

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: P453442

Luminaire Tested: **GALN-SA4C-727-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453442  
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-SA4C-727-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23487 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

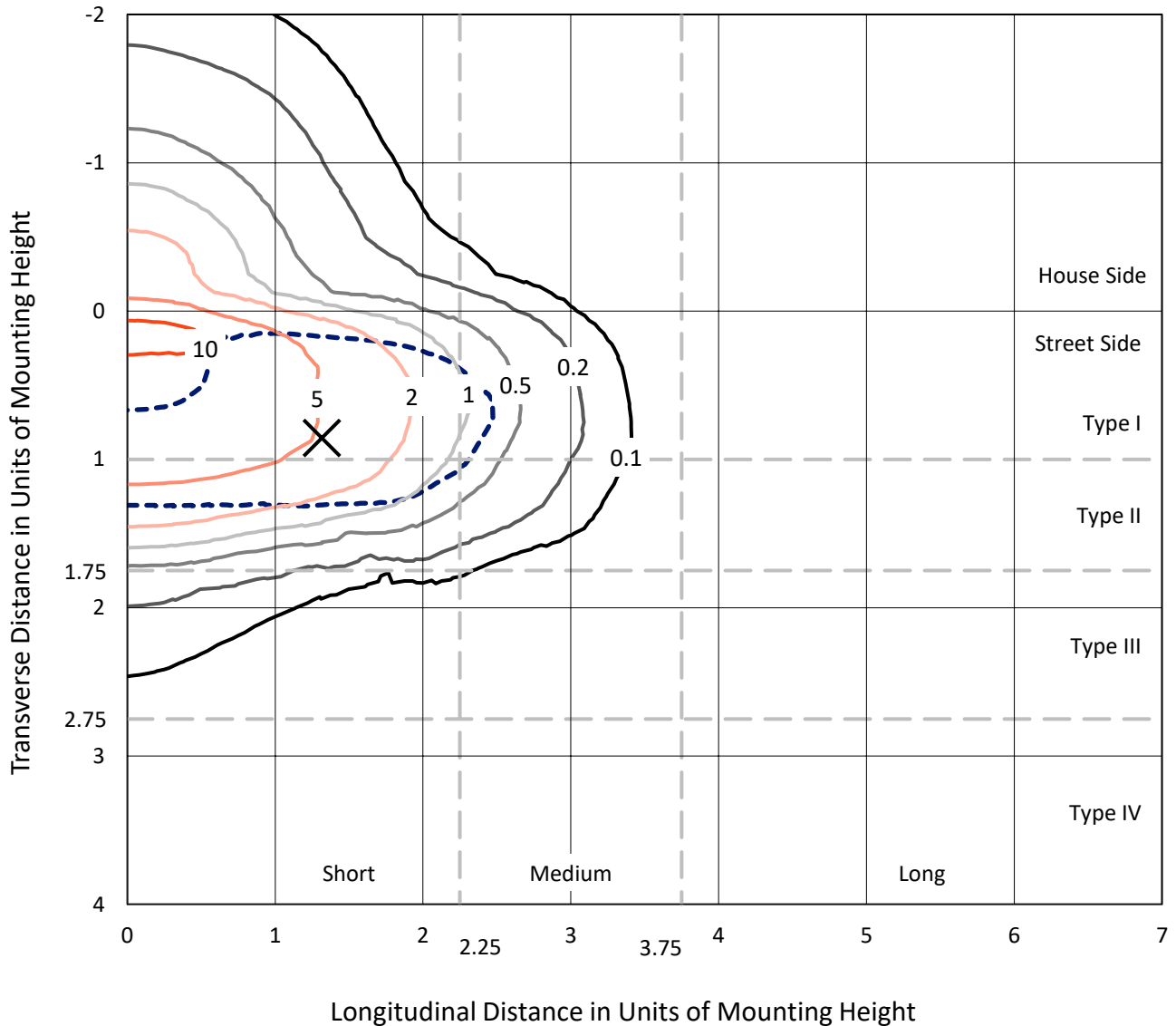
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453442  
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### Iso-Footcandle Lines of Horizontal Illumination

