

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: P456987

Luminaire Tested: **GALN-SA8B-740-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456987  
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-SA8B-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA 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: 44976 lumens  
Efficiency: N/A  
Efficacy: 138.4 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

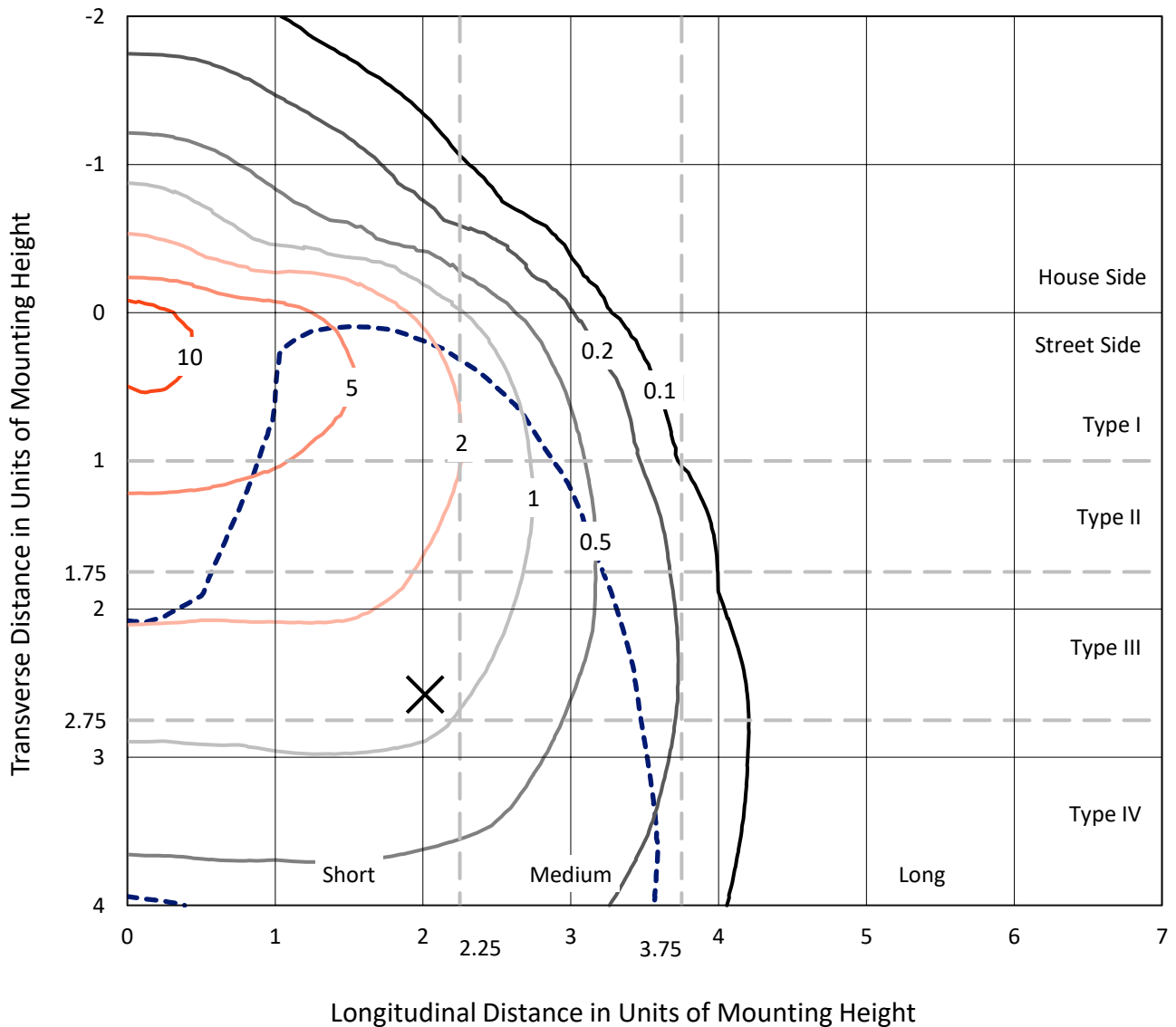
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

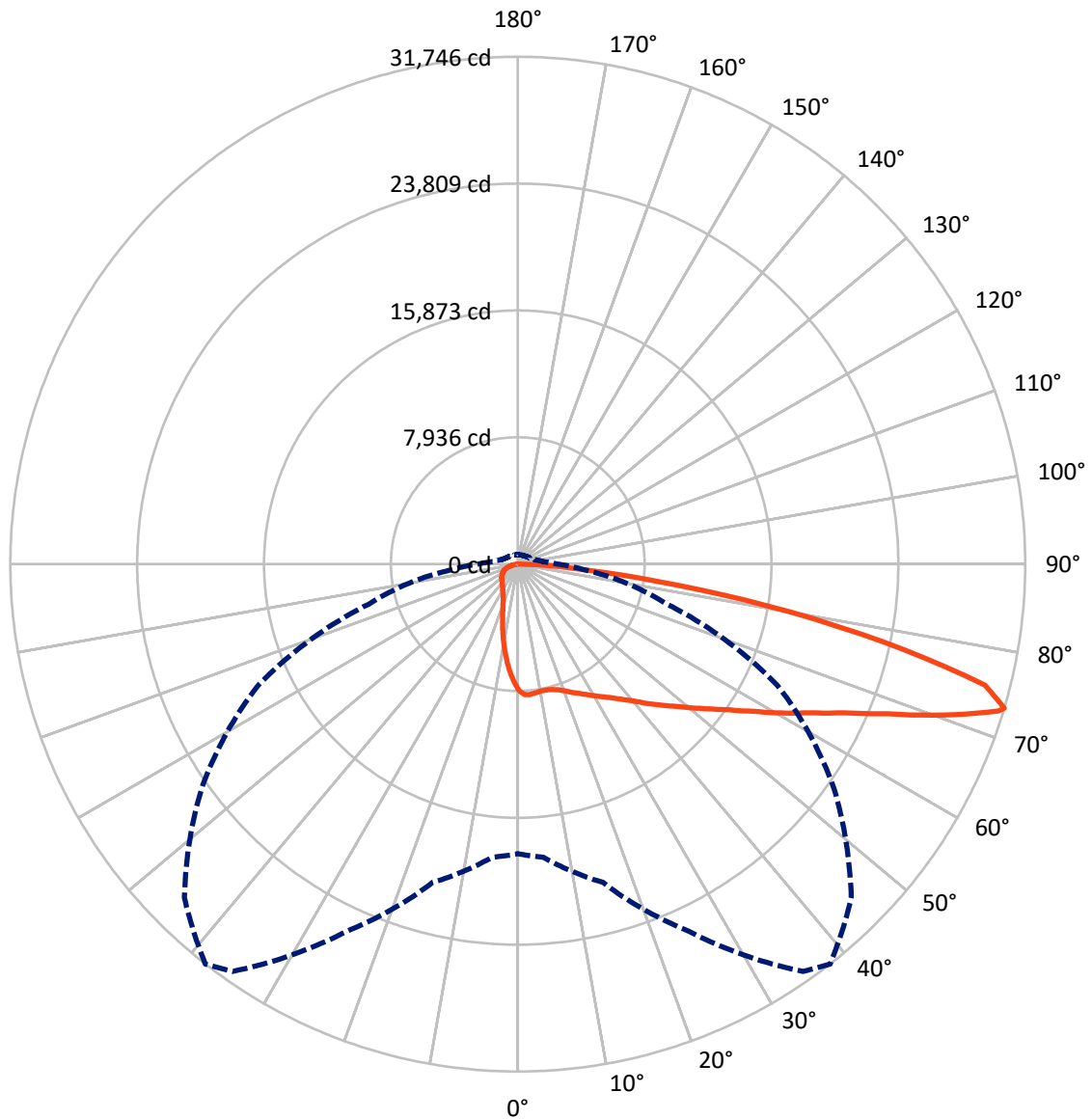
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	6046.1	0.0	6046.1
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	38929.9	0.0	38929.9
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	44976.0	0.0	44976.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	689.7	1.5
10°-20°	1768.7	3.9
20°-30°	2754.1	6.1
30°-40°	4039.7	9.0
40°-50°	5992.4	13.3
50°-60°	8490.1	18.9
60°-70°	10769.9	23.9
70°-80°	8965.1	19.9
80°-90°	1506.3	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°	44976.0	100.0
0°-180°	44976.0	100.0

**Coefficient of Utilization**



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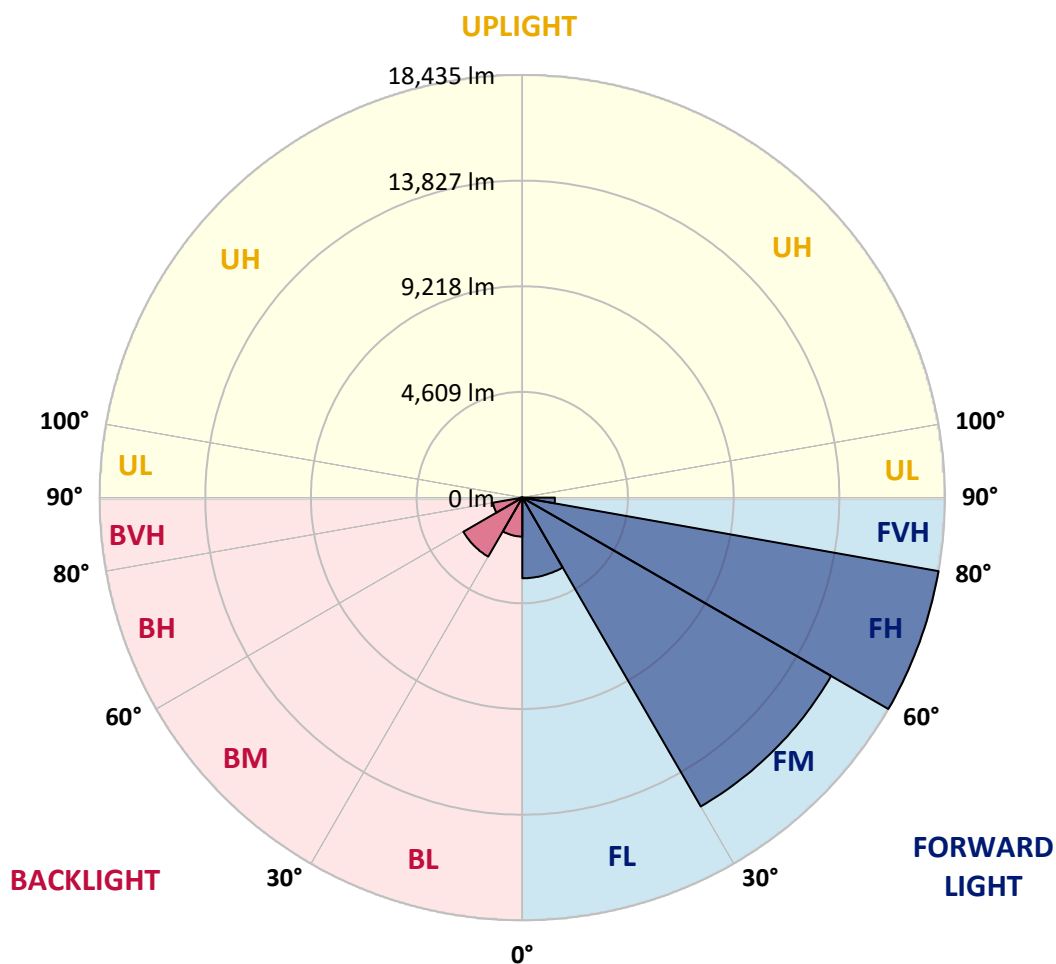
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3515.9	7.8			
FM	(30°-60°)	15553.9	34.6			
FH	(60°-80°)	18435.5	41.0			G5
FVH	(80°-90°)	1424.6	3.2			G5
BL	(0°-30°)	1696.6	3.8	B3/2500		
BM	(30°-60°)	2968.3	6.6	B3/5000		
BH	(60°-80°)	1299.6	2.9	B3/2500		G3/2500
