

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: P652597

Luminaire Tested: **GALN-SA9B-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32362.5 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

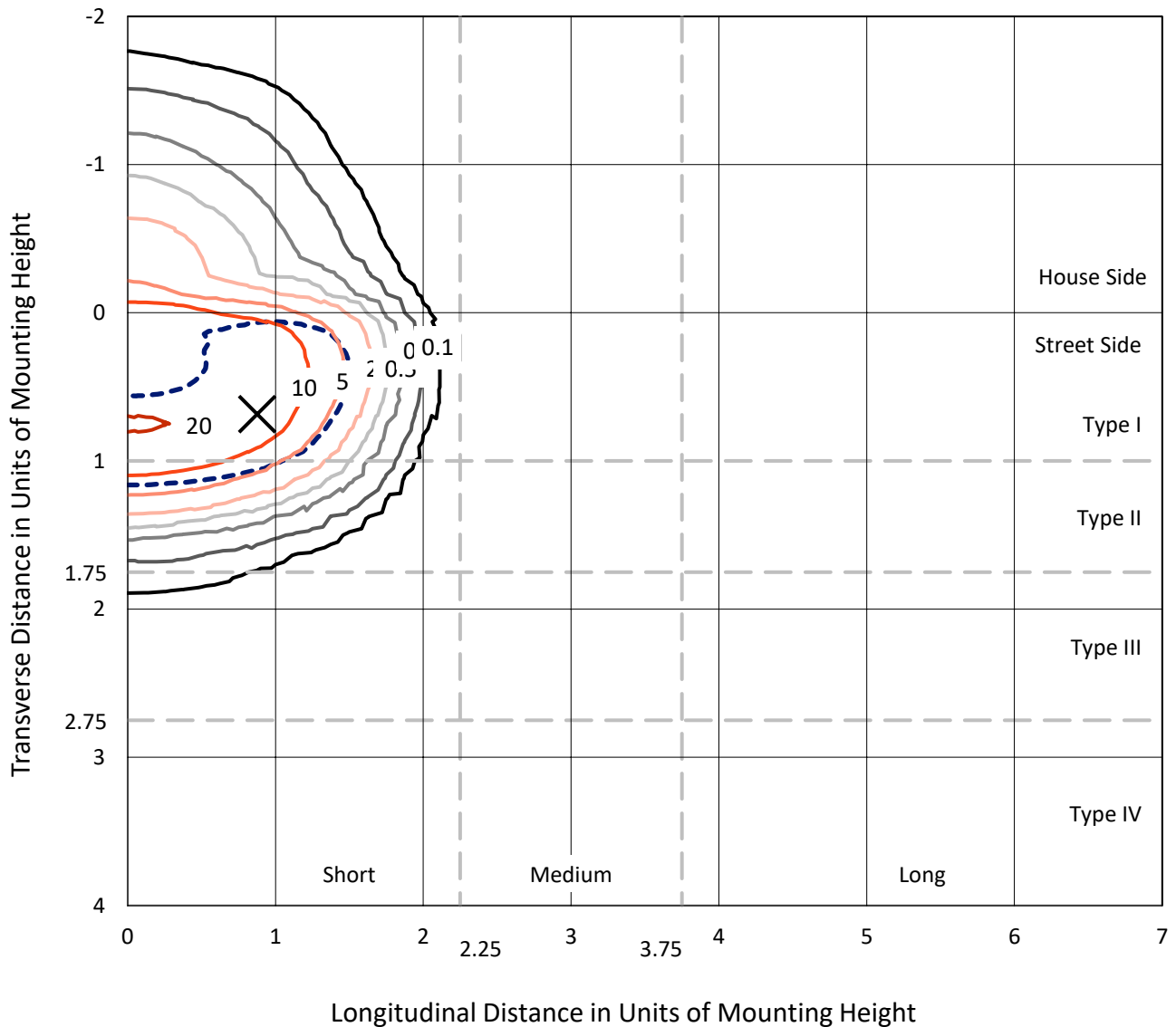
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652597
 CATALOG NUMBER: GALN-SA9B-840-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

