

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: P456835

Luminaire Tested: **GALN-SA8A-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456835
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-SA8A-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27412 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

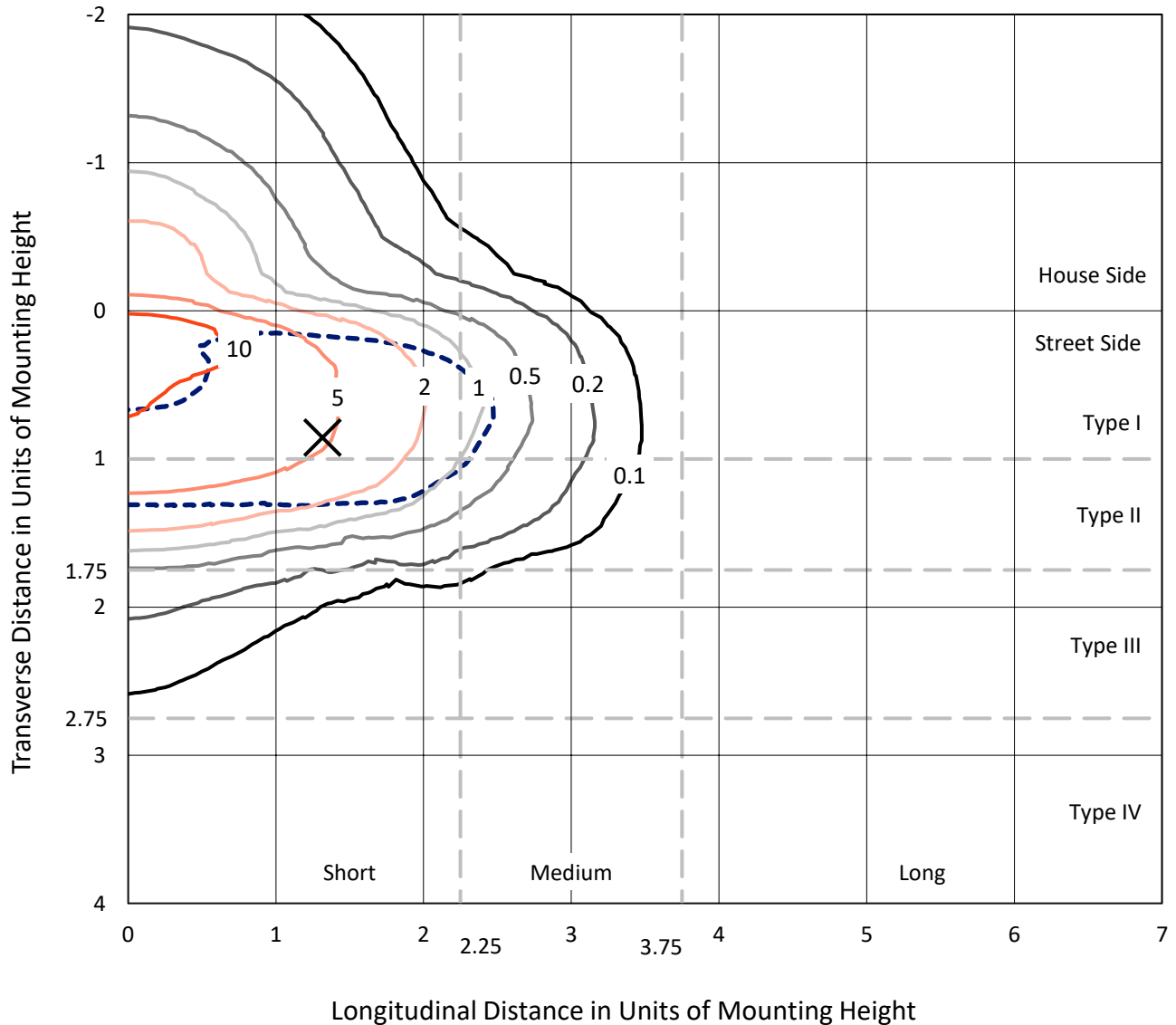
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456835
 CATALOG NUMBER: GALN-SA8A-827-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