BVH	(80°-90°)	81.7	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°	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5
2.5°	8219.0	8259.6	8239.3	8211.4	8193.6	8175.8	8150.4	8076.8	8018.4	7954.9	7855.8
5°	8280.0	8305.4	8287.6	8252.0	8211.4	8193.6	8145.3	8048.8	7954.9	7848.2	7700.9
7.5°	8244.4	8254.6	8234.2	8191.1	8155.5	8122.5	8066.6	7959.9	7845.6	7716.1	7523.1
10°	8117.4	8155.5	8155.5	8119.9	8084.4	8066.6	8010.7	7909.1	7805.0	7657.7	7429.1
12.5°	8013.3	8053.9	8086.9	8076.8	8074.2	8074.2	8031.1	7954.9	7832.9	7693.3	7421.5
15°	7942.2	7990.4	8061.5	8102.2	8127.6	8135.2	8117.4	8051.4	7926.9	7764.4	7452.0
17.5°	7926.9	7985.3	8114.9	8203.8	8269.8	8267.3	8262.2	8170.7	8033.6	7866.0	7490.1
20°	7995.5	8071.7	8252.0	8391.7	8488.2	8470.5	8442.5	8323.1	8163.1	7975.2	7525.6
22.5°	8201.2	8280.0	8478.1	8630.5	8724.4	8724.4	8640.6	8483.2	8313.0	8102.2	7573.9
25°	8495.8	8582.2	8793.0	8947.9	8991.1	8958.1	8874.3	8683.8	8488.2	8285.0	7675.5
27.5°	8856.5	8960.6	9156.2	9285.7	9273.0	9247.6	9161.3	8917.5	8721.9	8536.5	7848.2
30°	9306.1	9382.3	9585.5	9615.9	9570.2	9565.1	9443.2	9199.4	9016.5	8874.3	8094.6
32.5°	9730.2	9798.8	9961.4	9974.1	9892.8	9902.9	9788.6	9565.1	9461.0	9410.2	8508.5
35°	10179.8	10215.3	10355.0	10339.8	10286.5	10278.8	10233.1	10019.8	10052.8	10144.2	9095.3
37.5°	10555.7	10626.8	10705.5	10718.2	10715.7	10741.1	10771.6	10670.0	10860.5	11147.5	9864.8
40°	10901.1	10962.1	11078.9	11119.5	11218.6	11269.4	11373.5	11376.1	11815.5	12287.9	10812.2
42.5°	11134.8	11238.9	11457.3	11531.0	11772.3	11924.7	12079.6	12244.7	12882.2	13489.2	11929.7