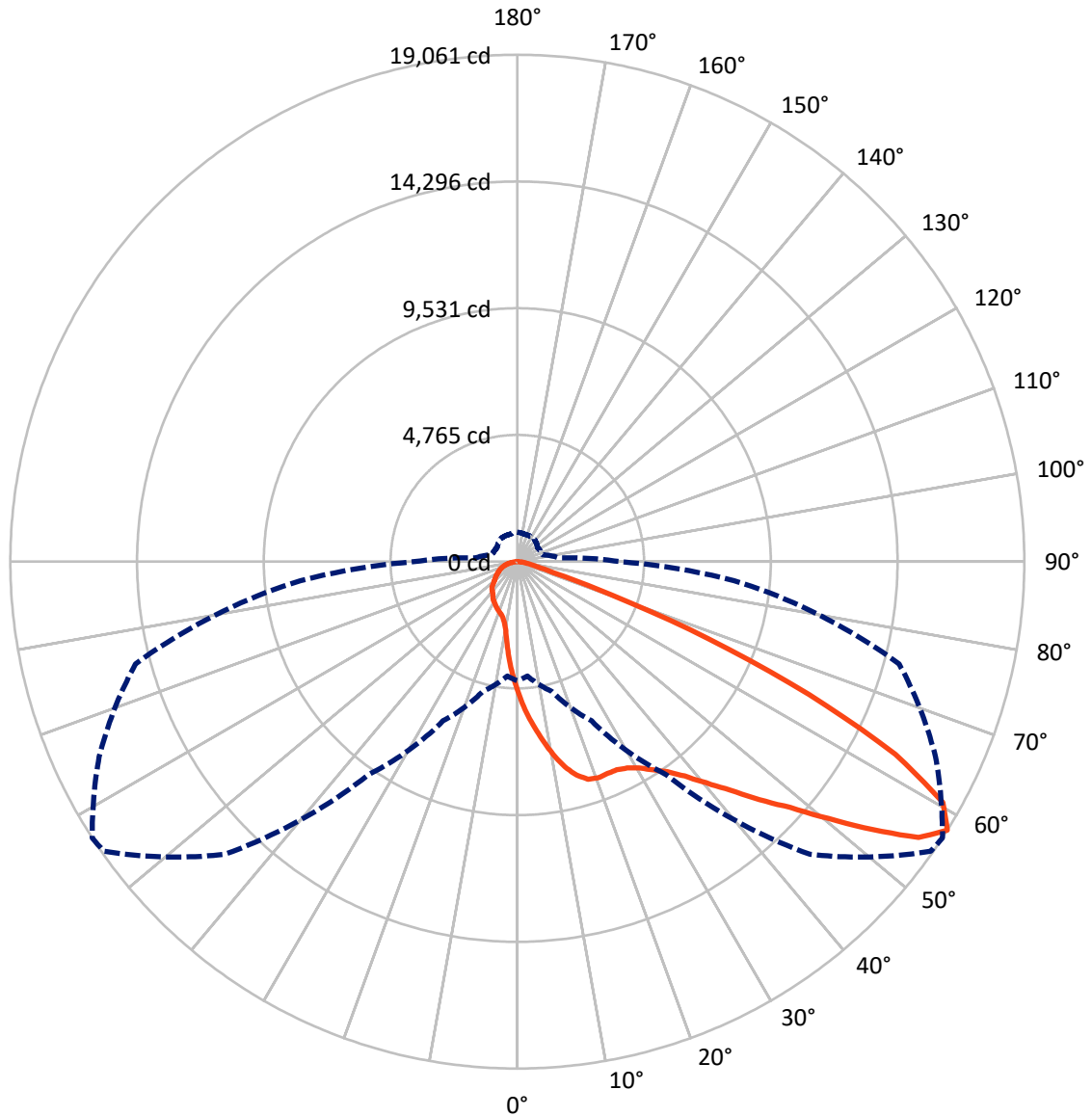
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc  
 Type II - Short - N/A

REPORT NUMBER: P453442  
CATALOG NUMBER: GALN-SA4C-727-U-AFL

### Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GALN-SA4C-727-U-AFL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3571.7	0.0	3571.7
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	19915.3	0.0	19915.3
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	23487.0	0.0	23487.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.2	2.0
10°-20°	1397.6	6.0
20°-30°	2320.8	9.9
30°-40°	3495.7	14.9
40°-50°	5248.5	22.3
50°-60°	5882.9	25.0
60°-70°	3443.0	14.7
70°-80°	1018.4	4.3
80°-90°	205.9	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°	23487.0	100.0
0°-180°	23487.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P453442