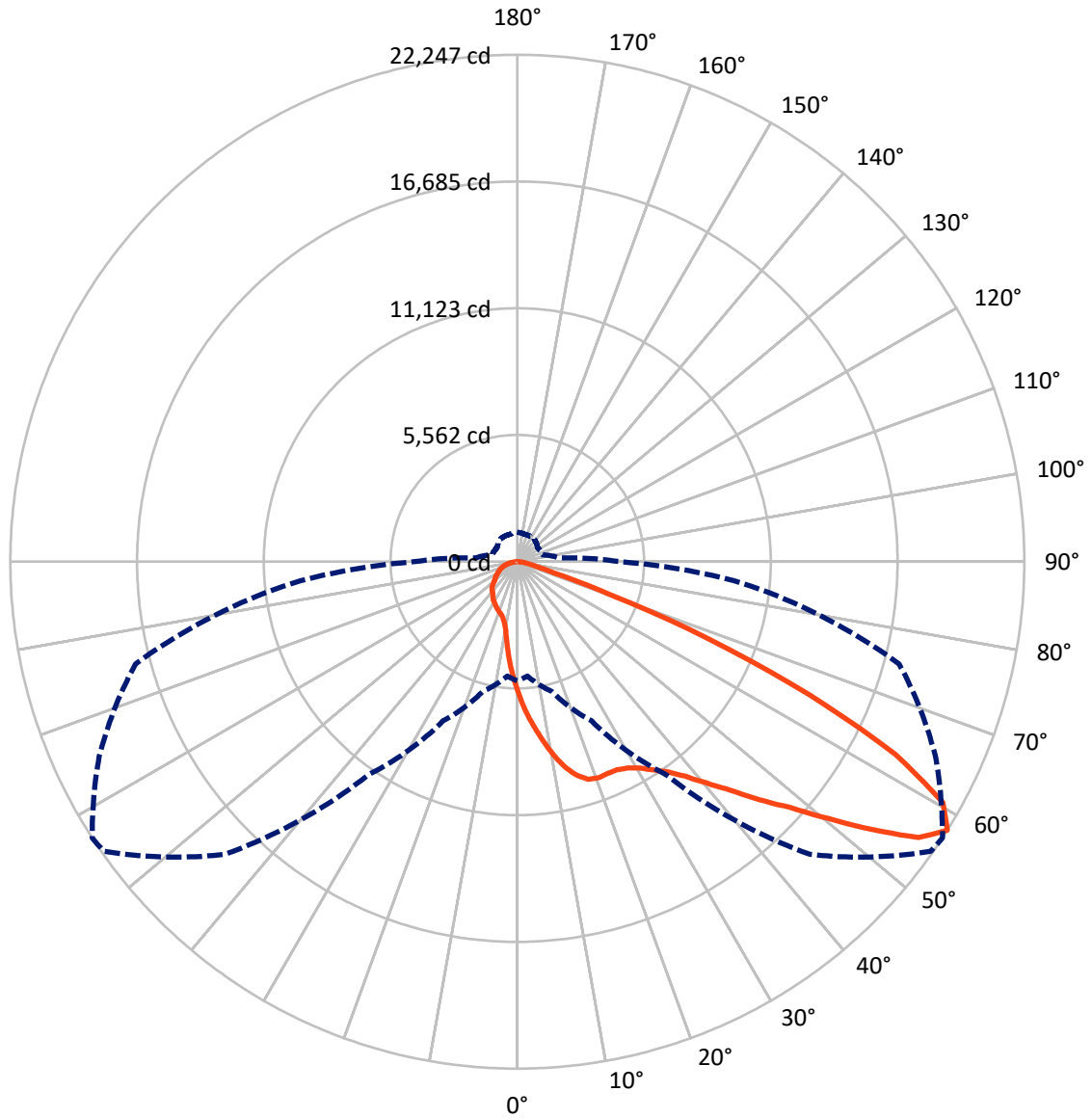
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

REPORT NUMBER: P456835
CATALOG NUMBER: GALN-SA8A-827-U-AFL

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
House Side	Lumens	4168.6	0.0	4168.6
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	23243.4	0.0	23243.4
	% Fixture	84.8	0.0	84.8
Total	Lumens	27412.0	0.0	27412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.5	2.0
10°-20°	1631.2	6.0
20°-30°	2708.6	9.9
30°-40°	4079.9	14.9
40°-50°	6125.6	22.3
50°-60°	6866.0	25.0
60°-70°	4018.3	14.7
70°-80°	1188.6	4.3
80°-90°	240.2	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°	27412.0	100.0
0°-180°	27412.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456835