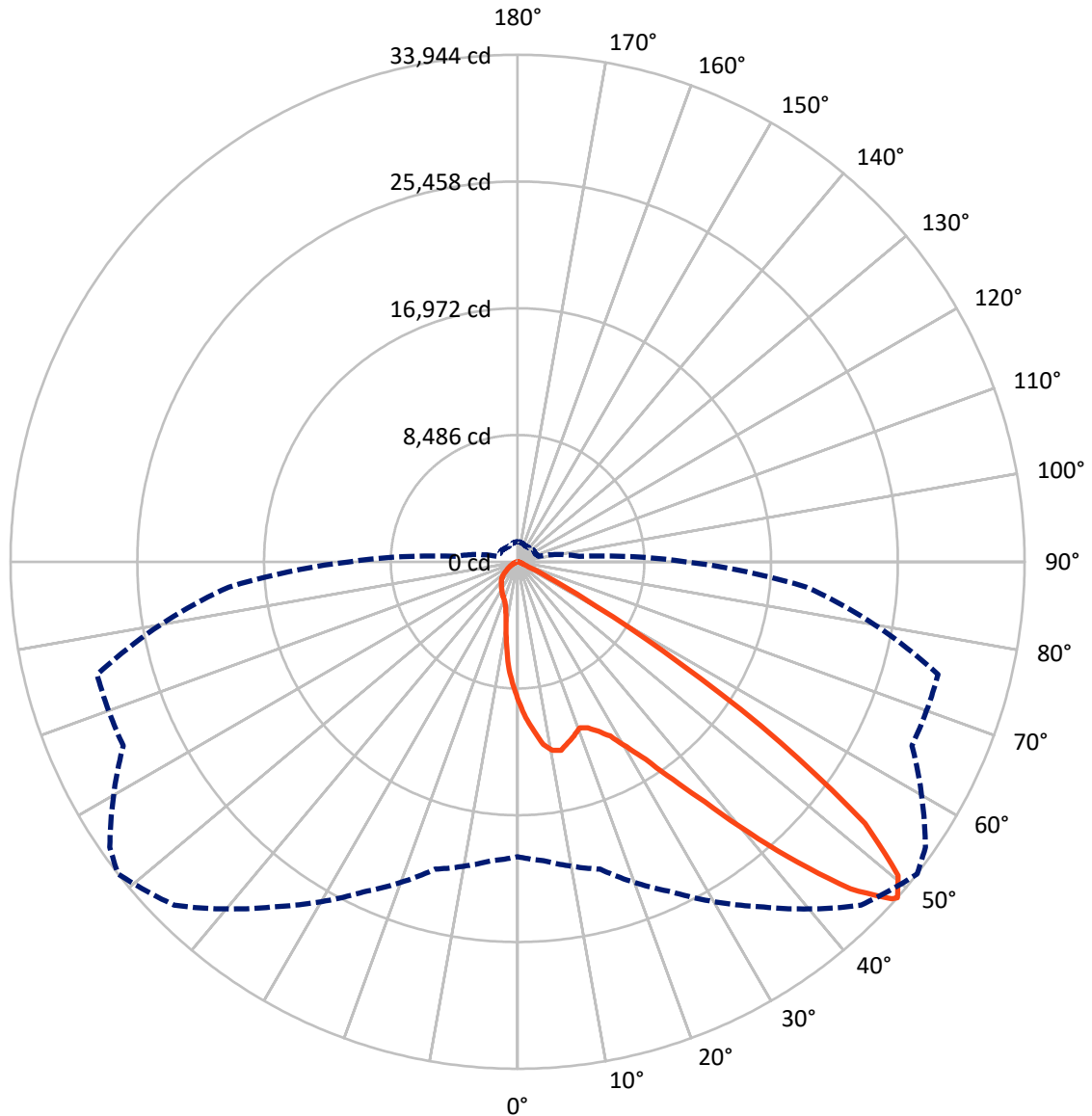
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - N/A

REPORT NUMBER: P652597
CATALOG NUMBER: GALN-SA9B-840-U-AFL-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

REPORT NUMBER: P652597
 CATALOG NUMBER: GALN-SA9B-840-U-AFL-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3940.4	0.0	3940.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	28422.1	0.0	28422.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	32362.5	0.0	32362.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	855.4	2.6
10°-20°	2235.5	6.9
20°-30°	3816.9	11.8
30°-40°	7028.8	21.7
40°-50°	10915.7	33.7
50°-60°	6569.4	20.3
60°-70°	759.8	2.3
70°-80°	147.1	0.5
80°-90°	34.0	0.1
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°	32362.5	100.0
0°-180°	32362.5	100.0

