

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: P648420

Luminaire Tested: **GALN-SA5B-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22530.8 lumens  
Efficiency: N/A  
Efficacy: 110.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

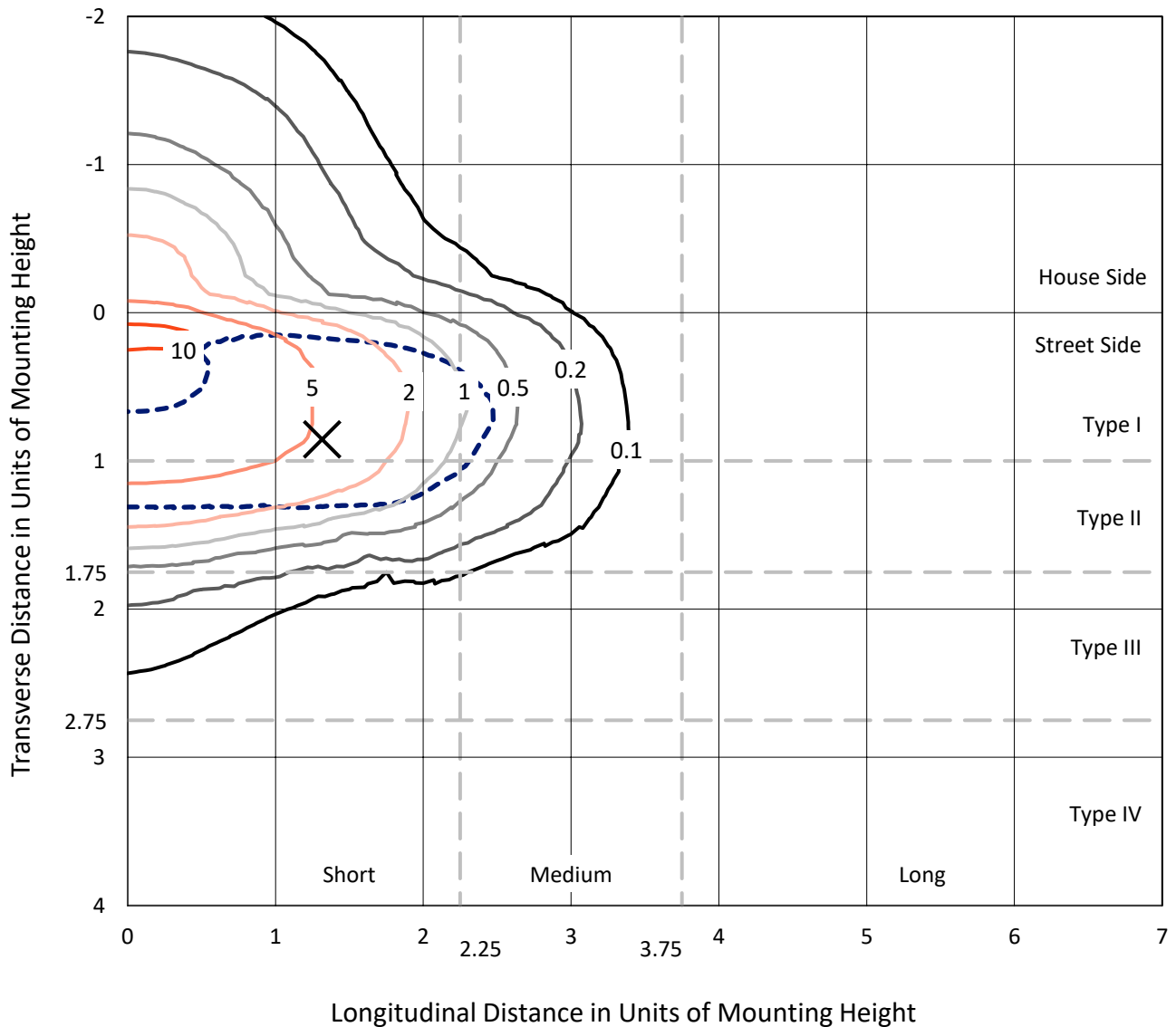
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

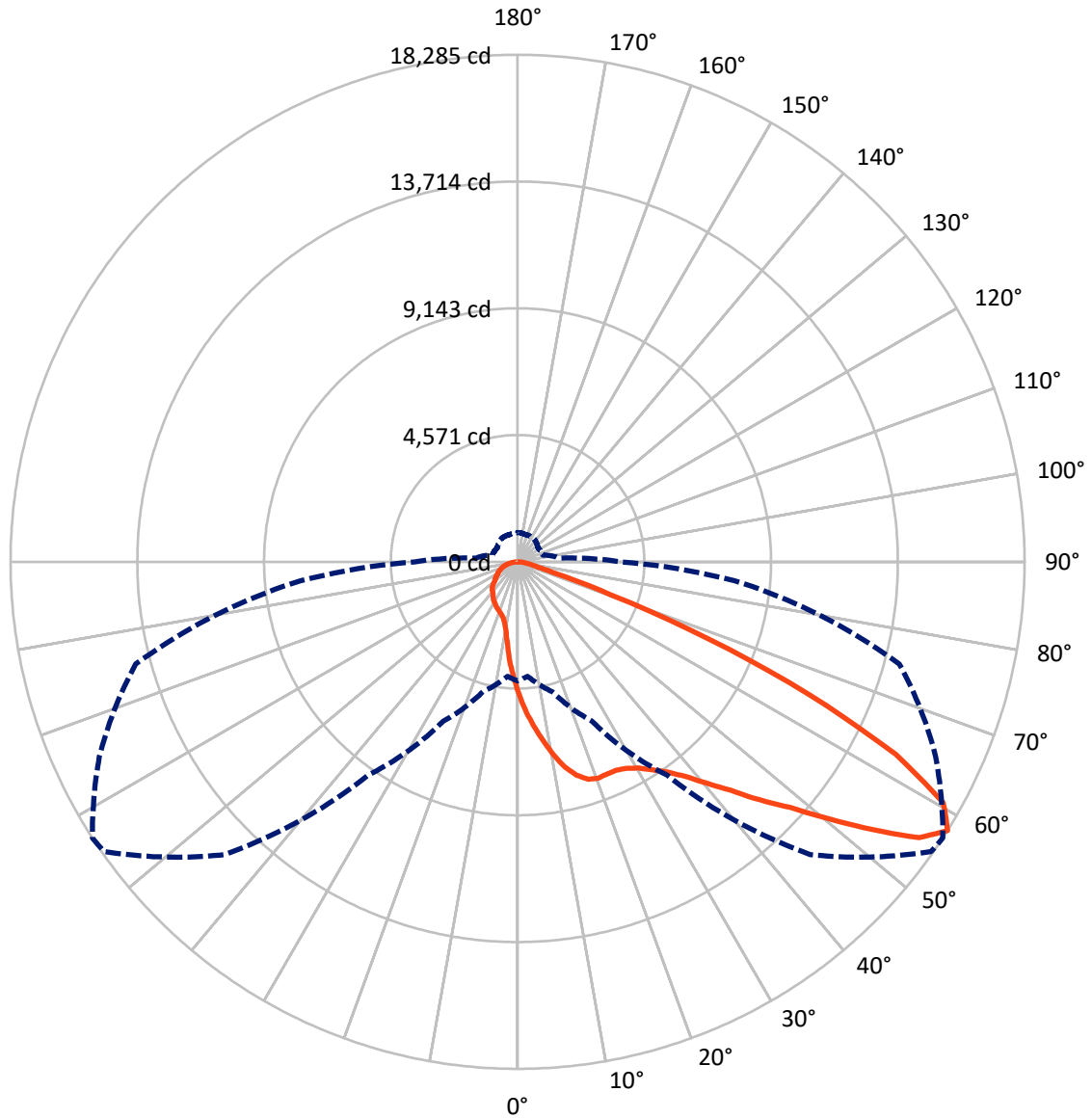
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3426.3	0.0	3426.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	19104.5	0.0	19104.5
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	22530.8	0.0	22530.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	454.9	2.0
10°-20°	1340.7	6.0
20°-30°	2226.3	9.9
30°-40°	3353.4	14.9
40°-50°	5034.8	22.3
50°-60°	5643.4	25.0
60°-70°	3302.8	14.7
70°-80°	976.9	4.3
80°-90°	197.5	0.9
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°	22530.8	100.0
0°-180°	22530.8	100.0

**Coefficient of Utilization**

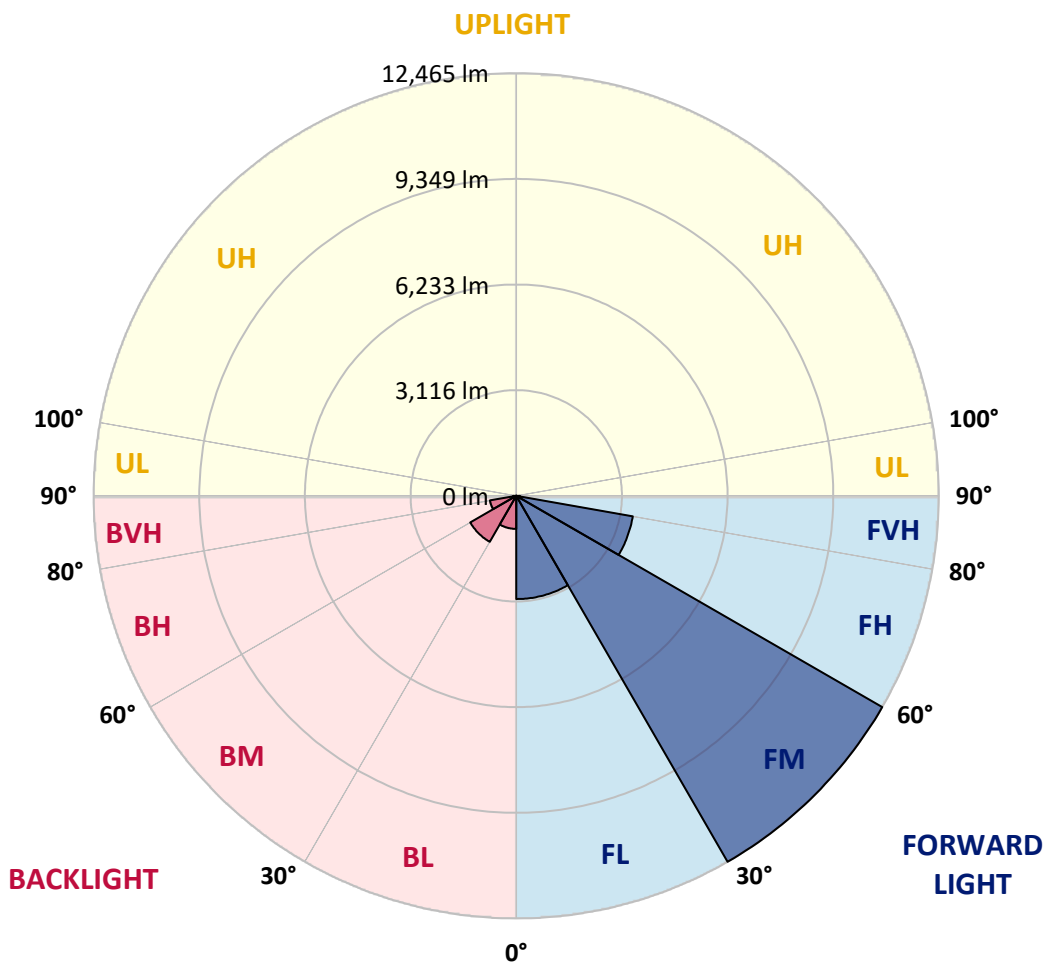


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3045.7	13.5			
FM (30°-60°)	12465.0	55.3			
FH (60°-80°)	3491.4	15.5			G2/5000
FVH (80°-90°)	102.5	0.5			G2/225
BL (0°-30°)	976.3	4.3	B2/1000		
BM (30°-60°)	1566.6	7.0	B2/2500		
BH (60°-80°)	788.4	3.5	B2/1000		G2/1000
BVH (80°-90°)	95.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5
2.5°	5881.7	5817.5	5767.0	5722.6	5664.6	5508.0	5351.3	5348.9	5224.3	5031.9	4834.6