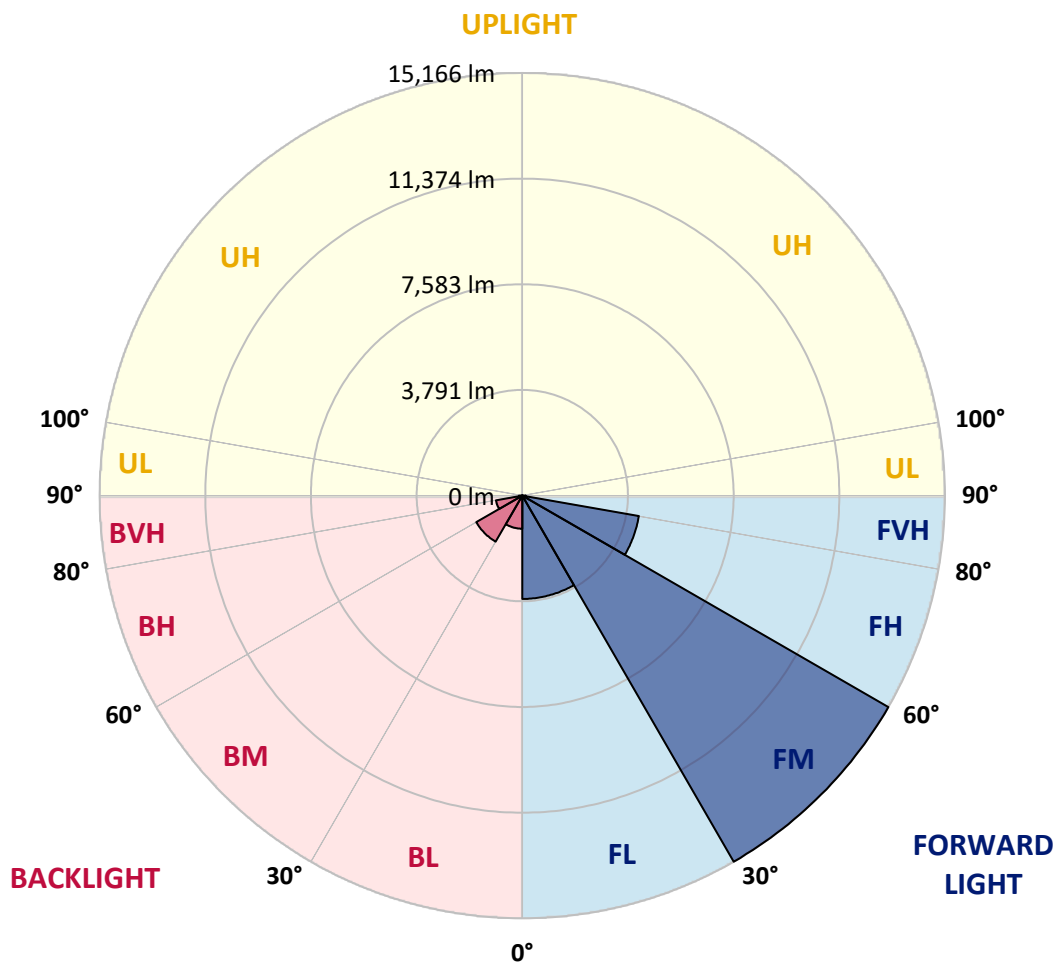
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3705.5	13.5			
FM	(30°-60°)	15165.5	55.3			
FH	(60°-80°)	4247.8	15.5			G2/5000
FVH	(80°-90°)	124.6	0.5			G2/225
BL	(0°-30°)	1187.8	4.3	B3/2500		
BM	(30°-60°)	1906.0	7.0	B2/2500		
BH	(60°-80°)	959.2	3.5	B2/1000		G2/1000
BVH	(80°-90°)	115.6	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-G2