45°	11338.0	11475.1	11838.3	12066.9	12394.5	12580.0	12907.6	13253.0	14169.9	14964.9	13065.1
47.5°	11645.3	11767.2	12183.7	12587.6	13082.8	13296.2	13786.4	14302.0	15500.8	16372.0	14152.1
50°	12072.0	12145.6	12569.8	13227.6	13860.0	14134.4	14782.0	15526.2	16923.1	17761.3	15107.1
52.5°	12618.1	12648.5	12986.3	13862.6	14695.7	15036.0	15894.5	16763.1	18167.7	18967.7	15864.0
55°	13263.2	13212.4	13476.5	14535.6	15650.6	16095.1	17017.1	18015.3	19567.1	19943.0	16415.1
57.5°	13900.7	13821.9	14032.8	15353.5	16829.1	17365.1	18439.4	19305.5	20816.7	20854.8	16801.2
60°	14576.3	14517.9	14769.3	16313.6	18274.3	18909.3	19902.4	20644.0	22025.7	21489.8	16862.2
62.5°	15269.7	15175.7	15533.8	17393.0	19902.4	20478.9	21441.5	22066.3	23211.8	21726.0	16275.5
65°	15942.7	15899.6	16453.2	18675.6	21756.5	22411.8	23346.4	23770.6	24161.7	21370.4	14820.1
67.5°	16659.0	16745.3	17629.2	20387.5	24174.4	24997.4	26005.7	25606.9	24433.5	19686.5	12480.9
70°	17751.1	17807.0	19173.4	22630.2	27290.9	28283.9	28771.6	26259.7	23122.9	16488.8	9382.3
72.5°	18221.0	18467.4	20552.6	24984.7	30831.4	31438.5	29701.2	24804.3	19262.3	11200.8	4929.9
73°	18116.9	18411.5	20616.1	25342.8	31108.3	31745.8	29503.1	24055.1	17906.1	9646.4	4226.3
75°	16819.0	17182.2	19790.6	25043.1	30569.8	30188.8	26318.1	20501.8	12099.9	4386.3	1925.2
77.5°	13270.8	13374.9	15681.1	20222.4	24072.8	23366.8	19696.7	12813.6	4942.6	1630.6	1092.1
80°	6657.0	7040.5	8838.7	11584.3	16097.7	15866.5	12432.6	6060.1	2059.8	957.5	723.9
82.5°	3202.8	3474.5	4305.1	5648.7	8894.6	8683.8	6156.6	3312.0	1308.0	558.8	426.7
85°	2062.4	2265.6	2740.5	2694.8	3657.4	3492.3	2765.9	2506.8	774.7	292.1	297.2
