

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: P647925

Luminaire Tested: **GALN-SA5A-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647925  
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-SA5A-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18107.6 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

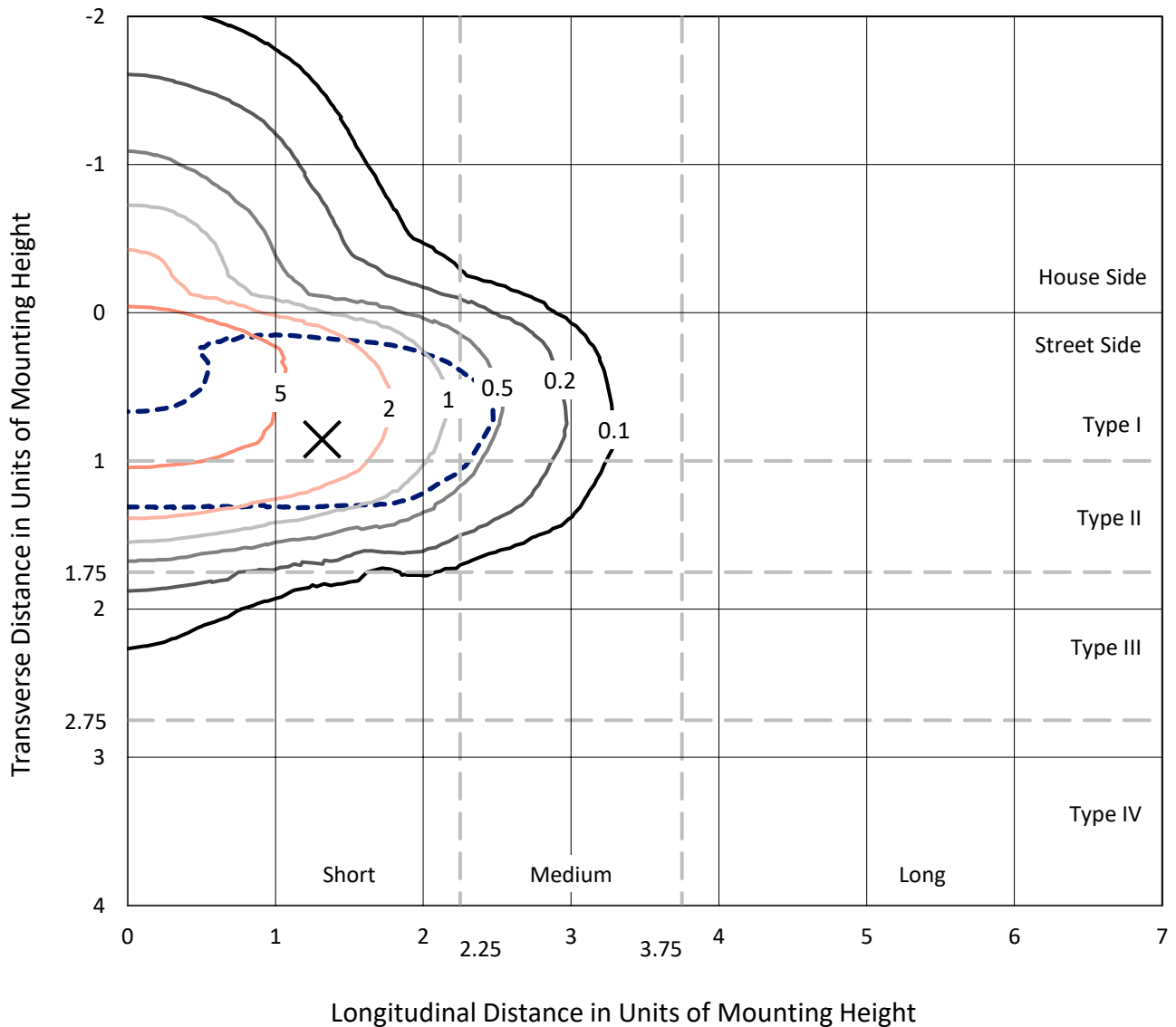
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647925  
 CATALOG NUMBER: GALN-SA5A-835-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