Coefficient of Utilization



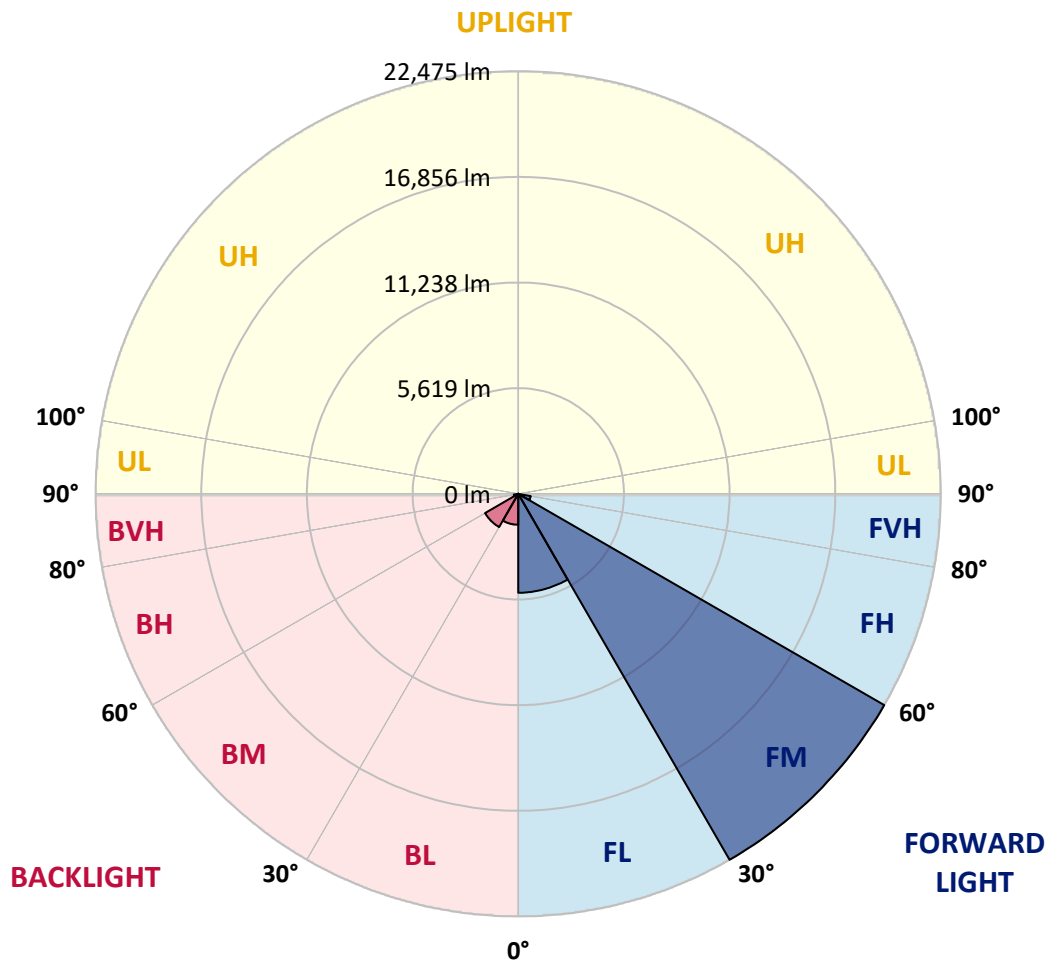
REPORT NUMBER: P652597
 CATALOG NUMBER: GALN-SA9B-840-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5261.7	16.3			
FM (30°-60°)	22475.1	69.4			
FH (60°-80°)	669.1	2.1			G1/1800
FVH (80°-90°)	16.2	0.0			G1/100
BL (0°-30°)	1646.0	5.1	B3/2500		
BM (30°-60°)	2038.7	6.3	B2/2500		
BH (60°-80°)	237.8	0.7	B1/500		G1/500
BVH (80°-90°)	17.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