87.5°	1361.4	1490.9	1788.1	1429.9	1330.9	1203.9	1221.7	1412.2	152.4	111.8	40.6
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°	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5	7901.5
2.5°	7815.2	7782.1	7672.9	7566.3	7464.7	7368.1	7304.7	7220.8	7165.0	7180.2	7203.1
5°	7619.6	7545.9	7352.9	7165.0	6987.2	6776.4	6606.2	6469.0	6364.9	6326.8	6319.2
7.5°	7413.9	7289.4	7012.6	6690.0	6387.8	6126.2	5823.9	5674.1	5498.8	5437.9	5417.5
10°	7289.4	7121.8	6733.2	6283.6	5829.0	5394.7	5067.0	4800.3	4559.1	4513.3	4490.5
12.5°	7253.9	7032.9	6509.7	5930.6	5326.1	4792.7	4307.6	3957.1	3723.4	3670.1	3591.4
15°	7233.5	6959.2	6301.4	5575.0	4808.0	4157.8	3647.2	3238.3	3025.0	2882.7	2885.3
17.5°	7215.8	6875.4	6067.7	5186.4	4360.9	3611.7	3047.8	2679.6	2484.0	2407.8	2400.2
20°	7190.4	6776.4	5798.5	4777.5	3850.4	3113.9	2603.4	2329.1	2197.0	2133.5	2130.9
22.5°	7180.2	6679.8	5534.4	4360.9	3398.3	2730.4	2308.7	2115.7	2031.9	1988.7	1988.7
25°	7205.6	6611.3	5257.5	3964.7	2997.0	2402.7	2105.5	1973.5	1925.2	1902.4	1894.7
27.5°	7284.3	6580.8	4983.2	3568.5	2628.8	2179.2	1968.4	1877.0	1841.4	1823.6	1826.2
30°	7434.2	6578.3	4714.0	3177.4	2354.5	2009.0	1859.2	1795.7	1767.7	1757.6	1755.0
32.5°	7675.5	6634.1	4449.8	2854.8	2123.3	1866.8	1757.6	1711.9	1699.2	1691.6	1689.0
35°	8084.4	6791.6	4188.2	2560.2	1945.5	1739.8	1661.1	1638.2	1620.4	1628.1	1630.6
37.5°	8635.5	7063.4	3939.3	2329.1	1810.9	1645.8	1579.8	1559.5	1549.3	1556.9	1564.6
40°	9374.6	7454.5	3731.1	2143.6	1714.4	1567.1	1508.7	1490.9	1480.7	1493.4	1496.0