Type II Short





REPORT NUMBER: P456835

CATALOG NUMBER: GALN-SA8A-827-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9
2.5°	7155.9	7077.9	7016.4	6962.4	6891.8	6701.3	6510.7	6507.7	6356.1	6122.1	5882.0
5°	8321.8	8216.8	8230.3	8062.2	7894.2	7618.1	7214.4	7193.4	6870.8	6432.7	5987.0
7.5°	9081.1	9082.6	9040.6	8944.5	8763.0	8449.4	7991.7	7888.2	7439.5	6774.8	6107.1
10°	9042.1	9082.6	9153.1	9235.6	9291.1	9136.6	8719.4	8593.4	8009.7	7188.9	6240.6
12.5°	8522.9	8585.9	8686.4	8893.5	9228.1	9483.2	9340.7	9238.6	8669.9	7601.6	6387.7
15°	8198.8	8236.3	8291.8	8431.4	8791.5	9402.2	9771.3	9717.3	9292.6	8068.2	6552.7
17.5°	8099.7	8137.3	8155.3	8240.8	8497.4	9123.1	9940.9	10036.9	9844.8	8497.4	6719.3
20°	8198.8	8216.8	8216.8	8267.8	8468.9	8959.5	9933.4	10126.9	10298.0	9012.0	6875.3
22.5°	8458.4	8465.9	8455.4	8473.4	8623.4	9004.5	9862.8	10102.9	10664.1	9448.7	6996.9
25°	8880.0	8892.0	8823.0	8781.0	8890.5	9202.6	9901.8	10122.4	10950.7	9865.8	7077.9
27.5°	9358.7	9373.7	9289.6	9192.1	9243.1	9447.2	10054.9	10253.0	11165.3	10277.0	7128.9
30°	9945.4	9951.4	9810.3	9693.3	9660.3	9811.8	10316.0	10500.6	11432.4	10761.6	7205.4
32.5°	10545.6	10590.6	10409.0	10244.0	10188.4	10235.0	10701.6	10880.2	11750.5	11282.3	7328.5
35°	11361.8	11369.3	11151.8	10950.7	10767.6	10827.7	11195.3	11324.3	12190.1	11884.0	7502.5
37.5°	12380.7	12449.7	12149.6	11774.5	11549.4	11462.4	11792.5	11933.5	12806.8	12622.3	7765.1
40°	13512.1	13537.6	13281.0	13046.9	12635.8	12383.7	12611.8	12764.8	13567.6	13503.1	8069.7
42.5°	14223.3	14278.8	14298.3	14274.3	13965.2	13542.1	13629.1	13701.1	14467.9	14329.8	8381.8
45°	14463.4	14545.9	14825.0	15416.2	15449.2	15032.1	14829.5	14898.5	15449.2	15164.1	8680.4
47.5°	14065.8	14206.8	14721.5	15933.9	16841.7	16873.2	16262.5	16110.9	16343.5	15855.9	8896.5
50°	13037.9	13067.9	13855.7	15611.3	17494.4	18633.3	18001.6	17719.5	17192.8	16367.5	9045.1
52.5°	11447.4	11481.9	12142.1	14112.3	17092.3	19863.7	20036.3	19532.1	18055.6	16765.2	9142.6
55°	8497.4	8696.9	9423.2	11327.3	15186.6	19748.2	21653.8	21367.2	19098.5	17080.3	9295.6
57.5°	5224.8	5041.7	5903.0	7706.6	11421.9	18160.6	22153.5	22246.5	20246.3	17344.4	9552.2
60°	2403.8	2439.8	2795.4	3974.8	6962.4	14206.8	20866.1	21454.3	20881.1	17335.4	9616.8
62.5°	1656.6	1623.5	1533.5	1745.1	3175.1	8985.0	17625.0	18621.3	19608.6	16796.7	9360.2
65°	1481.0	1448.0	1273.9	1215.4	1458.5	3916.3	12812.8	14070.3	16510.1	15437.2	8720.9
67.5°	1383.5	1338.5	1158.4	1044.4	1041.4	1559.0	7555.1	9069.1	12245.6	13051.4	7556.6
70°	1281.4	1245.4	1066.9	940.8	886.8	979.8	3320.6	4347.0	7951.2	9405.2	5886.5
72.5°	1179.4	1137.4	976.8	841.8	771.3	733.7	1272.4	1655.1	4492.5	5638.9	3608.7
75°	1030.8	1009.8	873.3	762.3	685.7	592.7	807.3	921.3	2148.7	2589.9	1811.1
77.5°	901.8	879.3	775.8	666.2	610.7	481.7	573.2	625.7	906.3	1050.4	817.8
80°	660.2	682.7	654.2	588.2	544.7	378.1	385.6	429.1	538.7	595.7	499.7
82.5°	418.6	460.7	504.2	453.2	412.6	298.6	267.1	283.6	367.6	390.1	222.1
85°	175.6	178.6	292.6	276.1	235.6	177.1	160.6	169.6	196.6	205.6	103.5