5°	6840.0	6753.6	6764.7	6626.6	6488.5	6261.6	5929.8	5912.5	5647.4	5287.2	4920.9
7.5°	7464.0	7465.3	7430.7	7351.8	7202.6	6944.8	6568.7	6483.6	6114.8	5568.5	5019.6
10°	7432.0	7465.3	7523.2	7591.0	7636.7	7509.7	7166.8	7063.2	6583.5	5908.8	5129.4
12.5°	7005.3	7057.0	7139.7	7309.9	7584.9	7794.5	7677.4	7593.5	7126.1	6247.9	5250.2
15°	6738.8	6769.7	6815.3	6930.0	7226.0	7728.0	8031.4	7987.0	7637.9	6631.5	5385.9
17.5°	6657.5	6688.3	6703.1	6773.3	6984.3	7498.6	8170.7	8249.7	8091.8	6984.3	5522.8
20°	6738.8	6753.6	6753.6	6795.6	6960.9	7364.1	8164.6	8323.7	8464.2	7407.3	5651.1
22.5°	6952.2	6958.4	6949.8	6964.6	7087.9	7401.2	8106.6	8303.9	8765.2	7766.2	5751.0
25°	7298.7	7308.6	7251.9	7217.4	7307.4	7563.9	8138.7	8319.9	9000.7	8109.1	5817.5
27.5°	7692.2	7704.6	7635.4	7555.3	7597.2	7764.9	8264.5	8427.3	9177.1	8447.0	5859.5
30°	8174.4	8179.4	8063.4	7967.3	7940.1	8064.7	8479.0	8630.8	9396.6	8845.3	5922.4
32.5°	8667.7	8704.8	8555.5	8419.8	8374.2	8412.5	8796.0	8942.8	9658.1	9273.3	6023.5
35°	9338.7	9344.9	9166.0	9000.7	8850.2	8899.6	9201.7	9307.8	10019.4	9767.8	6166.6
37.5°	10176.1	10232.8	9986.1	9677.8	9492.9	9421.3	9692.6	9808.6	10526.3	10374.7	6382.4
40°	11106.0	11127.0	10916.1	10723.7	10385.8	10178.5	10366.1	10491.8	11151.6	11098.6	6632.8
42.5°	11690.6	11736.2	11752.3	11732.6	11478.5	11130.7	11202.2	11261.4	11891.7	11778.2	6889.3
45°	11888.0	11955.8	12185.2	12671.1	12698.2	12355.3	12188.9	12245.6	12698.2	12463.9	7134.8
