

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: P652084

Luminaire Tested: **GALN-SA8A-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-840-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18888 lumens
Efficiency: N/A
Efficacy: 77.4 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

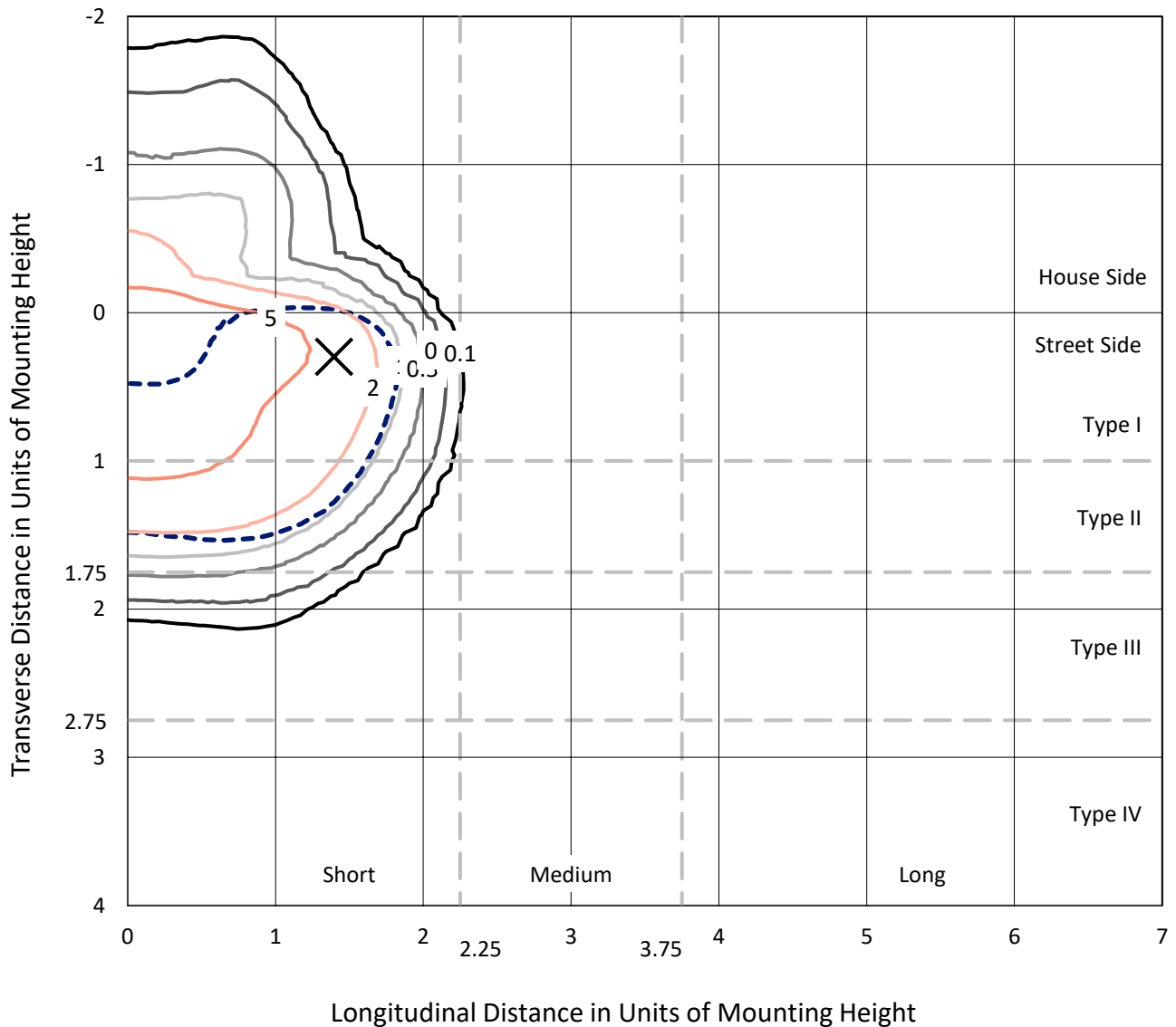
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652084
 CATALOG NUMBER: GALN-SA8A-840-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