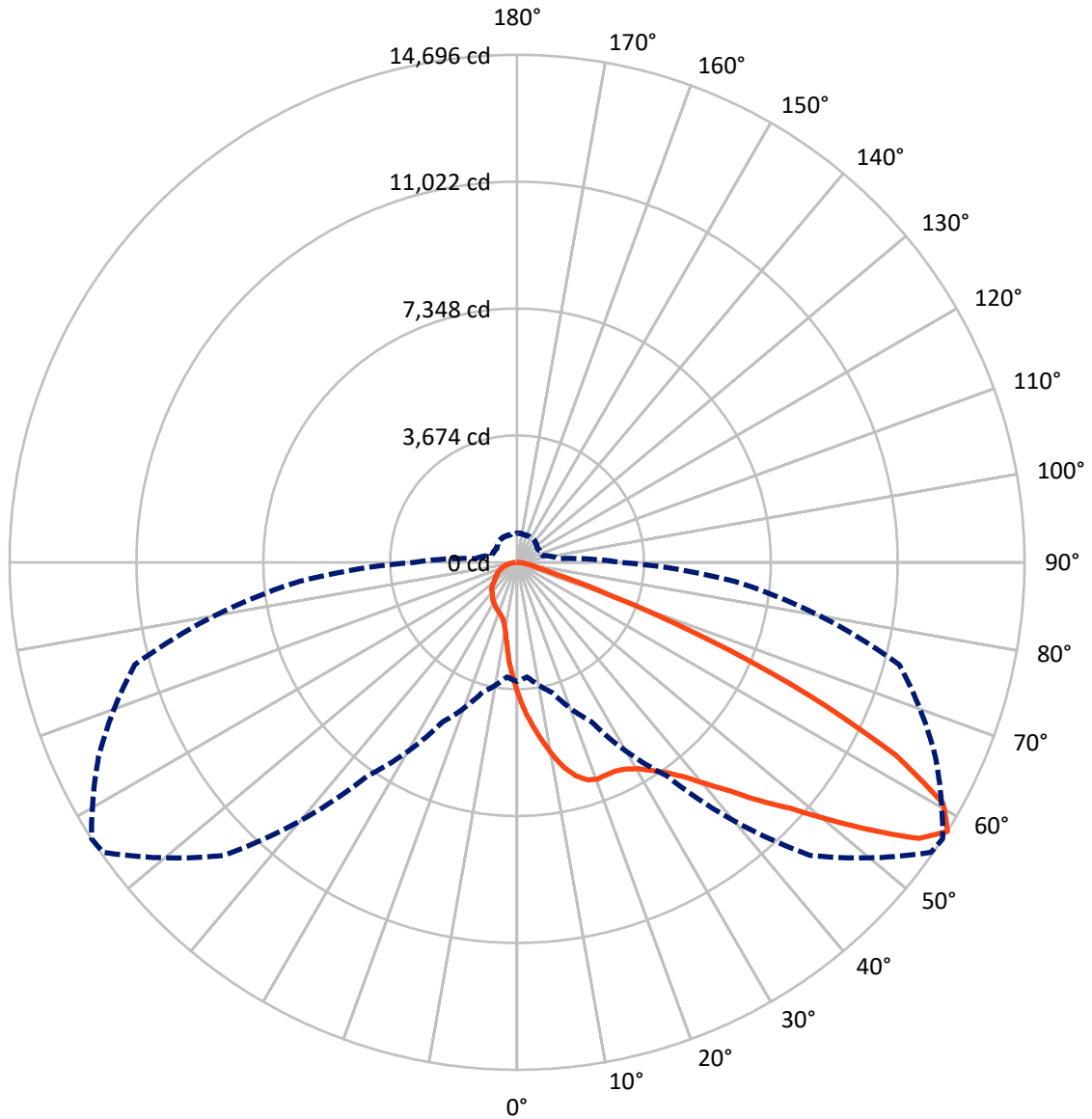
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P647925  
CATALOG NUMBER: GALN-SA5A-835-U-AFL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P647925  
 CATALOG NUMBER: GALN-SA5A-835-U-AFL

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2753.6	0.0	2753.6
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	15354.0	0.0	15354.0
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	18107.6	0.0	18107.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.6	2.0
10°-20°	1077.5	6.0
20°-30°	1789.2	9.9
30°-40°	2695.1	14.9
40°-50°	4046.4	22.3
50°-60°	4535.5	25.0
60°-70°	2654.4	14.7
70°-80°	785.2	4.3
80°-90°	158.7	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°	18107.6	100.0
0°-180°	18107.6	100.0