47.5°	11561.1	11677.0	12100.1	13096.6	13842.7	13868.7	13366.7	13242.1	13433.3	13032.5	7312.4
50°	10716.3	10741.0	11388.4	12831.4	14379.2	15315.3	14796.1	14564.3	14131.3	13453.0	7434.4
52.5°	9409.0	9437.3	9980.0	11599.4	14048.7	16326.6	16468.4	16054.1	14840.5	13779.9	7514.6
55°	6984.3	7148.3	7745.2	9310.3	12482.4	16231.7	17798.0	17562.5	15697.7	14038.9	7640.4
57.5°	4294.4	4143.9	4851.9	6334.3	9388.0	14926.8	18208.7	18285.2	16641.2	14255.9	7851.3
60°	1975.7	2005.3	2297.6	3267.1	5722.6	11677.0	17150.5	17633.9	17162.8	14248.5	7904.3
62.5°	1361.6	1334.5	1260.5	1434.4	2609.7	7385.1	14486.5	15305.5	16117.0	13805.8	7693.4
65°	1217.3	1190.2	1047.1	999.0	1198.8	3219.0	10531.3	11564.8	13570.2	12688.4	7168.1
67.5°	1137.2	1100.1	952.1	858.4	855.9	1281.4	6209.7	7454.2	10065.1	10727.4	6211.0
70°	1053.2	1023.6	876.9	773.3	728.9	805.4	2729.3	3572.9	6535.3	7730.4	4838.3
72.5°	969.4	934.8	802.9	691.9	633.9	603.1	1045.9	1360.4	3692.5	4634.8	2966.2
75°	847.3	830.1	717.8	626.6	563.6	487.2	663.5	757.2	1766.1	2128.7	1488.6
77.5°	741.2	722.7	637.6	547.6	502.0	395.9	471.1	514.3	744.9	863.3	672.1
80°	542.7	561.2	537.8	483.4	447.7	310.8	317.0	352.7	442.8	489.6	410.7
82.5°	344.1	378.7	414.4	372.5	339.2	245.4	219.6	233.1	302.2	320.6	182.5
85°	144.3	146.7	240.5	226.9	193.6	145.6	131.9	139.4	161.5	169.0	85.1
87.5°	55.5	54.3	85.1	78.9	60.4	42.0	42.0	46.9	64.1	59.2	27.2
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°	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5	4733.5