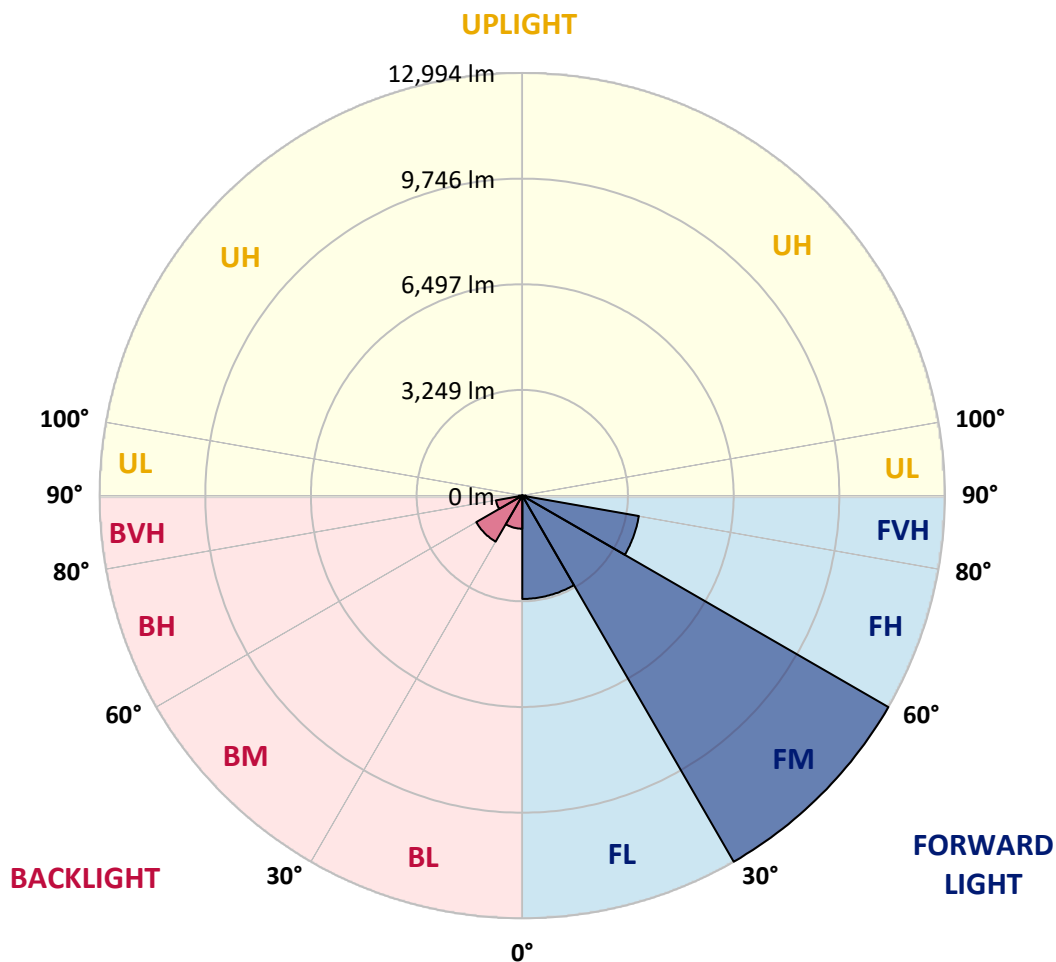
CATALOG NUMBER: GALN-SA4C-727-U-AFL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3174.9	13.5			
FM	(30°-60°)	12994.0	55.3			
FH	(60°-80°)	3639.5	15.5			G2/5000
FVH	(80°-90°)	106.8	0.5			G2/225
BL	(0°-30°)	1017.7	4.3	B3/2500		
BM	(30°-60°)	1633.1	7.0	B2/2500		
BH	(60°-80°)	821.8	3.5	B2/1000		G2/1000
BVH	(80°-90°)	99.0	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P453442