**Coefficient of Utilization**

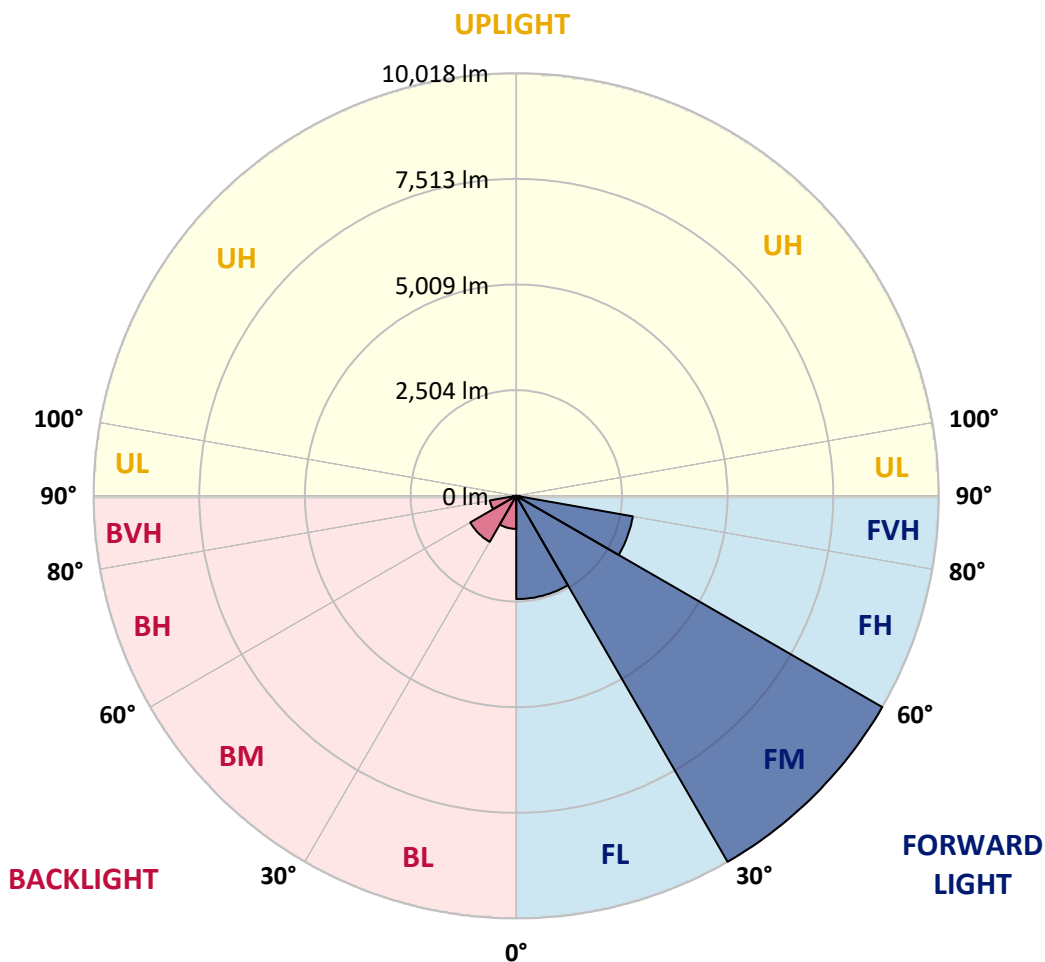


REPORT NUMBER: P647925  
 CATALOG NUMBER: GALN-SA5A-835-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2447.7	13.5			
FM (30°-60°)	10017.9	55.3			
FH (60°-80°)	2806.0	15.5			G2/5000
FVH (80°-90°)	82.3	0.5			G1/100
BL (0°-30°)	784.6	4.3	B2/1000		
BM (30°-60°)	1259.1	7.0	B2/2500		
BH (60°-80°)	633.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	76.4	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