2.5°	4749.5	4661.9	4488.0	4272.2	4114.4	3936.8	3780.1	3667.9	3625.9	3606.2	3569.2
5°	4745.8	4573.1	4213.0	3835.6	3532.2	3221.4	2958.7	2788.5	2773.7	2660.2	2649.2
7.5°	4747.0	4483.1	3909.6	3354.6	2892.1	2574.0	2356.8	2300.1	2232.3	2215.0	2223.6
10°	4750.7	4368.4	3584.0	2878.5	2430.9	2222.5	2141.0	2118.9	2121.3	2128.7	2129.9
12.5°	4755.7	4257.4	3246.1	2517.2	2171.9	2085.5	2076.9	2096.6	2117.6	2133.7	2137.4
15°	4761.8	4130.4	2916.8	2226.1	2042.4	2034.9	2063.4	2096.6	2126.2	2149.6	2153.4
17.5°	4754.5	3982.4	2640.5	2047.3	1970.8	2006.6	2053.5	2095.4	2122.6	2144.7	2147.2
20°	4737.2	3817.1	2374.1	1921.5	1926.4	1984.4	2034.9	2074.4	2104.0	2115.1	2123.8
22.5°	4670.6	3619.8	2142.3	1824.1	1873.4	1953.6	2014.0	2037.4	2004.2	1980.7	1986.9
25°	4557.1	3363.2	1926.4	1745.2	1825.3	1910.4	1972.1	1915.4	1888.2	1878.3	1883.3
27.5°	4415.3	3082.0	1763.6	1662.5	1763.6	1862.3	1845.1	1835.2	1822.8	1806.8	1810.5
30°	4262.3	2807.1	1625.5	1598.4	1697.1	1753.8	1761.2	1777.2	1763.6	1739.0	1748.8
32.5°	4120.5	2548.0	1520.7	1544.1	1650.2	1641.6	1697.1	1715.6	1652.7	1570.0	1573.7
35°	3999.6	2307.5	1441.7	1491.1	1570.0	1573.7	1629.2	1565.1	1497.3	1457.8	1460.2
37.5°	3908.3	2120.1	1390.0	1445.4	1467.7	1514.5	1484.9	1451.6	1443.0	1415.8	1417.1
40°	3854.1	1956.0	1356.6	1409.7	1406.0	1438.1	1343.1	1376.4	1388.7	1380.1	1381.3
42.5°	3799.8	1840.1	1322.1	1360.4	1359.1	1296.2	1275.3	1303.6	1335.7	1339.4	1336.9
