

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: P455593

Luminaire Tested: **GALN-SA6D-740-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455593  
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-SA6D-740-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA 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: 45468 lumens  
Efficiency: N/A  
Efficacy: 123.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

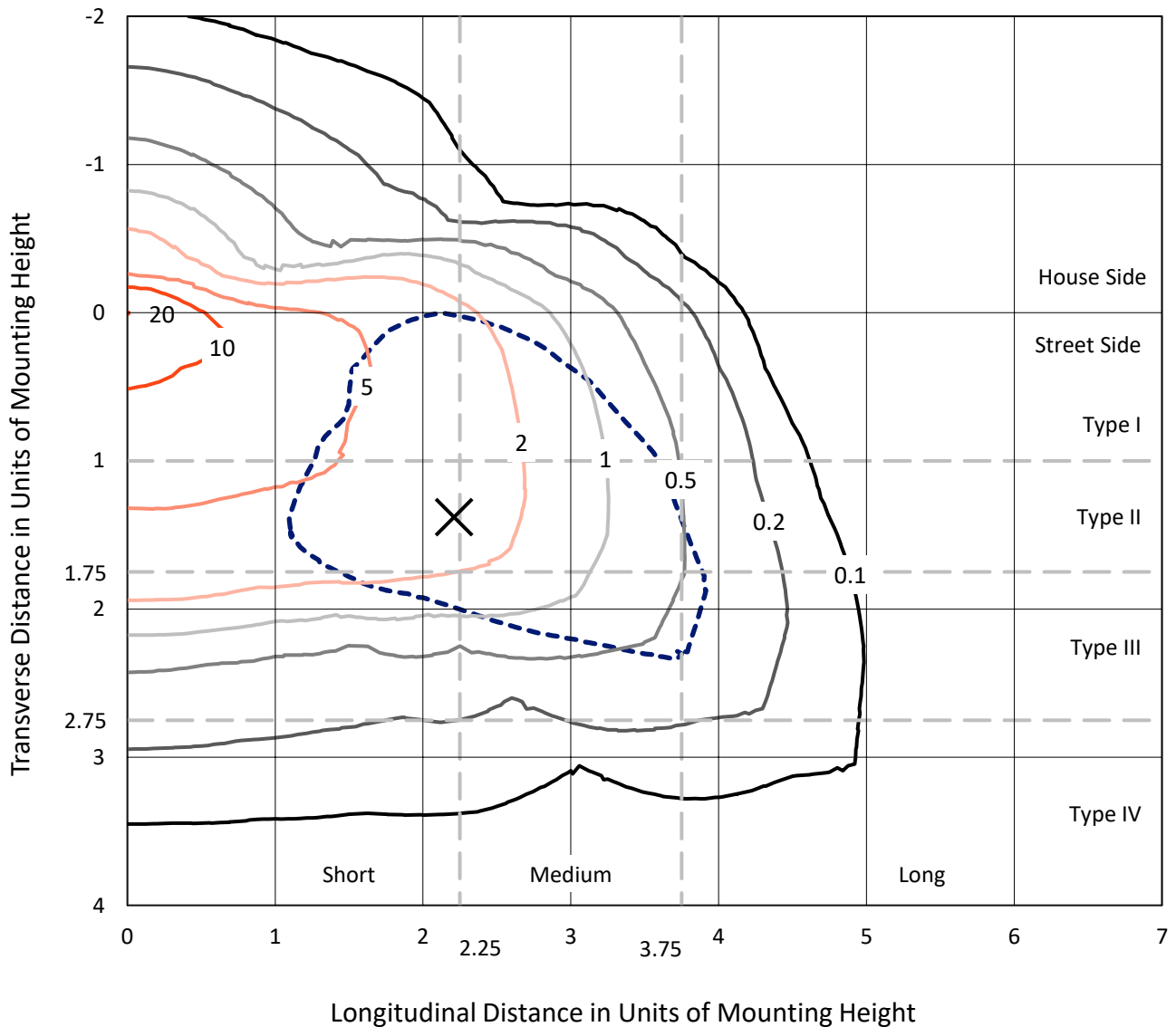
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

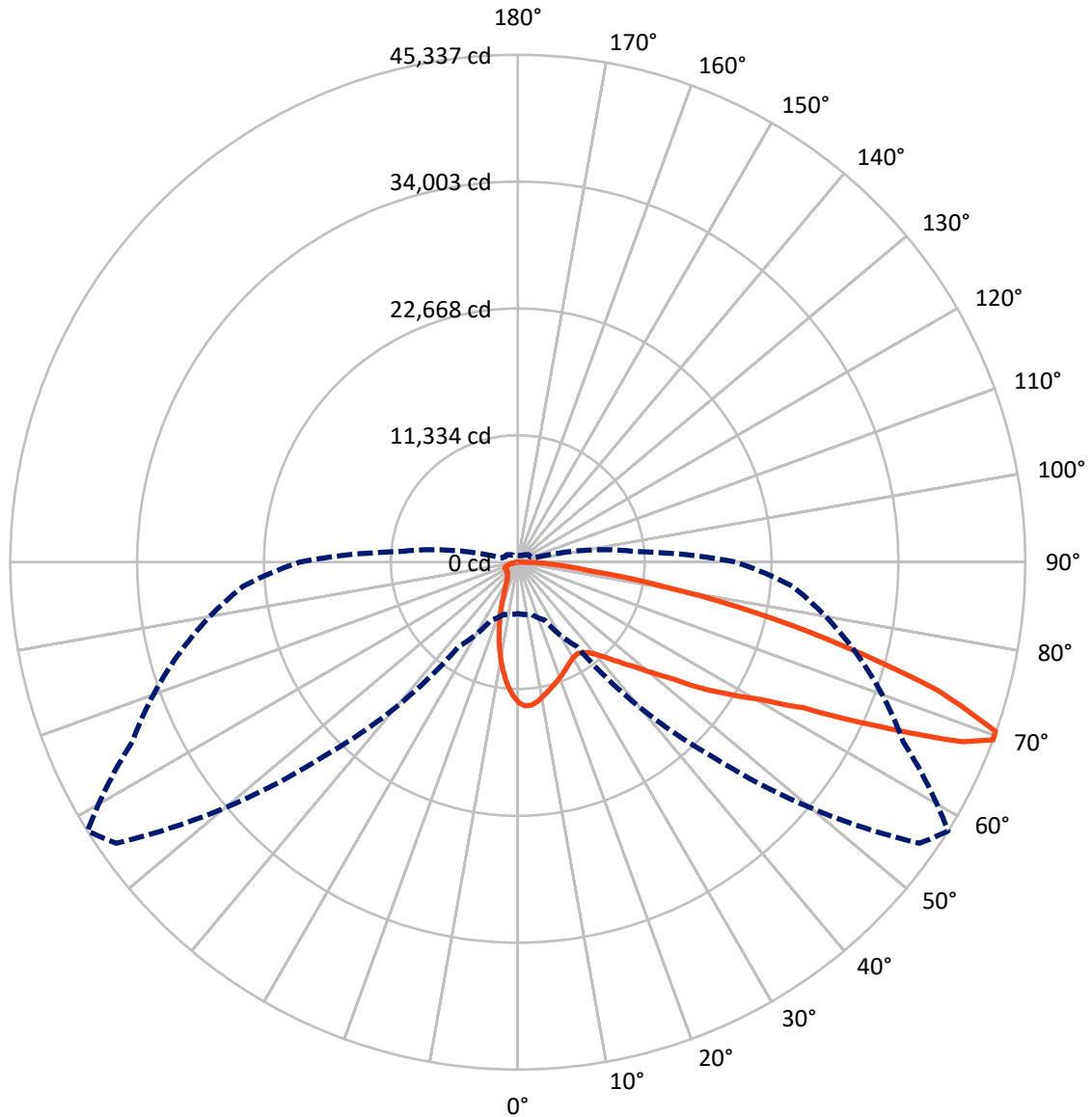
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6663.3	0.0	6663.3
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	38804.7	0.0	38804.7
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	45468.0	0.0	45468.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1067.0	2.3
10°-20°	2343.1	5.2
20°-30°	3027.3	6.7
30°-40°	3931.8	8.6
40°-50°	5716.3	12.6
50°-60°	9121.3	20.1
60°-70°	12185.0	26.8
70°-80°	7024.1	15.4
80°-90°	1052.1	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°	45468.0	100.0
0°-180°	45468.0	100.0

**Coefficient of Utilization**

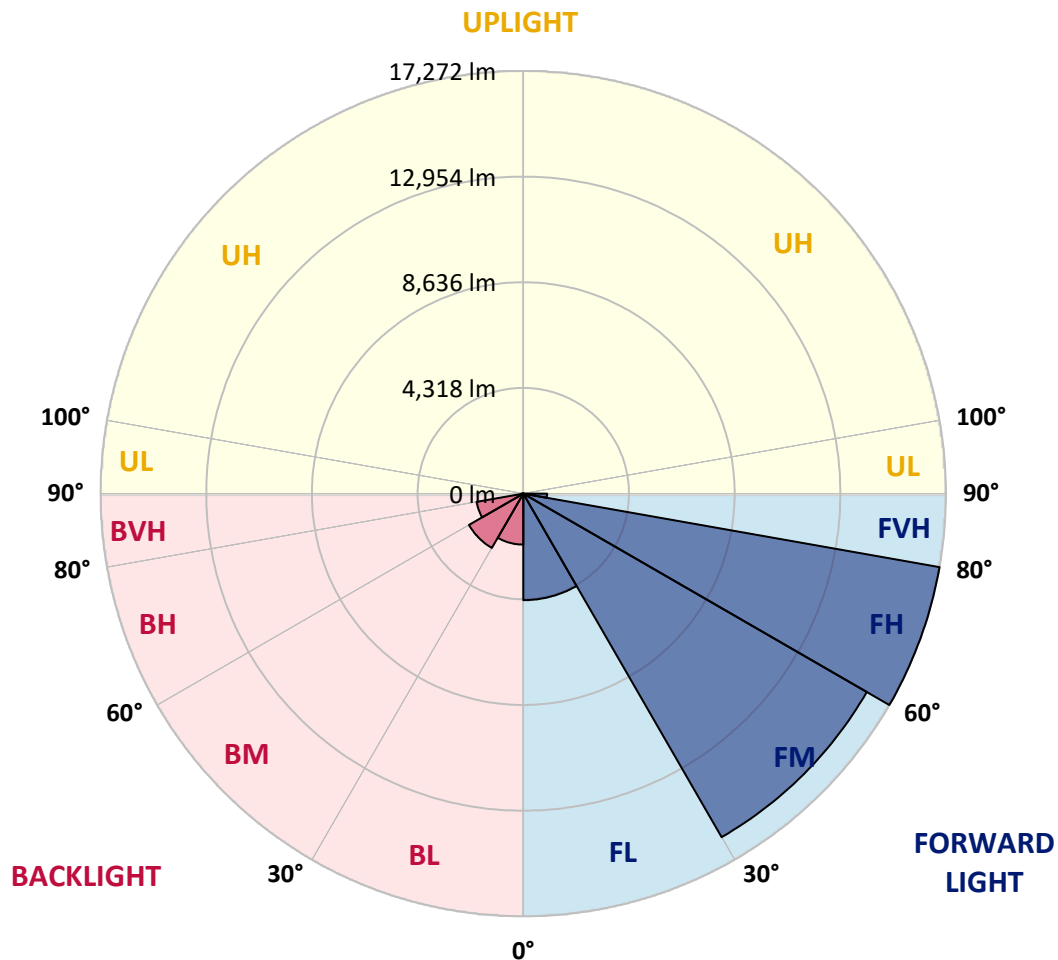


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4354.7	9.6			
FM	(30°-60°)	16207.0	35.6			
FH	(60°-80°)	17271.5	38.0			G5
FVH	(80°-90°)	971.5	2.1			G5
BL	(0°-30°)	2082.7	4.6	B3/2500		
BM	(30°-60°)	2562.5	5.6	B3/5000		
BH	(60°-80°)	1937.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	80.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7