REPORT NUMBER: P647925

CATALOG NUMBER: GALN-SA5A-835-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2
2.5°	4727.0	4675.4	4634.8	4599.2	4552.6	4426.7	4300.8	4298.8	4198.7	4044.1	3885.5
5°	5497.2	5427.8	5436.7	5325.7	5214.7	5032.3	4765.7	4751.8	4538.7	4249.3	3954.9
7.5°	5998.7	5999.7	5971.9	5908.5	5788.6	5581.5	5279.1	5210.7	4914.3	4475.2	4034.2
10°	5973.0	5999.7	6046.3	6100.8	6137.5	6035.4	5759.8	5676.6	5291.0	4748.8	4122.4
12.5°	5630.0	5671.7	5738.1	5874.8	6095.9	6264.4	6170.2	6102.8	5727.1	5021.4	4219.5
15°	5415.9	5440.7	5477.3	5569.6	5807.4	6210.8	6454.7	6419.0	6138.5	5329.6	4328.6
17.5°	5350.5	5375.3	5387.1	5443.7	5613.2	6026.4	6566.7	6630.1	6503.2	5613.2	4438.6
20°	5415.9	5427.8	5427.8	5461.5	5594.3	5918.5	6561.7	6689.6	6802.5	5953.1	4541.6
22.5°	5587.4	5592.3	5585.4	5597.3	5696.4	5948.1	6515.1	6673.7	7044.4	6241.5	4622.0
25°	5865.9	5873.8	5828.3	5800.5	5872.8	6079.0	6540.9	6686.6	7233.7	6517.1	4675.4
27.5°	6182.1	6192.0	6136.5	6072.1	6105.8	6240.6	6642.0	6772.9	7375.5	6788.7	4709.2
30°	6569.7	6573.6	6480.4	6403.1	6381.3	6481.4	6814.4	6936.4	7552.0	7108.9	4759.7
32.5°	6966.1	6995.9	6875.9	6766.9	6730.2	6761.0	7069.2	7187.2	7762.0	7452.8	4841.0
35°	7505.4	7510.3	7366.5	7233.7	7112.9	7152.5	7395.3	7480.5	8052.5	7850.3	4956.0
37.5°	8178.4	8223.9	8025.8	7777.9	7629.2	7571.8	7789.8	7883.0	8459.8	8337.9	5129.4
40°	8925.7	8942.6	8773.0	8618.5	8346.9	8180.3	8331.0	8432.1	8962.4	8919.8	5330.7
42.5°	9395.5	9432.3	9445.1	9429.3	9225.1	8945.5	9003.0	9050.6	9557.1	9465.9	5536.8
45°	9554.2	9608.7	9793.1	10183.5	10205.4	9929.8	9796.0	9841.6	10205.4	10017.0	5734.1
47.5°	9291.5	9384.6	9724.6	10525.5	11125.2	11146.0	10742.6	10642.5	10796.1	10474.0	5876.8
50°	8612.5	8632.3	9152.7	10312.4	11556.4	12308.7	11891.4	11705.1	11357.1	10812.0	5974.9
52.5°	7561.8	7584.6	8020.7	9322.2	11290.7	13121.4	13235.4	12902.4	11927.0	11074.7	6039.4
55°	5613.2	5744.9	6224.7	7482.5	10031.9	13045.2	14303.9	14114.7	12615.9	11282.8	6140.4
57.5°	3451.3	3330.4	3899.3	5090.8	7545.0	11996.4	14634.0	14695.5	13374.2	11457.2	6310.0
60°	1587.9	1611.6	1846.6	2625.7	4599.2	9384.6	13783.5	14172.1	13793.5	11451.3	6352.6
62.5°	1094.2	1072.5	1013.0	1152.7	2097.3	5935.3	11642.6	12300.8	12952.9	11095.4	6183.1
65°	978.3	956.5	841.5	802.9	963.5	2587.0	8463.8	9294.4	10906.2	10197.4	5760.8
67.5°	913.9	884.2	765.2	689.9	687.9	1029.9	4990.7	5990.8	8089.2	8621.5	4991.7
70°	846.5	822.7	704.8	621.5	585.8	647.2	2193.5	2871.5	5252.4	6212.8	3888.5
72.5°	779.1	751.3	645.3	556.1	509.5	484.7	840.6	1093.3	2967.6	3724.9	2383.8
75°	681.0	667.0	576.9	503.5	453.0	391.5	533.3	608.6	1419.4	1710.8	1196.3
77.5°	595.7	580.8	512.5	440.1	403.4	318.2	378.7	413.3	598.7	693.8	540.2
80°	436.1	451.0	432.1	388.5	359.8	249.8	254.7	283.4	355.9	393.5	330.0
82.5°	276.6	304.3	333.0	299.3	272.6	197.2	176.4	187.4	242.8	257.7	146.7
85°	116.0	117.9	193.2	182.4	155.6	117.0	106.1	112.0	129.8	135.8	68.4
87.5°	44.6	43.6	68.4	63.4	48.5	33.7	33.7	37.7	51.5	47.6	21.8