REPORT NUMBER: P652597

CATALOG NUMBER: GALN-SA9B-840-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8
2.5°	11327.2	11067.7	11091.3	10921.5	10822.4	10662.0	10445.0	10402.5	10166.6	9845.8	9520.3
5°	12346.2	12284.9	12365.1	12119.7	12129.2	11865.0	11355.5	11364.9	10822.4	10298.7	9793.9
7.5°	12412.2	12270.7	12350.9	12567.9	12695.3	12648.1	12360.3	12110.3	11596.1	10827.1	10091.2
10°	11114.9	11383.8	11468.7	11827.2	12336.8	12874.6	12841.6	12855.7	12426.4	11421.5	10345.9
12.5°	10336.5	10157.2	10445.0	10662.0	11431.0	12473.6	12950.1	13053.8	13086.9	11997.1	10600.6
15°	9982.7	9982.7	10029.9	10091.2	10647.8	11610.3	12582.1	12884.0	13596.4	12751.9	11001.7
17.5°	10204.4	10194.9	10261.0	10133.6	10341.2	11081.9	12242.4	12586.8	14167.2	13492.6	11317.8
20°	10879.0	10912.1	10869.6	10501.6	10515.8	11072.4	11865.0	12407.5	14554.1	14134.2	11737.7
22.5°	11817.8	11836.7	11596.1	11195.1	11077.1	11350.8	12082.1	12497.2	14865.4	14903.2	11865.0
25°	12902.9	12827.4	12780.3	12214.1	11855.6	12091.5	12572.7	12813.3	15058.9	15563.7	12228.3
27.5°	14407.8	14256.9	13969.1	13464.3	13200.1	12865.2	13209.6	13605.9	15610.9	16488.4	12624.6
30°	16629.8	16497.8	15936.4	15285.3	14591.9	14261.6	14370.1	14587.1	16606.3	17559.2	13148.2
32.5°	19974.8	19696.4	18884.9	17644.2	16700.7	15790.1	15761.9	15993.0	17497.9	19040.7	13771.0
35°	23659.3	23574.3	22380.8	21102.3	19276.5	17870.7	17894.2	18016.9	19205.7	20984.3	14587.1
37.5°	26107.8	26574.8	25815.3	24442.4	22909.2	20899.4	20389.9	20432.3	21550.5	23286.5	16059.1
40°	27999.5	27603.2	27692.9	27372.1	26324.7	24956.6	23829.1	23607.4	24263.1	25834.1	17521.6
42.5°	27174.0	27192.8	27744.8	28504.3	28763.8	28664.7	27513.7	27093.7	26584.3	27919.3	18913.2
45°	24843.4	25329.3	26046.4	28056.2	29820.6	31476.4	31250.0	30551.8	28188.2	29570.6	19715.2
47.5°	21125.8	21107.0	22281.7	24895.3	28815.7	32693.6	33722.1	33231.4	29325.2	29386.6	19550.1
48°	19753.0	20092.7	21305.1	24381.1	28178.8	32514.4	33943.9	33325.8	29131.8	29141.2	19408.6
50°	14601.3	14540.0	16049.6	19823.8	25168.9	30551.8	33009.8	33491.0	29127.0	27900.4	18417.9
52.5°	7713.4	7977.6	9076.8	12464.1	17795.1	25003.8	29117.6	29867.8	28098.6	25871.9	16993.2
55°	3278.8	2962.7	3807.2	5628.2	10010.9	16705.4	21361.7	23031.8	23758.3	22895.0	14865.4
57.5°	1170.0	1278.5	1471.9	2118.2	4208.2	9142.9	12737.8	14035.1	16460.1	16799.7	10128.9
60°	750.1	764.3	825.6	971.9	1580.4	3524.1	6043.3	7076.5	8175.8	8439.9	4727.1
62.5°	580.3	585.0	613.3	636.9	750.1	1368.1	2269.2	2689.1	2792.9	2401.3	1240.7
65°	485.9	490.6	500.1	500.1	533.1	641.6	792.6	872.8	849.2	839.7	702.9
67.5°	372.7	382.2	401.0	401.0	419.9	391.6	438.7	467.1	528.4	641.6	599.1
70°	292.5	297.2	311.3	320.8	320.8	283.1	316.0	344.4	386.9	476.5	471.8
72.5°	226.5	235.9	245.3	245.3	231.2	193.4	226.5	250.0	278.4	330.3	320.8
75°	174.6	174.6	179.3	146.2	113.2	99.1	136.8	165.1	207.6	217.0	179.3
77.5°	47.2	51.9	47.2	42.5	47.2	70.7	89.7	103.8	132.1	132.1	117.9
80°	0.0	4.7	14.1	28.3	47.2	66.0	80.2	89.7	103.8	113.2	108.5
82.5°	0.0	4.7	14.1	28.3	42.5	51.9	70.7	75.5	84.9	99.1	99.1
85°	0.0	4.7	9.4	18.8	28.3	33.1	33.1	28.3	28.3	23.5	18.8
87.5°	0.0	0.0	4.7	9.4	9.4	14.1	14.1	14.1	14.1	14.1	14.1
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: P652597

