

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: P455363

Luminaire Tested: **GALN-SA6C-740-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455363  
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-SA6C-740-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 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: 40808 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

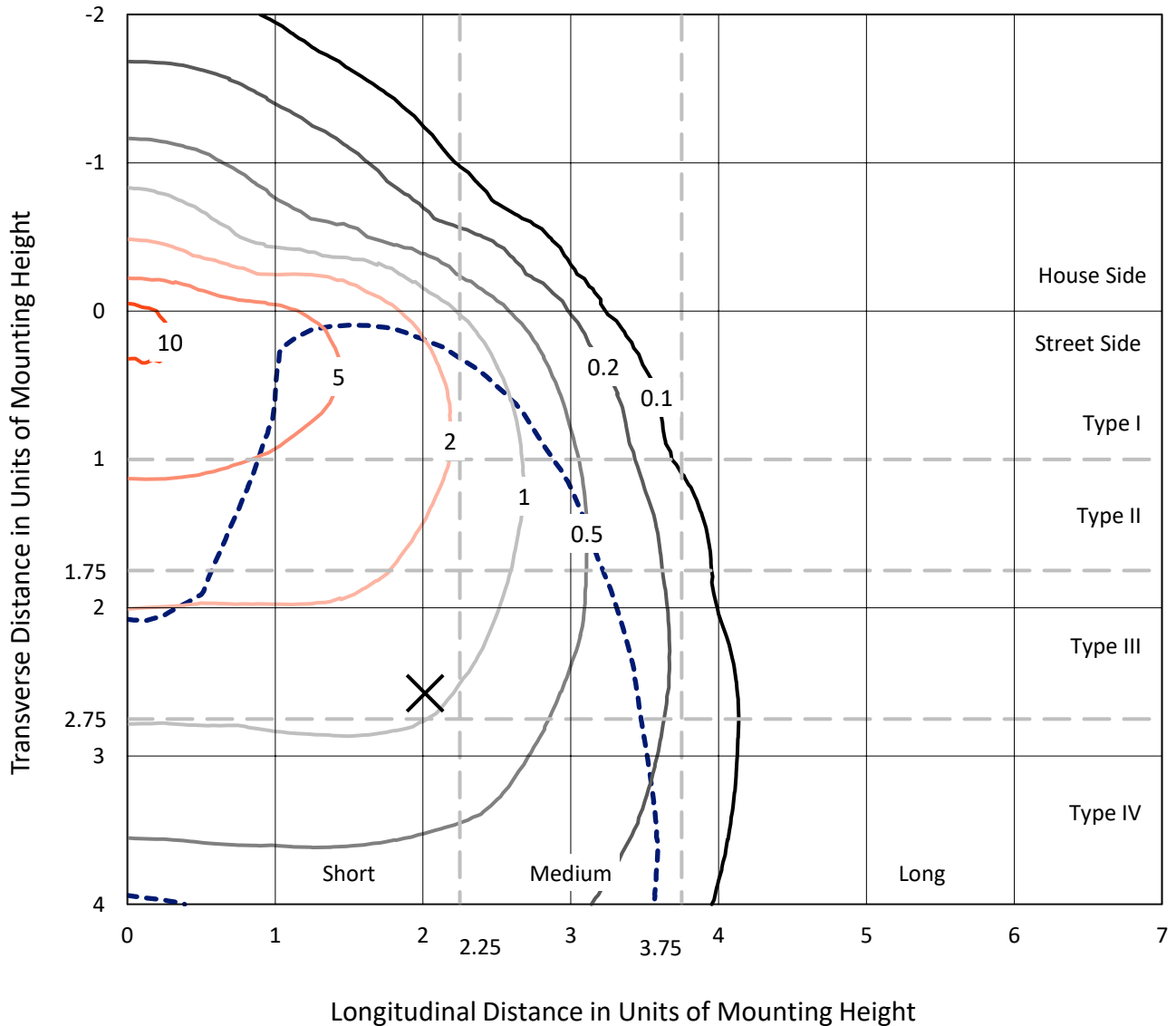
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

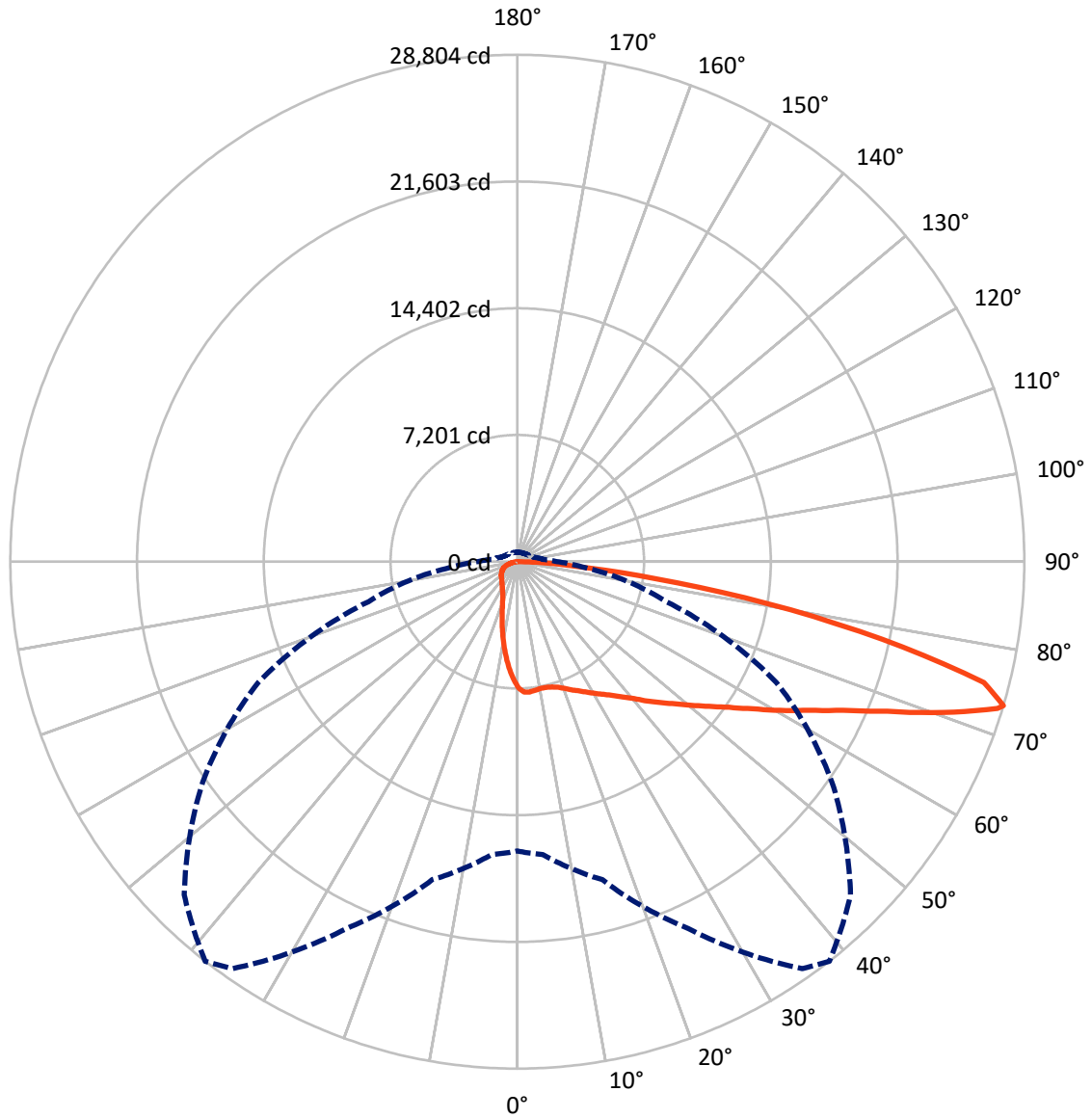
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	5485.8	0.0	5485.8
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	35322.2	0.0	35322.2
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	40808.0	0.0	40808.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	625.8	1.5
10°-20°	1604.8	3.9
20°-30°	2498.9	6.1
30°-40°	3665.3	9.0
40°-50°	5437.1	13.3
50°-60°	7703.3	18.9
60°-70°	9771.8	23.9
70°-80°	8134.3	19.9
80°-90°	1366.7	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°	40808.0	100.0
0°-180°	40808.0	100.0

**Coefficient of Utilization**



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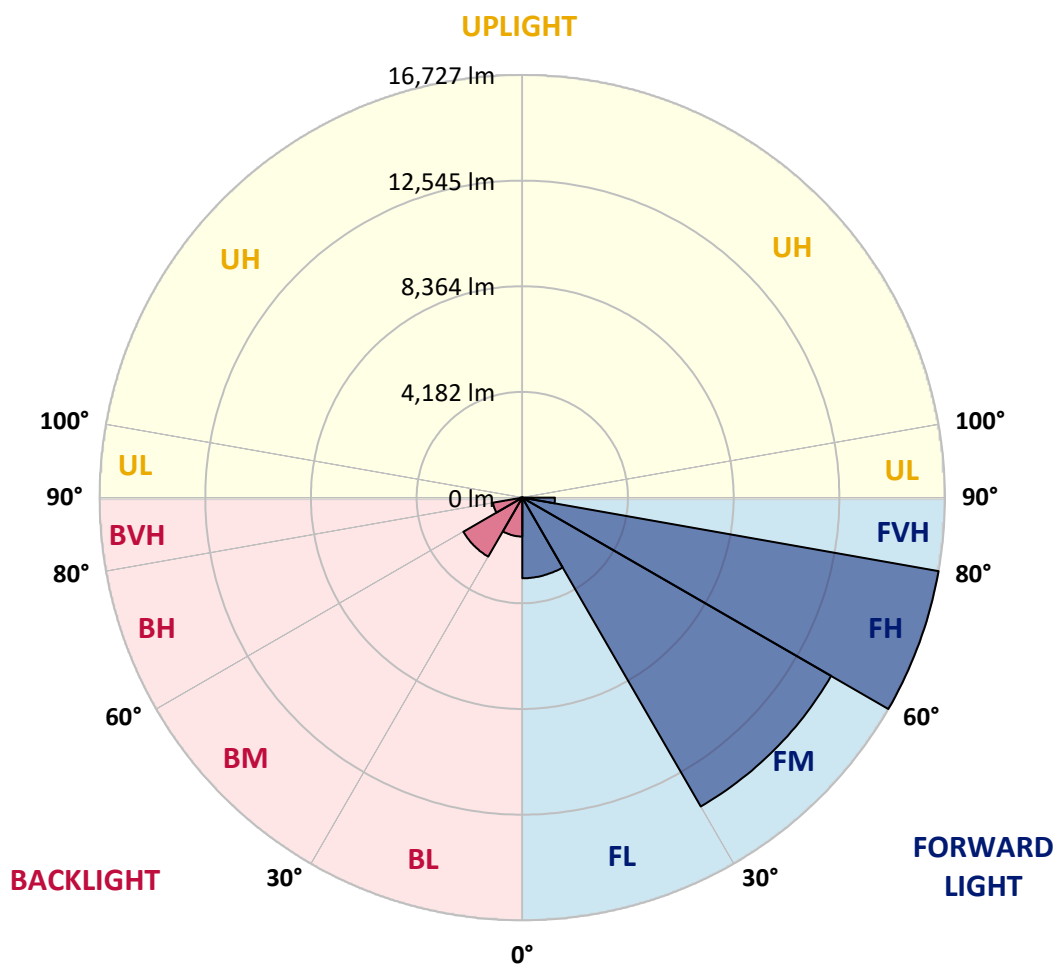
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3190.1	7.8			
FM (30°-60°)	14112.5	34.6			
FH (60°-80°)	16727.0	41.0			G5
FVH (80°-90°)	1292.6	3.2			G5
BL (0°-30°)	1539.4	3.8	B3/2500		
BM (30°-60°)	2693.2	6.6	B3/5000		
BH (60°-80°)	1179.1	2.9	B3/2500		G3/2500
BVH (80°-90°)	74.1	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°	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3