2.5°	13031.3	13066.8	13056.6	13044.0	13023.7	12967.9	12876.6	12861.4	12803.1	12678.8	12524.1
5°	12830.9	12861.4	12863.9	12881.7	12907.0	12896.9	12830.9	12823.3	12737.1	12569.8	12311.1
7.5°	12143.8	12184.3	12273.1	12372.0	12460.7	12544.4	12564.7	12577.4	12524.1	12331.4	11986.5
10°	11370.4	11410.9	11451.5	11598.6	11816.6	12024.6	12197.0	12219.8	12232.5	12055.0	11634.1
12.5°	10513.3	10596.9	10683.2	10901.2	11192.8	11520.0	11824.3	11872.4	11958.6	11824.3	11329.8
15°	9785.5	9871.7	9996.0	10191.2	10543.7	11015.3	11443.9	11522.5	11692.4	11623.9	11045.8
17.5°	9280.9	9311.3	9397.5	9620.7	10001.0	10498.0	11071.1	11228.3	11499.7	11481.9	10802.3
20°	8882.8	8920.8	8974.1	9111.0	9506.6	10031.5	10723.7	10926.6	11294.3	11355.1	10561.4
22.5°	8715.4	8743.3	8735.7	8809.2	9078.0	9605.5	10371.3	10612.2	11111.7	11268.9	10338.3
25°	8725.6	8750.9	8712.9	8695.1	8854.9	9230.2	10003.6	10310.4	10964.6	11210.6	10135.4
27.5°	8895.4	8913.2	8842.2	8771.2	8783.9	8996.9	9699.3	10039.1	10840.4	11236.0	9965.5
30°	9123.7	9156.6	9111.0	9024.8	8930.9	8941.1	9504.0	9838.8	10782.1	11324.7	9884.4
32.5°	9417.8	9448.2	9428.0	9359.5	9237.8	9103.4	9455.9	9765.2	10787.1	11504.7	9866.6
35°	9727.2	9788.0	9821.0	9815.9	9717.0	9483.7	9646.0	9902.1	10908.8	11806.5	9970.6
37.5°	10077.1	10127.8	10269.8	10361.1	10269.8	9998.5	10074.6	10252.1	11177.6	12242.7	10198.8
40°	10416.9	10493.0	10700.9	10984.9	10949.4	10711.1	10728.8	10845.4	11651.8	12891.8	10645.1
42.5°	10771.9	10863.2	11225.8	11646.7	11730.4	11545.3	11593.5	11697.5	12326.3	13792.0	11410.9
45°	11228.3	11337.4	11783.7	12308.6	12638.2	12524.1	12661.1	12711.8	13229.1	14963.5	12420.2