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: P647925  
 CATALOG NUMBER: GALN-SA5A-835-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2	3804.2
2.5°	3817.1	3746.7	3607.0	3433.5	3306.6	3163.9	3038.0	2947.8	2914.1	2898.3	2868.5
5°	3814.1	3675.3	3385.9	3082.6	2838.8	2589.0	2377.9	2241.1	2229.2	2138.0	2129.1
7.5°	3815.1	3603.0	3142.1	2696.0	2324.3	2068.6	1894.2	1848.6	1794.1	1780.2	1787.1
10°	3818.1	3510.8	2880.4	2313.5	1953.7	1786.1	1720.7	1702.9	1704.8	1710.8	1711.8
12.5°	3822.1	3421.6	2608.8	2023.0	1745.5	1676.1	1669.2	1685.0	1701.9	1714.8	1717.7
15°	3827.0	3319.5	2344.1	1789.1	1641.4	1635.5	1658.2	1685.0	1708.8	1727.7	1730.7
17.5°	3821.0	3200.6	2122.2	1645.4	1583.9	1612.7	1650.3	1684.1	1705.8	1723.7	1725.7
20°	3807.2	3067.7	1908.0	1544.3	1548.2	1594.8	1635.5	1667.2	1691.0	1699.9	1706.9
22.5°	3753.6	2909.2	1721.7	1466.0	1505.6	1570.1	1618.6	1637.5	1610.7	1591.8	1596.9
25°	3662.5	2703.0	1548.2	1402.5	1467.0	1535.4	1584.9	1539.3	1517.5	1509.6	1513.5
27.5°	3548.5	2477.0	1417.4	1336.1	1417.4	1496.7	1482.8	1474.9	1465.0	1452.1	1455.0
30°	3425.5	2256.0	1306.4	1284.6	1363.9	1409.5	1415.4	1428.3	1417.4	1397.6	1405.5
32.5°	3311.6	2047.8	1222.1	1241.0	1326.2	1319.3	1363.9	1378.8	1328.2	1261.8	1264.8
35°	3214.4	1854.5	1158.7	1198.4	1261.8	1264.8	1309.3	1257.8	1203.3	1171.6	1173.6
37.5°	3141.1	1703.9	1117.1	1161.7	1179.5	1217.2	1193.4	1166.7	1159.7	1137.9	1138.9
40°	3097.5	1572.0	1090.3	1132.9	1129.9	1155.7	1079.4	1106.1	1116.1	1109.1	1110.1
42.5°	3053.9	1478.9	1062.5	1093.3	1092.3	1041.8	1024.9	1047.7	1073.5	1076.5	1074.4
45°	3019.2	1406.5	1033.8	1032.9	1052.7	973.3	968.4	982.3	1018.9	1036.8	1035.8
47.5°	2980.5	1346.1	990.2	962.5	968.4	930.8	922.8	928.7	973.3	1002.1	1010.0
50°	2931.9	1285.6	935.7	898.0	873.3	891.1	893.1	894.0	938.7	971.4	978.3
52.5°	2893.3	1240.0	873.3	845.5	815.7	855.4	870.3	872.3	899.0	925.7	930.8
55°	2916.1	1214.2	811.8	792.0	765.2	818.7	847.4	851.4	857.4	877.2	880.2
57.5°	2984.5	1220.1	762.3	736.5	716.6	775.1	823.7	826.7	822.7	846.5	850.4
60°	3005.3	1217.2	725.5	675.0	663.1	728.5	789.0	794.9	794.0	828.6	835.6
62.5°	2918.1	1179.5	688.9	623.4	615.5	681.0	740.4	764.2	769.1	818.7	827.6
65°	2712.9	1102.2	640.3	568.9	568.9	630.4	693.8	726.5	740.4	806.8	816.7
67.5°	2442.3	1011.0	590.8	522.3	520.4	581.8	644.3	678.0	699.8	790.0	795.9
70°	2027.0	888.1	529.3	471.8	471.8	527.4	583.8	624.4	656.2	758.3	758.3
72.5°	1388.7	738.4	454.9	414.3	415.3	466.8	524.4	569.9	607.6	694.8	696.8
75°	878.2	576.9	373.6	352.9	356.8	405.4	464.9	512.5	587.8	686.9	689.9
77.5°	466.8	405.4	297.4	292.4	297.4	341.9	408.3	473.8	589.8	595.7	585.8
80°	302.3	287.4	234.9	225.0	227.0	275.5	363.8	450.0	473.8	479.7	457.9
82.5°	164.5	182.4	166.5	156.6	156.6	215.1	310.2	357.8	340.0	282.5	269.6
85°	70.4	85.3	86.2	75.3	72.3	132.8	208.1	195.3	181.4	173.4	171.5
87.5°	19.8	27.7	27.7	20.8	15.9	36.6	41.7	11.9	0.0	1.0	2.0
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)