87.5°	67.5	66.0	103.5	96.0	73.5	51.0	51.0	57.0	78.0	72.0	33.0
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°	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9	5758.9
2.5°	5778.5	5671.9	5460.3	5197.8	5005.7	4789.6	4599.1	4462.5	4411.5	4387.5	4342.5
5°	5774.0	5563.9	5125.7	4666.6	4297.5	3919.3	3599.7	3392.6	3374.6	3236.6	3223.1
7.5°	5775.5	5454.3	4756.6	4081.4	3518.7	3131.6	2867.5	2798.4	2715.9	2694.9	2705.4
10°	5780.0	5314.8	4360.5	3502.2	2957.5	2703.9	2604.9	2577.9	2580.9	2589.9	2591.4
12.5°	5786.0	5179.8	3949.3	3062.5	2642.4	2537.4	2526.9	2550.9	2576.4	2595.9	2600.4
15°	5793.5	5025.2	3548.7	2708.4	2484.8	2475.8	2510.3	2550.9	2586.9	2615.4	2619.9
17.5°	5784.5	4845.1	3212.6	2490.8	2397.8	2441.3	2498.3	2549.4	2582.4	2609.4	2612.4
20°	5763.4	4644.1	2888.5	2337.8	2343.8	2414.3	2475.8	2523.9	2559.9	2573.4	2583.9
22.5°	5682.4	4404.0	2606.4	2219.3	2279.3	2376.8	2450.3	2478.8	2438.3	2409.8	2417.3
25°	5544.4	4091.9	2343.8	2123.2	2220.8	2324.3	2399.3	2330.3	2297.3	2285.3	2291.3
27.5°	5371.8	3749.8	2145.7	2022.7	2145.7	2265.8	2244.8	2232.8	2217.7	2198.2	2202.7
30°	5185.8	3415.2	1977.7	1944.7	2064.7	2133.7	2142.7	2162.2	2145.7	2115.7	2127.7
32.5°	5013.2	3100.0	1850.1	1878.6	2007.7	1997.2	2064.7	2087.2	2010.7	1910.1	1914.6
35°	4866.1	2807.4	1754.1	1814.1	1910.1	1914.6	1982.2	1904.1	1821.6	1773.6	1776.6
37.5°	4755.1	2579.4	1691.1	1758.6	1785.6	1842.6	1806.6	1766.1	1755.6	1722.6	1724.1
40°	4689.1	2379.8	1650.6	1715.1	1710.6	1749.6	1634.1	1674.6	1689.6	1679.1	1680.6
42.5°	4623.1	2238.8	1608.5	1655.1	1653.6	1577.0	1551.5	1586.0	1625.0	1629.6	1626.6
45°	4570.5	2129.2	1565.0	1563.5	1593.5	1473.5	1466.0	1487.0	1542.5	1569.5	1568.0
47.5°	4512.0	2037.7	1499.0	1457.0	1466.0	1409.0	1397.0	1406.0	1473.5	1517.0	1529.0
50°	4438.5	1946.2	1416.5	1359.5	1321.9	1349.0	1352.0	1353.5	1421.0	1470.5	1481.0
52.5°	4380.0	1877.1	1321.9	1279.9	1234.9	1294.9	1317.4	1320.4	1361.0	1401.5	1409.0
55°	4414.5	1838.1	1228.9	1198.9	1158.4	1239.4	1282.9	1288.9	1297.9	1327.9	1332.5
57.5°	4518.0	1847.1	1153.9	1114.9	1084.9	1173.4	1246.9	1251.4	1245.4	1281.4	1287.4
60°	4549.5	1842.6	1098.4	1021.8	1003.8	1102.9	1194.4	1203.4	1201.9	1254.4	1264.9
62.5°	4417.5	1785.6	1042.9	943.8	931.8	1030.8	1120.9	1156.9	1164.4	1239.4	1252.9
65°	4106.9	1668.6	969.3	861.3	861.3	954.3	1050.4	1099.9	1120.9	1221.4	1236.4
67.5°	3697.3	1530.5	894.3	790.8	787.8	880.8	975.3	1026.3	1059.4	1195.9	1204.9
70°	3068.5	1344.5	801.3	714.2	714.2	798.3	883.8	945.3	993.3	1147.9	1147.9
72.5°	2102.2	1117.9	688.7	627.2	628.7	706.7	793.8	862.8	919.8	1051.9	1054.9
75°	1329.4	873.3	565.7	534.2	540.2	613.7	703.7	775.8	889.8	1039.9	1044.4
77.5°	706.7	613.7	450.2	442.6	450.2	517.7	618.2	717.2	892.8	901.8	886.8
80°	457.7	435.1	355.6	340.6	343.6	417.1	550.7	681.2	717.2	726.2	693.2
82.5°	249.1	276.1	252.1	237.1	237.1	325.6	469.7	541.7	514.7	427.6	408.1
85°	106.5	129.0	130.5	114.0	109.5	201.1	315.1	295.6	274.6	262.6	259.6
87.5°	30.0	42.0	42.0	31.5	24.0	55.5	63.0	18.0	0.0	1.5	3.0
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)