45°	3756.7	1750.1	1286.3	1285.1	1309.8	1211.1	1205.0	1222.2	1267.8	1290.1	1288.8
47.5°	3708.6	1674.8	1232.1	1197.5	1205.0	1158.1	1148.2	1155.6	1211.1	1246.8	1256.7
50°	3648.2	1599.6	1164.2	1117.4	1086.6	1108.7	1111.2	1112.5	1167.9	1208.6	1217.3
52.5°	3600.1	1542.9	1086.6	1052.0	1015.0	1064.3	1082.9	1085.3	1118.6	1151.9	1158.1
55°	3628.4	1510.8	1010.1	985.4	952.1	1018.7	1054.5	1059.4	1066.8	1091.5	1095.2
57.5°	3713.5	1518.2	948.4	916.3	891.7	964.4	1024.9	1028.5	1023.6	1053.2	1058.2
60°	3739.5	1514.5	902.8	839.9	825.1	906.5	981.7	989.1	987.9	1031.1	1039.7
62.5°	3630.8	1467.7	857.2	775.7	765.9	847.3	921.3	950.9	957.1	1018.7	1029.8
65°	3375.6	1371.4	796.7	707.9	707.9	784.4	863.3	904.1	921.3	1003.9	1016.3
67.5°	3038.9	1258.0	735.1	650.0	647.5	724.0	801.6	843.6	870.7	983.0	990.3
70°	2522.1	1105.0	658.6	587.1	587.1	656.2	726.4	777.0	816.4	943.5	943.5
72.5°	1727.8	918.9	566.1	515.5	516.8	580.9	652.4	709.2	756.0	864.6	867.0
75°	1092.8	717.8	464.9	439.0	444.0	504.4	578.4	637.6	731.3	854.7	858.4
77.5°	580.9	504.4	370.0	363.9	370.0	425.5	508.1	589.5	733.8	741.2	728.9
80°	376.2	357.7	292.3	280.0	282.4	342.9	452.7	559.9	589.5	597.0	569.8
82.5°	204.8	226.9	207.2	194.9	194.9	267.6	386.0	445.2	423.1	351.5	335.4
85°	87.5	106.1	107.3	93.7	90.0	165.3	259.0	243.0	225.7	215.8	213.4
87.5°	24.7	34.5	34.5	25.9	19.7	45.6	51.8	14.8	0.0	1.3	2.5
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)