.5°	1254.3	1036.2	446.7	376.6	267.5	223.3	215.5	205.2	197.4	179.2	179.2
85°	610.3	503.8	285.7	200.0	148.0	116.9	111.7	106.5	101.3	88.3	90.9
87.5°	210.3	223.3	124.7	72.7	44.1	28.6	23.4	13.0	13.0	13.0	13.0
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)