CATALOG NUMBER: GALN-SA4C-727-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3
2.5°	6131.3	6064.4	6011.7	5965.4	5905.0	5741.7	5578.5	5575.9	5446.0	5245.5	5039.8
5°	7130.3	7040.3	7051.8	6907.8	6763.8	6527.3	6181.4	6163.4	5887.0	5511.6	5129.8
7.5°	7780.8	7782.1	7746.1	7663.8	7508.2	7239.5	6847.4	6758.7	6374.3	5804.7	5232.6
10°	7747.4	7782.1	7842.5	7913.2	7960.8	7828.4	7471.0	7363.0	6862.8	6159.6	5347.0
12.5°	7302.5	7356.5	7442.7	7620.1	7906.8	8125.3	8003.2	7915.8	7428.5	6513.1	5473.0
15°	7024.8	7057.0	7104.5	7224.1	7532.7	8055.9	8372.2	8325.9	7962.1	6913.0	5614.5
17.5°	6940.0	6972.1	6987.5	7060.8	7280.7	7816.8	8517.5	8599.8	8435.2	7280.7	5757.2
20°	7024.8	7040.3	7040.3	7084.0	7256.2	7676.7	8511.0	8676.9	8823.5	7721.7	5890.9
22.5°	7247.2	7253.7	7244.7	7260.1	7388.7	7715.2	8450.6	8656.3	9137.2	8095.8	5995.0
25°	7608.5	7618.8	7559.7	7523.7	7617.5	7884.9	8484.0	8673.0	9382.7	8453.2	6064.4
27.5°	8018.6	8031.5	7959.5	7875.9	7919.6	8094.5	8615.2	8784.9	9566.6	8805.5	6108.2
30°	8521.3	8526.5	8405.6	8305.3	8277.1	8406.9	8838.9	8997.0	9795.4	9220.7	6173.7
32.5°	9035.6	9074.2	8918.6	8777.2	8729.6	8769.5	9169.3	9322.3	10068.0	9666.9	6279.1
35°	9735.0	9741.4	9555.0	9382.7	9225.9	9277.3	9592.3	9702.9	10444.7	10182.4	6428.3
37.5°	10608.0	10667.1	10410.0	10088.5	9895.7	9821.1	10104.0	10224.8	10973.1	10814.9	6653.3
40°	11577.3	11599.2	11379.3	11178.8	10826.5	10610.5	10805.9	10937.1	11624.9	11569.6	6914.3
42.5°	12186.7	12234.3	12251.0	12230.5	11965.6	11603.1	11677.6	11739.3	12396.3	12278.0	7181.7
45°	12392.4	12463.2	12702.3	13208.8	13237.1	12879.7	12706.1	12765.3	13237.1	12992.8	7437.5
47.5°	12051.7	12172.6	12613.6	13652.4	14430.2	14457.2	13933.9	13804.1	14003.4	13585.5	7622.7
50°	11171.1	11196.8	11871.8	13376.0	14989.5	15965.3	15424.0	15182.3	14731.1	14023.9	7749.9
52.5°	9808.3	9837.8	10403.5	12091.6	14644.9	17019.5	17167.4	16735.4	15470.3	14364.6	7833.5
55°	7280.7	7451.7	8073.9	9705.4	13012.1	16920.5	18553.3	18307.7	16363.8	14634.6	7964.6
57.5°	4476.7	4319.8	5057.8	6603.1	9786.4	15560.3	18981.4	19061.1	17347.4	14860.9	8184.5
60°	2059.6	2090.5	2395.2	3405.7	5965.4	12172.6	17878.3	18382.3	17891.2	14853.2	8239.8
62.5°	1419.4	1391.1	1313.9	1495.2	2720.4	7698.5	15101.3	15955.0	16801.0	14391.6	8019.9
65°	1268.9	1240.7	1091.5	1041.4	1249.7	3355.6	10978.2	12055.6	14146.1	13226.8	7472.2
67.5°	1185.4	1146.8	992.5	894.8	892.2	1335.8	6473.3	7770.5	10492.2	11182.6	6474.6
70°	1098.0	1067.1	914.1	806.1	759.8	839.5	2845.2	3724.5	6812.7	8058.5	5043.6
72.5°	1010.5	974.5	837.0	721.3	660.8	628.7	1090.2	1418.1	3849.3	4831.5	3092.0
75°	883.2	865.2	748.3	653.1	587.5	507.8	691.7	789.4	1841.1	2219.0	1551.8
77.5°	772.7	753.4	664.7	570.8	523.3	412.7	491.1	536.1	776.5	900.0	700.7
80°	565.7	585.0	560.5	504.0	466.7	324.0	330.4	367.7	461.6	510.4	428.1
82.5°	358.7	394.7	432.0	388.3	353.6	255.8	228.8	243.0	315.0	334.3	190.3
85°	150.4	153.0	250.7	236.6	201.8	151.7	137.6	145.3	168.4	176.1	88.7
87.5°	57.9	56.6	88.7	82.3	63.0	43.7	43.7	48.9	66.9	61.7	28.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P453442