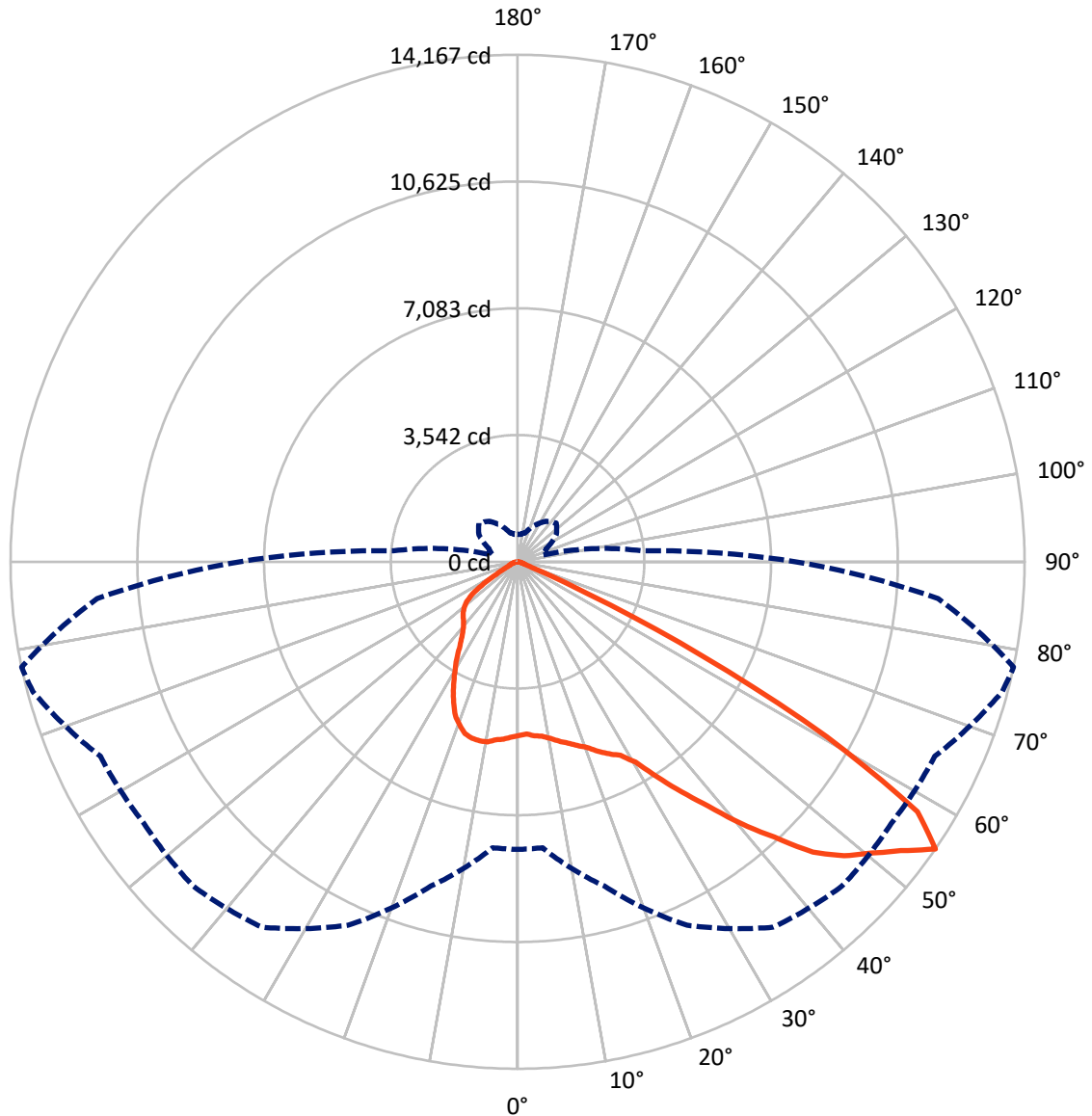
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - N/A

REPORT NUMBER: P652084
CATALOG NUMBER: GALN-SA8A-840-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P652084
 CATALOG NUMBER: GALN-SA8A-840-U-T3R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3508.2	0.0	3508.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15379.8	0.0	15379.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	18888.0	0.0	18888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.0	2.3
10°-20°	1146.0	6.1
20°-30°	2008.7	10.6
30°-40°	3312.1	17.5
40°-50°	4819.5	25.5
50°-60°	5461.0	28.9
60°-70°	1561.4	8.3
70°-80°	121.2	0.6
80°-90°	25.2	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°	18888.0	100.0
0°-180°	18888.0	100.0