47.5°	11816.6	11943.4	12493.7	13147.9	13614.5	13718.5	13956.8	13926.4	14347.3	16350.6	13728.6
50°	12808.1	12879.1	13399.0	14065.9	14707.4	15176.5	15435.2	15483.4	15734.4	17699.6	15191.7
52.5°	13987.3	14050.6	14425.9	15009.2	15813.0	16807.0	17446.0	17288.8	17349.7	19342.8	16903.4
55°	15313.5	15420.0	15658.3	16046.3	17088.5	18551.6	19834.7	19872.8	19198.2	20915.0	18544.0
57.5°	16340.4	16520.5	16928.7	17481.5	18802.7	20491.5	22215.8	22241.2	21379.0	22593.6	20354.5
60°	15823.1	16036.1	16969.3	18315.8	21051.9	23876.7	25060.9	24916.4	23501.4	24505.6	22563.2
62.5°	13591.7	13629.7	14986.3	17091.0	21744.1	28405.6	29295.6	28684.5	26333.9	26929.8	24807.3
65°	8796.6	9045.1	10120.2	13069.3	19469.6	30918.5	36715.3	35302.9	30304.9	29681.1	26686.3
67.5°	5553.3	5489.9	5936.2	7462.7	13391.4	28704.8	43047.1	42823.9	35498.1	31418.1	26237.5
69°	4604.9	4675.9	4828.1	5720.7	9215.0	24508.1	43795.1	45336.9	38016.1	31281.1	24607.0
70°	4176.4	4209.4	4369.1	5071.5	7110.3	20527.0	42567.8	45268.4	39005.1	30708.1	23425.4
72.5°	3314.2	3311.7	3585.6	4219.5	5315.0	11717.7	34952.9	39301.8	37899.5	28040.4	19355.5
75°	2518.0	2558.6	2860.3	3570.4	4896.6	6402.8	24391.5	30266.8	30269.4	22147.3	12077.8
77.5°	1815.6	1841.0	2193.4	2997.3	4612.5	5190.7	16246.6	21708.6	20407.8	10148.1	3796.0
80°	1189.3	1204.5	1473.3	2373.5	4158.6	4896.6	9633.4	13287.4	9625.7	2693.0	1255.2
82.5°	651.7	727.8	900.2	1536.7	3337.1	4523.8	5855.1	6724.8	3610.9	1199.4	654.2
85°	327.1	347.4	507.2	897.7	2180.8	3742.8	4077.5	3856.9	1863.8	595.9	339.8