2.5°	7457.3	7494.2	7475.8	7450.4	7434.3	7418.2	7395.1	7328.3	7275.3	7217.7	7127.8
5°	7512.6	7535.7	7519.6	7487.3	7450.4	7434.3	7390.5	7302.9	7217.7	7120.9	6987.2
7.5°	7480.4	7489.6	7471.2	7432.0	7399.7	7369.8	7319.1	7222.3	7118.6	7001.0	6825.9
10°	7365.2	7399.7	7399.7	7367.5	7335.2	7319.1	7268.4	7176.2	7081.7	6948.0	6740.6
12.5°	7270.7	7307.5	7337.5	7328.3	7326.0	7326.0	7286.8	7217.7	7107.1	6980.3	6733.7
15°	7206.1	7249.9	7314.5	7351.3	7374.4	7381.3	7365.2	7305.2	7192.3	7044.8	6761.4
17.5°	7192.3	7245.3	7362.9	7443.5	7503.4	7501.1	7496.5	7413.6	7289.1	7137.0	6795.9
20°	7254.5	7323.7	7487.3	7614.0	7701.6	7685.5	7660.1	7551.8	7406.6	7236.1	6828.2
22.5°	7441.2	7512.6	7692.4	7830.7	7915.9	7915.9	7839.9	7697.0	7542.6	7351.3	6872.0
25°	7708.5	7786.9	7978.2	8118.7	8157.9	8127.9	8051.9	7879.1	7701.6	7517.3	6964.2
27.5°	8035.8	8130.2	8307.7	8425.2	8413.7	8390.7	8312.3	8091.1	7913.6	7745.4	7120.9
30°	8443.7	8512.8	8697.2	8724.8	8683.3	8678.7	8568.1	8346.9	8180.9	8051.9	7344.4
32.5°	8828.5	8890.7	9038.2	9049.7	8976.0	8985.2	8881.5	8678.7	8584.2	8538.1	7720.0
35°	9236.4	9268.7	9395.4	9381.6	9333.2	9326.3	9284.8	9091.2	9121.2	9204.1	8252.4
37.5°	9577.5	9642.0	9713.4	9725.0	9722.7	9745.7	9773.3	9681.2	9854.0	10114.4	8950.6
40°	9890.9	9946.2	10052.2	10089.1	10178.9	10225.0	10319.5	10321.8	10720.5	11149.1	9810.2
42.5°	10102.9	10197.4	10395.6	10462.4	10681.3	10819.6	10960.2	11110.0	11688.4	12239.2	10824.2
45°	10287.3	10411.7	10741.2	10948.6	11245.9	11414.1	11711.4	12024.8	12856.8	13578.1	11854.3
