

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: P454196

Luminaire Tested: **GALN-SA5B-740-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454196  
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-740-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28775 lumens  
Efficiency: N/A  
Efficacy: 141.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

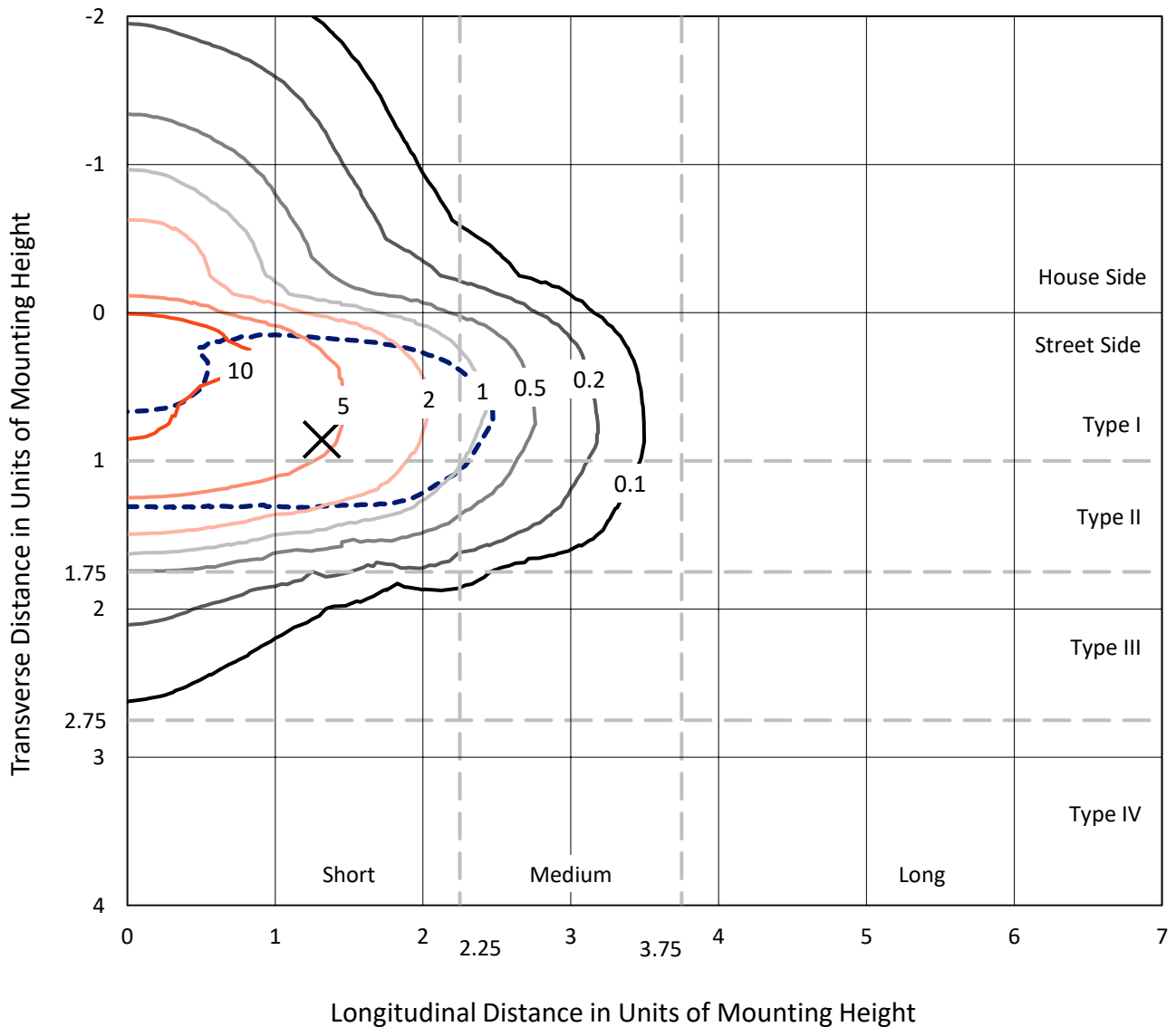
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

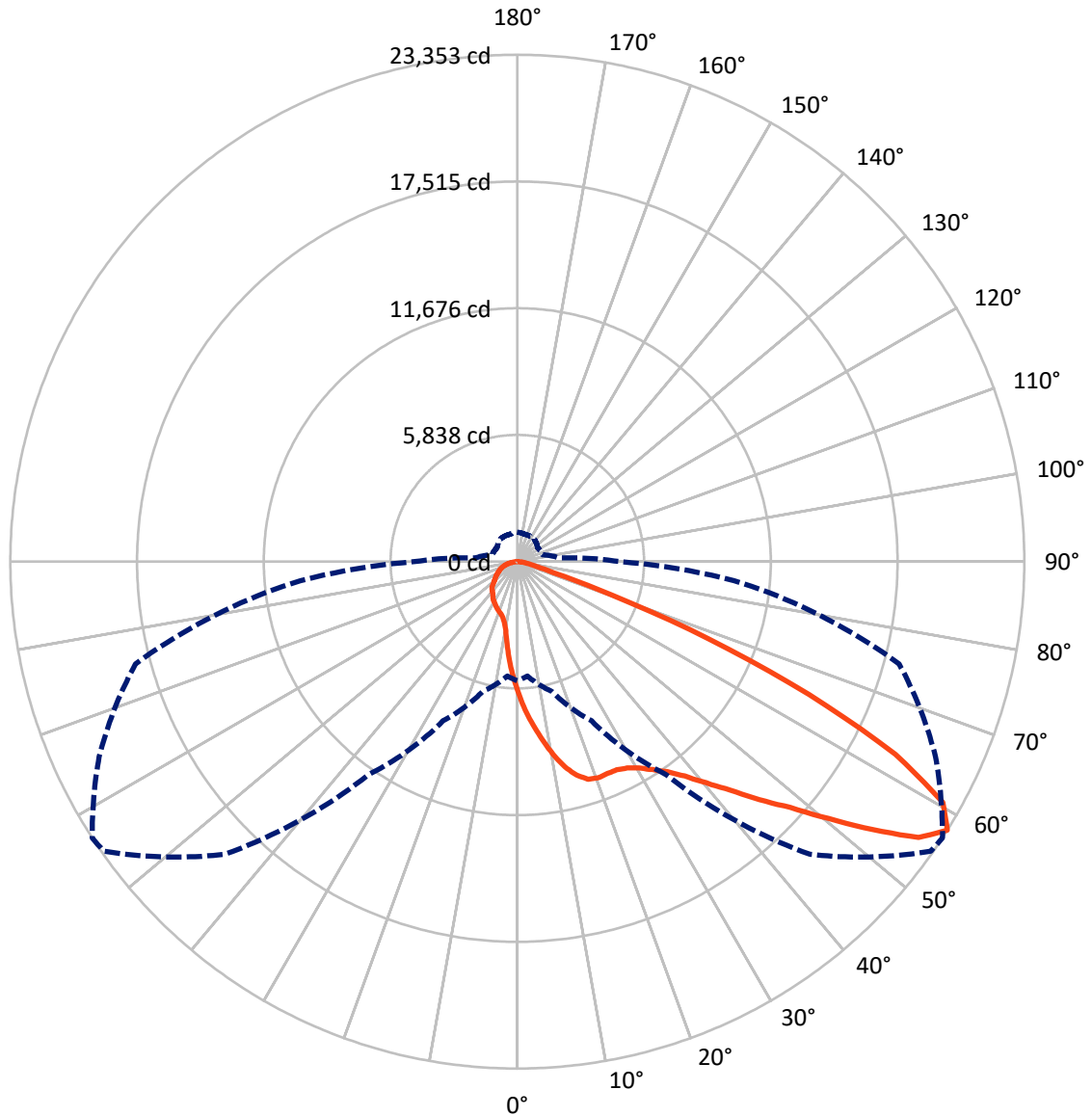
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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	4375.9	0.0	4375.9
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	24399.1	0.0	24399.1
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	28775.0	0.0	28775.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	581.0	2.0
10°-20°	1712.3	6.0
20°-30°	2843.3	9.9
30°-40°	4282.8	14.9
40°-50°	6430.2	22.3
50°-60°	7207.4	25.0
60°-70°	4218.1	14.7
70°-80°	1247.7	4.3
80°-90°	252.2	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°	28775.0	100.0
0°-180°	28775.0	100.0

**Coefficient of Utilization**



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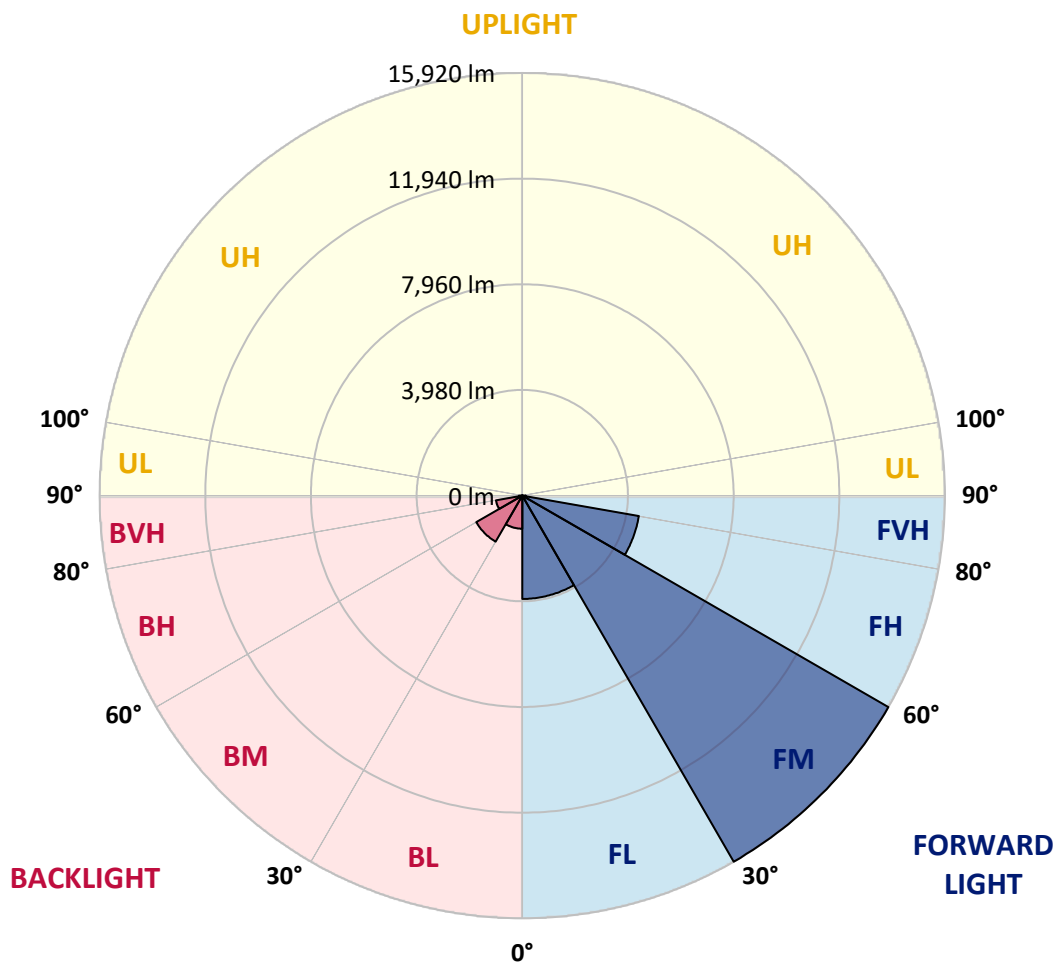
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3889.7	13.5			
FM	(30°-60°)	15919.6	55.3			
FH	(60°-80°)	4459.0	15.5			G2/5000
FVH	(80°-90°)	130.8	0.5			G2/225
BL	(0°-30°)	1246.8	4.3	B3/2500		
BM	(30°-60°)	2000.8	7.0	B2/2500		