CATALOG NUMBER: GALN-SA9B-840-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8	9345.8
2.5°	9393.0	9246.7	9024.9	8675.8	8340.9	8123.9	7916.3	7685.1	7557.7	7548.3	7477.6
5°	9506.2	9175.9	8647.5	8048.4	7406.8	6854.8	6298.2	5934.9	5609.3	5430.1	5397.0
7.5°	9567.5	9138.2	8284.3	7279.4	6184.9	5283.8	4661.1	4203.5	4024.2	3892.1	3887.4
10°	9694.9	9072.1	7741.7	6260.4	4906.4	3995.9	3566.6	3359.0	3260.0	3222.2	3165.6
12.5°	9789.2	8949.5	7185.1	5213.0	3877.9	3311.9	3123.1	3076.0	3080.7	3099.5	3076.0
15°	9921.3	8840.9	6434.9	4278.9	3255.2	2981.6	2981.6	2991.0	3057.0	3066.5	3061.7
17.5°	9911.9	8628.7	5661.3	3524.1	2877.8	2840.1	2854.2	2943.8	2986.3	3000.4	2967.5
20°	10025.1	8430.5	4863.9	3009.9	2665.5	2722.1	2816.4	2840.1	2891.9	2901.4	2863.6
22.5°	9992.1	7935.2	4123.3	2604.2	2505.1	2613.6	2707.9	2736.3	2722.1	2693.8	2689.1
25°	9930.8	7510.6	3443.9	2335.3	2387.2	2505.1	2594.7	2542.8	2514.5	2519.2	2524.0
27.5°	9822.2	6972.7	2882.5	2146.6	2226.7	2401.3	2396.6	2377.8	2406.0	2382.5	2406.0
30°	9803.4	6434.9	2420.1	1976.7	2108.8	2236.2	2245.6	2278.7	2311.7	2269.2	2311.7
32.5°	9831.7	5845.2	2090.0	1872.9	2038.1	2042.8	2146.6	2179.5	2156.0	2061.6	2071.0
35°	10048.7	5392.3	1849.4	1816.3	1924.8	1929.5	2028.6	1986.2	1882.3	1825.7	1858.8
37.5°	10506.3	5014.9	1736.1	1764.4	1773.8	1835.1	1839.9	1755.0	1764.4	1759.7	1778.5
40°	11091.3	4727.1	1655.9	1717.2	1707.8	1750.3	1580.4	1627.6	1670.1	1684.2	1693.7
42.5°	11492.3	4519.5	1604.0	1641.8	1622.9	1547.4	1453.1	1500.3	1533.2	1585.1	1594.6
45°	11671.6	4354.4	1542.6	1509.7	1509.7	1372.8	1335.1	1344.5	1420.0	1476.6	1467.2
47.5°	11379.1	4194.1	1434.2	1335.1	1368.1	1254.9	1212.5	1212.5	1292.6	1363.4	1349.3
48°	11265.9	4128.0	1438.9	1297.3	1321.0	1236.0	1193.5	1184.1	1273.8	1339.8	1339.8
50°	10704.4	3882.6	1316.2	1193.5	1146.4	1136.9	1108.7	1118.1	1174.7	1236.0	1236.0
52.5°	9609.9	3354.2	1113.4	1023.7	938.8	995.4	1009.6	990.7	1019.0	1075.6	1070.9
55°	8020.1	2575.9	891.6	849.2	783.1	844.4	872.8	849.2	820.9	863.4	863.4
57.5°	5137.6	1387.0	712.4	721.8	655.7	717.1	740.7	684.1	632.2	665.2	660.4
60°	2316.4	830.3	585.0	570.9	528.4	599.1	636.9	570.9	500.1	523.7	547.2
62.5°	868.1	589.7	443.5	434.0	424.6	490.6	509.5	457.6	386.9	401.0	405.7
65°	636.9	519.0	353.8	320.8	339.7	386.9	377.4	325.6	278.4	278.4	287.8
67.5°	542.5	452.9	287.8	250.0	250.0	254.7	235.9	207.6	193.4	202.8	212.3
70°	424.6	358.5	226.5	193.4	174.6	155.7	136.8	132.1	117.9	132.1	127.4
72.5°	273.7	240.6	174.6	146.2	132.1	108.5	89.7	84.9	70.7	66.0	66.0
75°	146.2	146.2	136.8	117.9	103.8	84.9	70.7	56.6	37.8	28.3	28.3
77.5°	103.8	113.2	122.7	113.2	94.4	70.7	56.6	37.8	18.8	9.4	9.4
80°	99.1	113.2	122.7	108.5	94.4	70.7	51.9	28.3	14.1	4.7	4.7
82.5°	89.7	103.8	113.2	99.1	84.9	61.3	47.2	28.3	14.1	4.7	4.7
85°	18.8	23.5	28.3	28.3	33.1	42.5	33.1	23.5	9.4	4.7	4.7
87.5°	14.1	14.1	14.1	14.1	14.1	14.1	9.4	9.4	4.7	4.7	4.7
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)