47.5°	10566.1	10676.7	11054.6	11421.1	11870.4	12064.0	12508.8	12976.6	14064.3	14854.8	12840.6
50°	10953.2	11020.1	11404.9	12001.8	12575.6	12824.5	13412.1	14087.4	15354.8	16115.3	13707.1
52.5°	11448.7	11476.4	11782.9	12577.9	13333.8	13642.6	14421.5	15209.6	16484.0	17209.9	14393.9
55°	12034.1	11988.0	12227.6	13188.6	14200.3	14603.6	15440.1	16345.8	17753.8	18094.9	14893.9
57.5°	12612.5	12541.0	12732.3	13930.7	15269.6	15755.8	16730.6	17516.4	18887.6	18922.2	15244.2
60°	13225.5	13172.5	13400.6	14801.8	16580.8	17156.9	18058.0	18730.9	19984.6	19498.3	15299.5
62.5°	13854.6	13769.3	14094.3	15781.2	18058.0	18581.1	19454.5	20021.4	21060.8	19712.6	14767.2
65°	14465.3	14426.1	14928.5	16944.9	19740.3	20334.8	21182.9	21567.7	21922.6	19390.0	13446.7
67.5°	15115.2	15193.5	15995.5	18498.2	21934.2	22680.8	23595.7	23233.9	22169.2	17862.1	11324.3
70°	16106.1	16156.8	17396.6	20533.0	24761.8	25662.8	26105.3	23826.1	20980.1	14960.8	8512.8
72.5°	16532.4	16756.0	18647.9	22669.3	27974.2	28525.0	26948.7	22505.7	17477.3	10162.8	4473.0
73°	16437.9	16705.3	18705.6	22994.2	28225.4	28803.8	26769.0	21825.8	16246.7	8752.5	3834.7
75°	15260.3	15589.9	17956.6	22722.3	27736.9	27391.2	23879.1	18601.9	10978.6	3979.9	1746.8
77.5°	12041.0	12135.5	14227.9	18348.4	21842.0	21201.3	17871.3	11626.2	4484.5	1479.5	990.9
80°	6040.1	6388.1	8019.6	10510.8	14605.9	14396.2	11280.5	5498.5	1868.9	868.8	656.8
82.5°	2906.0	3152.5	3906.1	5125.2	8070.3	7879.1	5586.1	3005.1	1186.8	507.0	387.2
85°	1871.2	2055.6	2486.5	2445.1	3318.5	3168.7	2509.6	2274.5	702.9	265.0	269.6