87.5°	96.4	121.7	210.5	347.4	885.0	1950.0	2269.5	2036.2	717.6	215.5	71.0
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°	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7	12564.7
2.5°	12460.7	12415.1	12212.2	12029.6	11862.3	11684.8	11535.2	11403.3	11416.0	11418.5	11284.1
5°	12176.7	12072.8	11687.3	11327.2	11023.0	10637.5	10307.9	10094.9	9988.4	9846.4	9897.1
7.5°	11791.3	11591.0	11055.9	10457.5	9897.1	9397.5	8854.9	8482.1	8243.8	8013.0	8043.4
10°	11393.2	11071.1	10292.7	9501.5	8776.3	7977.5	7285.2	6691.9	6250.6	6085.8	5976.8
12.5°	10984.9	10561.4	9572.5	8520.2	7518.5	6562.5	5581.2	4944.7	4457.9	4199.2	4232.2
15°	10612.2	10097.4	8821.9	7538.8	6238.0	5099.4	4120.6	3514.6	3174.8	3103.8	3144.3
17.5°	10267.3	9592.8	8119.5	6585.4	5066.4	3823.9	3096.2	2753.8	2616.9	2578.9	2576.3
20°	9912.3	9164.2	7330.9	5566.0	3948.2	2964.3	2540.8	2381.1	2355.7	2370.9	2373.5
22.5°	9552.2	8634.3	6519.4	4554.2	3144.3	2424.2	2221.3	2178.2	2198.5	2234.0	2239.1
25°	9220.0	8167.7	5738.4	3666.7	2510.4	2130.0	2031.1	2031.1	2076.8	2130.0	2132.6
27.5°	8946.2	7716.3	4959.9	2911.1	2102.1	1917.0	1884.1	1901.8	1965.2	2005.8	2008.3
30°	8720.5	7295.4	4224.6	2332.9	1848.6	1747.1	1739.5	1770.0	1815.6	1853.6	1856.2
32.5°	8550.6	6925.2	3537.4	1960.1	1673.6	1617.8	1615.3	1638.1	1663.5	1673.6	1683.7
35°	8484.7	6618.3	2908.5	1724.3	1557.0	1521.5	1521.5	1518.9	1529.1	1534.1	1539.2
37.5°	8537.9	6382.5	2421.7	1572.2	1470.7	1445.4	1430.2	1415.0	1409.9	1409.9	1412.4
40°	8763.6	6258.3	2059.0	1473.3	1409.9	1371.8	1344.0	1326.2	1308.5	1313.5	1318.6