BH	(60°-80°)	1006.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	121.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3
2.5°	7511.7	7429.8	7365.2	7308.5	7234.5	7034.5	6834.4	6831.3	6672.2	6426.5	6174.5
5°	8735.6	8625.3	8639.5	8463.1	8286.7	7996.9	7573.2	7551.1	7212.5	6752.5	6284.7
7.5°	9532.6	9534.2	9490.1	9389.3	9198.7	8869.5	8389.1	8280.4	7809.4	7111.7	6410.7
10°	9491.7	9534.2	9608.2	9694.8	9753.1	9590.9	9153.0	9020.7	8408.0	7546.4	6550.9
12.5°	8946.7	9012.8	9118.4	9335.7	9687.0	9954.7	9805.1	9698.0	9101.0	7979.5	6705.3
15°	8606.4	8645.8	8704.1	8850.6	9228.6	9869.7	10257.2	10200.5	9754.7	8469.4	6878.5
17.5°	8502.5	8541.9	8560.8	8650.5	8919.9	9576.7	10435.1	10536.0	10334.3	8919.9	7053.4
20°	8606.4	8625.3	8625.3	8678.9	8890.0	9405.0	10427.3	10630.5	10810.0	9460.2	7217.2
22.5°	8878.9	8886.8	8875.8	8894.7	9052.2	9452.3	10353.2	10605.3	11194.4	9918.5	7344.8
25°	9321.5	9334.1	9261.7	9217.6	9332.6	9660.2	10394.2	10625.7	11495.2	10356.4	7429.8
27.5°	9824.0	9839.8	9751.5	9649.2	9702.7	9916.9	10554.9	10762.8	11720.4	10788.0	7483.4
30°	10439.9	10446.2	10298.1	10175.3	10140.6	10299.7	10828.9	11022.7	12000.8	11296.7	7563.7
32.5°	11069.9	11117.2	10926.6	10753.3	10695.0	10743.9	11233.7	11421.2	12334.7	11843.3	7692.9
35°	11926.8	11934.7	11706.3	11495.2	11303.0	11366.0	11751.9	11887.4	12796.2	12474.9	7875.6
37.5°	12996.3	13068.7	12753.7	12359.9	12123.7	12032.3	12378.8	12526.9	13443.6	13249.9	8151.2
40°	14183.9	14210.7	13941.4	13695.6	13264.1	12999.4	13238.9	13399.5	14242.2	14174.5	8471.0