42.5°	10189.9	7906.6	3558.4	1998.9	1635.7	1501.1	1445.2	1424.9	1417.2	1424.9	1427.4
45°	11028.1	8432.4	3469.5	1894.7	1569.6	1452.8	1394.4	1371.5	1353.7	1348.7	1356.3
47.5°	11853.6	8889.5	3466.9	1831.2	1516.3	1409.6	1346.1	1320.7	1297.9	1285.2	1282.6
50°	12526.6	9252.7	3527.9	1803.3	1470.6	1361.4	1297.9	1272.5	1242.0	1216.6	1221.7
52.5°	13034.6	9488.9	3555.8	1790.6	1445.2	1310.6	1247.1	1224.2	1188.7	1155.6	1155.6
55°	13362.2	9544.8	3487.2	1777.9	1424.9	1257.2	1188.7	1168.3	1132.8	1099.8	1099.8
57.5°	13474.0	9372.1	3240.9	1747.4	1404.5	1211.5	1130.2	1112.5	1084.5	1051.5	1046.4
60°	13214.9	8787.9	2809.1	1656.0	1363.9	1163.3	1066.7	1059.1	1049.0	1021.0	1018.5
62.5°	12216.8	7548.5	2339.2	1536.6	1295.3	1112.5	1008.3	1021.0	1028.6	1013.4	1010.9
65°	10555.7	6128.7	1998.9	1371.5	1203.9	1041.3	944.8	977.8	998.2	998.2	993.1
67.5°	8561.9	4706.4	1683.9	1229.3	1089.6	944.8	873.7	899.1	914.4	909.3	922.0
70°	6085.5	3187.5	1371.5	1066.7	944.8	835.6	782.3	782.3	772.1	767.0	767.0
72.5°	2951.3	1821.1	1112.5	891.5	805.1	713.7	670.5	652.7	632.4	629.9	617.2
73°	2466.2	1633.1	1061.7	858.5	772.1	695.9	647.7	619.7	607.0	596.9	594.3
75°	1501.1	1239.5	886.4	723.9	657.8	599.4	556.2	530.8	518.1	510.5	508.0
77.5°	988.0	924.5	688.3	553.7	502.9	467.3	449.6	424.2	416.5	406.4	406.4
80°	736.6	706.1	492.7	391.1	360.7	330.2	325.1	320.0	299.7	287.0	281.9
82.5°	475.0	502.9	335.3	261.6	228.6	203.2	205.7	213.3	193.0	175.3	170.2
85°	337.8	363.2	203.2	119.4	96.5	83.8	94.0	83.8	86.4	68.6	55.9
87.5°	55.9	96.5	35.6	15.2	7.6	5.1	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)