42.5°	9242.8	6281.1	1813.1	1407.3	1356.6	1303.4	1262.8	1242.5	1229.8	1245.1	1242.5
45°	10006.1	6509.3	1655.9	1361.7	1303.4	1234.9	1196.9	1176.6	1176.6	1199.4	1207.0
47.5°	11073.7	6945.4	1572.2	1326.2	1262.8	1181.7	1143.6	1128.4	1133.5	1171.5	1174.1
50°	12377.0	7703.6	1557.0	1308.5	1242.5	1143.6	1100.5	1085.3	1098.0	1138.6	1143.6
52.5°	13814.8	8679.9	1630.5	1311.0	1224.8	1120.8	1065.0	1042.2	1054.9	1087.8	1098.0
55°	15518.9	9902.1	1820.7	1321.1	1199.4	1108.1	1039.7	988.9	1004.2	1027.0	1029.5
57.5°	17258.4	11443.9	2155.4	1323.7	1179.1	1085.3	996.6	930.6	930.6	945.8	953.4
60°	19383.4	13122.6	2596.6	1326.2	1181.7	1052.3	938.2	864.7	854.6	862.2	864.7
62.5°	21493.1	14527.4	2670.2	1318.6	1207.0	1019.4	874.8	798.8	781.0	778.5	773.4
65°	22423.7	14266.2	2188.4	1283.1	1234.9	999.1	824.1	735.4	704.9	694.8	694.8
67.5°	20907.3	12067.7	1645.7	1234.9	1217.2	978.8	775.9	682.1	646.6	626.3	626.3
69°	19482.2	10733.9	1478.3	1202.0	1171.5	945.8	745.5	654.2	611.1	588.3	580.7
70°	18381.7	9815.9	1407.3	1174.1	1128.4	907.8	722.7	633.9	585.8	560.4	555.3
72.5°	14669.4	7701.1	1232.4	1067.6	961.1	763.3	641.5	570.5	524.9	497.0	489.4
75°	8454.2	4173.9	1021.9	928.1	773.4	593.4	542.7	497.0	461.5	436.2	428.5
77.5°	2601.7	1612.7	740.4	732.8	568.0	459.0	433.6	415.9	390.5	362.6	357.5
80°	1095.4	821.6	502.1	494.5	377.8	319.5	311.9	309.4	299.2	276.4	268.8
82.5°	601.0	464.0	349.9	304.3	228.2	185.1	192.7	195.3	187.6	164.8	149.6
85°	294.1	253.6	169.9	136.9	104.0	65.9	63.4	76.1	71.0	50.7	55.8
87.5°	58.3	71.0	45.6	20.3	10.1	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)