87.5°	1235.2	1352.7	1622.4	1297.4	1207.6	1092.3	1108.5	1281.3	138.3	101.4	36.9
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°	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3	7169.3
2.5°	7090.9	7061.0	6961.9	6865.1	6772.9	6685.3	6627.7	6551.7	6501.0	6514.8	6535.5
5°	6913.5	6846.6	6671.5	6501.0	6339.7	6148.4	5994.0	5869.5	5775.1	5740.5	5733.6
7.5°	6726.8	6613.9	6362.7	6070.0	5795.8	5558.4	5284.2	5148.2	4989.2	4933.9	4915.5
10°	6613.9	6461.8	6109.2	5701.3	5288.8	4894.7	4597.5	4355.5	4136.6	4095.1	4074.3
12.5°	6581.6	6381.1	5906.4	5381.0	4832.5	4348.6	3908.4	3590.4	3378.4	3330.0	3258.6
15°	6563.2	6314.3	5717.4	5058.4	4362.4	3772.5	3309.3	2938.2	2744.6	2615.6	2617.9
17.5°	6547.1	6238.3	5505.4	4705.8	3956.8	3277.0	2765.4	2431.2	2253.8	2184.7	2177.7
20°	6524.0	6148.4	5261.2	4334.7	3493.6	2825.3	2362.1	2113.2	1993.4	1935.8	1933.5
22.5°	6514.8	6060.8	5021.5	3956.8	3083.4	2477.3	2094.8	1919.6	1843.6	1804.4	1804.4
25°	6537.8	5998.6	4770.3	3597.3	2719.3	2180.0	1910.4	1790.6	1746.8	1726.1	1719.2
27.5°	6609.3	5970.9	4521.4	3237.8	2385.1	1977.3	1786.0	1703.0	1670.8	1654.6	1656.9
30°	6745.2	5968.6	4277.1	2882.9	2136.3	1822.9	1686.9	1629.3	1603.9	1594.7	1592.4
32.5°	6964.2	6019.3	4037.5	2590.2	1926.6	1693.8	1594.7	1553.2	1541.7	1534.8	1532.5
35°	7335.2	6162.2	3800.1	2322.9	1765.2	1578.6	1507.1	1486.4	1470.3	1477.2	1479.5
37.5°	7835.3	6408.8	3574.3	2113.2	1643.1	1493.3	1433.4	1415.0	1405.7	1412.7	1419.6
40°	8505.9	6763.7	3385.3	1945.0	1555.5	1421.9	1368.9	1352.7	1343.5	1355.0	1357.3