CATALOG NUMBER: GALN-SA4C-727-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3	4934.3
2.5°	4951.1	4859.8	4678.5	4453.5	4289.0	4103.8	3940.5	3823.5	3779.8	3759.3	3720.7
5°	4947.2	4767.2	4391.8	3998.4	3682.1	3358.1	3084.3	2906.9	2891.4	2773.2	2761.6
7.5°	4948.5	4673.4	4075.5	3497.0	3014.9	2683.2	2456.9	2397.7	2327.0	2309.0	2318.0
10°	4952.3	4553.8	3736.1	3000.7	2534.0	2316.8	2231.9	2208.8	2211.3	2219.0	2220.3
12.5°	4957.5	4438.1	3383.8	2624.0	2264.0	2174.0	2165.0	2185.6	2207.5	2224.2	2228.0
15°	4963.9	4305.7	3040.6	2320.6	2129.0	2121.3	2150.9	2185.6	2216.5	2240.9	2244.8
17.5°	4956.2	4151.4	2752.6	2134.2	2054.5	2091.8	2140.6	2184.3	2212.6	2235.8	2238.3
20°	4938.2	3979.1	2474.9	2003.1	2008.2	2068.6	2121.3	2162.5	2193.3	2204.9	2213.9
22.5°	4868.8	3773.4	2233.2	1901.5	1952.9	2036.5	2099.5	2123.9	2089.2	2064.8	2071.2
25°	4750.5	3506.0	2008.2	1819.2	1902.8	1991.5	2055.8	1996.6	1968.3	1958.1	1963.2
27.5°	4602.7	3212.9	1838.5	1733.1	1838.5	1941.3	1923.3	1913.1	1900.2	1883.5	1887.3
30°	4443.2	2926.2	1694.5	1666.2	1769.1	1828.2	1835.9	1852.6	1838.5	1812.8	1823.1
32.5°	4295.4	2656.2	1585.2	1609.6	1720.2	1711.2	1769.1	1788.3	1722.8	1636.6	1640.5
35°	4169.4	2405.5	1502.9	1554.4	1636.6	1640.5	1698.4	1631.5	1560.8	1519.6	1522.2
37.5°	4074.2	2210.0	1448.9	1506.8	1529.9	1578.8	1547.9	1513.2	1504.2	1475.9	1477.2
40°	4017.7	2039.1	1414.2	1469.5	1465.6	1499.1	1400.1	1434.8	1447.6	1438.6	1439.9
42.5°	3961.1	1918.2	1378.2	1418.1	1416.8	1351.2	1329.4	1358.9	1392.4	1396.2	1393.7
45°	3916.1	1824.3	1340.9	1339.7	1365.4	1262.5	1256.1	1274.1	1321.7	1344.8	1343.5
47.5°	3866.0	1745.9	1284.4	1248.4	1256.1	1207.2	1196.9	1204.7	1262.5	1299.8	1310.1
50°	3803.0	1667.5	1213.7	1164.8	1132.7	1155.8	1158.4	1159.7	1217.5	1259.9	1268.9
52.5°	3752.8	1608.4	1132.7	1096.7	1058.1	1109.5	1128.8	1131.4	1166.1	1200.8	1207.2
55°	3782.4	1574.9	1053.0	1027.2	992.5	1062.0	1099.2	1104.4	1112.1	1137.8	1141.7
57.5°	3871.1	1582.6	988.7	955.2	929.5	1005.4	1068.4	1072.2	1067.1	1098.0	1103.1
60°	3898.1	1578.8	941.1	875.5	860.1	945.0	1023.4	1031.1	1029.8	1074.8	1083.8
62.5°	3785.0	1529.9	893.5	808.7	798.4	883.2	960.4	991.2	997.7	1062.0	1073.5
65°	3518.8	1429.7	830.5	738.0	738.0	817.7	900.0	942.4	960.4	1046.5	1059.4
67.5°	3167.9	1311.4	766.3	677.5	675.0	754.7	835.7	879.4	907.7	1024.7	1032.4
70°	2629.2	1151.9	686.5	612.0	612.0	684.0	757.3	810.0	851.1	983.5	983.5
72.5°	1801.2	957.8	590.1	537.4	538.7	605.5	680.1	739.3	788.1	901.2	903.8
75°	1139.1	748.3	484.7	457.7	462.8	525.8	603.0	664.7	762.4	891.0	894.8
77.5°	605.5	525.8	385.7	379.3	385.7	443.6	529.7	614.5	765.0	772.7	759.8
80°	392.1	372.8	304.7	291.8	294.4	357.4	471.8	583.7	614.5	622.3	594.0
82.5°	213.4	236.6	216.0	203.1	203.1	279.0	402.4	464.1	441.0	366.4	349.7
85°	91.3	110.6	111.9	97.7	93.9	172.3	270.0	253.3	235.3	225.0	222.4
87.5°	25.7	36.0	36.0	27.0	20.6	47.6	54.0	15.4	0.0	1.3	2.6
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)