42.5°	14930.5	14988.8	15009.3	14984.1	14659.6	14215.4	14306.8	14382.4	15187.3	15042.4	8798.6
45°	15182.6	15269.2	15562.2	16182.7	16217.4	15779.5	15566.9	15639.3	16217.4	15918.1	9112.1
47.5°	14765.1	14913.2	15453.5	16726.2	17679.1	17712.2	17071.1	16912.0	17156.2	16644.3	9338.9
50°	13686.2	13717.7	14544.6	16387.5	18364.3	19559.8	18896.7	18600.6	18047.7	17181.4	9494.8
52.5°	12016.6	12052.8	12745.8	14814.0	17942.2	20851.4	21032.5	20503.3	18953.4	17598.8	9597.2
55°	8919.9	9129.4	9891.7	11890.6	15941.8	20730.1	22730.5	22429.7	20048.1	17929.6	9757.8
57.5°	5484.6	5292.4	6196.5	8089.8	11989.8	19063.6	23255.0	23352.7	21253.1	18206.8	10027.2
60°	2523.3	2561.1	2934.4	4172.5	7308.5	14913.2	21903.6	22521.0	21919.3	18197.3	10094.9
62.5°	1738.9	1704.3	1609.8	1831.9	3332.9	9431.8	18501.3	19547.2	20583.6	17631.9	9825.6
65°	1554.6	1520.0	1337.3	1275.8	1531.0	4111.1	13449.9	14769.9	17331.0	16204.8	9154.6
67.5°	1452.3	1405.0	1216.0	1096.3	1093.1	1636.5	7930.7	9520.0	12854.5	13700.4	7932.3
70°	1345.1	1307.3	1119.9	987.6	930.9	1028.6	3485.7	4563.1	8346.5	9872.8	6179.2
72.5°	1238.0	1193.9	1025.4	883.6	809.6	770.2	1335.7	1737.4	4715.9	5919.3	3788.2
75°	1082.1	1060.1	916.7	800.2	719.8	622.2	847.4	967.1	2255.6	2718.7	1901.2
77.5°	946.6	923.0	814.3	699.4	641.1	505.6	601.7	656.8	951.4	1102.6	858.4
80°	693.1	716.7	686.8	617.4	571.8	396.9	404.8	450.5	565.5	625.3	524.5
82.5°	439.5	483.6	529.2	475.7	433.2	313.4	280.4	297.7	385.9	409.5	233.1
85°	184.3	187.4	307.1	289.8	247.3	185.9	168.5	178.0	206.3	215.8	108.7