42.5°	9245.6	7173.9	3228.6	1813.6	1484.1	1362.0	1311.3	1292.8	1285.9	1292.8	1295.1
45°	10006.1	7650.9	3147.9	1719.2	1424.2	1318.2	1265.2	1244.4	1228.3	1223.7	1230.6
47.5°	10755.1	8065.7	3145.6	1661.5	1375.8	1279.0	1221.4	1198.3	1177.6	1166.1	1163.8
50°	11365.8	8395.3	3200.9	1636.2	1334.3	1235.2	1177.6	1154.6	1126.9	1103.9	1108.5
52.5°	11826.7	8609.6	3226.3	1624.7	1311.3	1189.1	1131.5	1110.8	1078.5	1048.5	1048.5
55°	12123.9	8660.3	3164.1	1613.1	1292.8	1140.7	1078.5	1060.1	1027.8	997.8	997.8
57.5°	12225.3	8503.6	2940.5	1585.5	1274.4	1099.2	1025.5	1009.4	984.0	954.1	949.5
60°	11990.3	7973.5	2548.8	1502.5	1237.5	1055.5	967.9	961.0	951.8	926.4	924.1
62.5°	11084.6	6848.9	2122.4	1394.2	1175.3	1009.4	914.9	926.4	933.3	919.5	917.2
65°	9577.5	5560.7	1813.6	1244.4	1092.3	944.8	857.3	887.2	905.7	905.7	901.1
67.5°	7768.4	4270.2	1527.9	1115.4	988.6	857.3	792.7	815.8	829.6	825.0	836.5
70°	5521.6	2892.1	1244.4	967.9	857.3	758.2	709.8	709.8	700.6	696.0	696.0
72.5°	2677.8	1652.3	1009.4	808.9	730.5	647.6	608.4	592.3	573.8	571.5	560.0
73°	2237.7	1481.8	963.3	778.9	700.6	631.4	587.6	562.3	550.8	541.6	539.3
75°	1362.0	1124.6	804.3	656.8	596.9	543.9	504.7	481.6	470.1	463.2	460.9
77.5°	896.4	838.8	624.5	502.4	456.3	424.0	407.9	384.9	377.9	368.7	368.7
80°	668.3	640.6	447.1	354.9	327.2	299.6	295.0	290.4	271.9	260.4	255.8
82.5°	430.9	456.3	304.2	237.4	207.4	184.4	186.7	193.6	175.1	159.0	154.4
85°	306.5	329.5	184.4	108.3	87.6	76.0	85.3	76.0	78.4	62.2	50.7
87.5°	50.7	87.6	32.3	13.8	6.9	4.6	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)