87.5°	70.9	69.3	108.7	100.8	77.2	53.6	53.6	59.9	81.9	75.6	34.7
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°	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3	6045.3
2.5°	6065.8	5953.9	5731.8	5456.2	5254.6	5027.8	4827.7	4684.4	4630.8	4605.6	4558.4
5°	6061.0	5840.5	5380.6	4898.6	4511.1	4114.2	3778.7	3561.3	3542.4	3397.5	3383.4
7.5°	6062.6	5725.5	4993.1	4284.3	3693.6	3287.3	3010.0	2937.6	2851.0	2828.9	2839.9
10°	6067.3	5579.1	4577.3	3676.3	3104.6	2838.4	2734.4	2706.1	2709.2	2718.7	2720.2
12.5°	6073.7	5437.3	4145.7	3214.8	2773.8	2663.5	2652.5	2677.7	2704.5	2725.0	2729.7
15°	6081.5	5275.1	3725.2	2843.1	2608.4	2598.9	2635.2	2677.7	2715.5	2745.4	2750.2
17.5°	6072.1	5086.1	3372.3	2614.7	2517.0	2562.7	2622.6	2676.1	2710.8	2739.1	2742.3
20°	6050.0	4875.0	3032.1	2454.0	2460.3	2534.4	2598.9	2649.3	2687.1	2701.3	2712.4
22.5°	5965.0	4623.0	2736.0	2329.6	2392.6	2495.0	2572.2	2602.1	2559.6	2529.6	2537.5
25°	5820.1	4295.3	2460.3	2228.8	2331.2	2439.9	2518.6	2446.2	2411.5	2398.9	2405.2
27.5°	5638.9	3936.2	2252.4	2123.3	2252.4	2378.4	2356.4	2343.8	2328.0	2307.5	2312.3
30°	5443.6	3585.0	2076.0	2041.4	2167.4	2239.8	2249.3	2269.7	2252.4	2220.9	2233.5
32.5°	5262.5	3254.2	1942.1	1972.0	2107.5	2096.5	2167.4	2191.0	2110.7	2005.1	2009.8
35°	5108.1	2947.0	1841.3	1904.3	2005.1	2009.8	2080.7	1998.8	1912.2	1861.8	1864.9
37.5°	4991.5	2707.6	1775.2	1846.0	1874.4	1934.2	1896.4	1853.9	1842.9	1808.2	1809.8
40°	4922.2	2498.1	1732.6	1800.4	1795.6	1836.6	1715.3	1757.8	1773.6	1762.6	1764.1
42.5°	4852.9	2350.1	1688.5	1737.4	1735.8	1655.4	1628.7	1664.9	1705.9	1710.6	1707.4
45°	4797.8	2235.1	1642.8	1641.3	1672.8	1546.8	1538.9	1560.9	1619.2	1647.6	1646.0
47.5°	4736.4	2139.0	1573.5	1529.4	1538.9	1479.0	1466.4	1475.9	1546.8	1592.4	1605.0
50°	4659.2	2042.9	1486.9	1427.1	1387.7	1416.0	1419.2	1420.8	1491.6	1543.6	1554.6
52.5°	4597.8	1970.5	1387.7	1343.6	1296.3	1359.3	1383.0	1386.1	1428.6	1471.2	1479.0
55°	4634.0	1929.5	1290.0	1258.5	1216.0	1301.0	1346.7	1353.0	1362.5	1394.0	1398.7
57.5°	4742.7	1939.0	1211.3	1170.3	1138.8	1231.7	1308.9	1313.6	1307.3	1345.1	1351.5
60°	4775.8	1934.2	1153.0	1072.7	1053.8	1157.7	1253.8	1263.2	1261.7	1316.8	1327.8
62.5°	4637.1	1874.4	1094.7	990.7	978.1	1082.1	1176.6	1214.4	1222.3	1301.0	1315.2
65°	4311.1	1751.5	1017.5	904.1	904.1	1001.8	1102.6	1154.6	1176.6	1282.1	1297.9
67.5°	3881.1	1606.6	938.8	830.1	826.9	924.6	1023.8	1077.4	1112.0	1255.4	1264.8
70°	3221.1	1411.3	841.1	749.8	749.8	838.0	927.7	992.3	1042.7	1205.0	1205.0
72.5°	2206.7	1173.5	723.0	658.4	660.0	741.9	833.2	905.7	965.5	1104.2	1107.3
75°	1395.6	916.7	593.8	560.7	567.0	644.2	738.7	814.3	934.0	1091.6	1096.3
77.5°	741.9	644.2	472.5	464.7	472.5	543.4	648.9	752.9	937.2	946.6	930.9
80°	480.4	456.8	373.3	357.6	360.7	437.9	578.1	715.1	752.9	762.4	727.7
82.5°	261.5	289.8	264.6	248.9	248.9	341.8	493.0	568.6	540.3	448.9	428.4
85°	111.8	135.5	137.0	119.7	115.0	211.1	330.8	310.3	288.2	275.6	272.5
87.5°	31.5	44.1	44.1	33.1	25.2	58.3	66.2	18.9	0.0	1.6	3.2
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)