Coefficient of Utilization



REPORT NUMBER: P652084

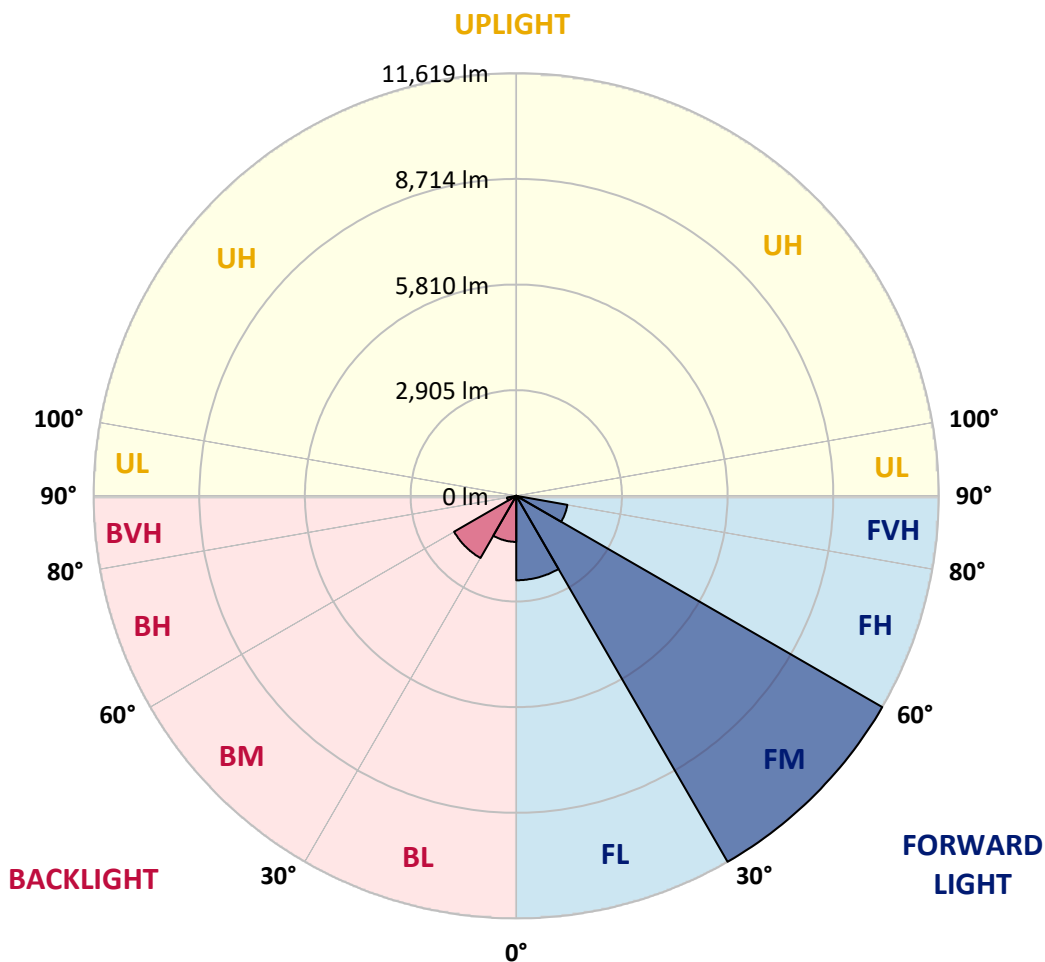
CATALOG NUMBER: GALN-SA8A-840-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2321.9	12.3			
FM	(30°-60°)	11619.1	61.5			
FH	(60°-80°)	1426.5	7.6			G1/1800
FVH	(80°-90°)	12.3	0.1			G1/100
BL	(0°-30°)	1265.8	6.7	B3/2500		
BM	(30°-60°)	1973.4	10.4	B2/2500		
BH	(60°-80°)	256.1	1.4	B1/500		G1/500
BVH	(80°-90°)	12.9	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: P652084

CATALOG NUMBER: GALN-SA8A-840-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1
2.5°	4565.7	4609.6	4616.3	4670.4	4667.0	4758.2	4785.2	4788.6	4849.4	4819.0	4896.6
5°	4437.4	4413.7	4403.6	4498.2	4525.2	4606.2	4673.8	4714.3	4839.2	4883.1	4964.2
7.5°	4322.6	4322.6	4329.3	4413.7	4403.6	4508.3	4579.2	4704.1	4886.5	4923.6	5021.6
10°	4211.1	4170.6	4221.2	4309.0	4383.4	4430.6	4579.2	4697.4	4910.2	5018.2	5153.3
12.5°	4153.7	4174.0	4180.7	4244.9	4325.9	4467.7	4548.8	4744.7	5079.0	5143.1	5288.4
15°	4515.1	4474.5	4376.6	4319.2	4386.7	4454.3	4656.9	4856.1	5166.8	5258.0	5420.1
17.5°	4933.8	4900.0	4819.0	4663.6	4511.6	4636.6	4795.3	4977.7	5261.4	5396.4	5636.2
20°	5480.9	5426.8	5345.8	5041.9	4910.2	4775.1	4943.9	5160.0	5416.7	5538.2	5784.8
22.5°	6132.7	6132.7	5950.2	5582.1	5308.6	5180.3	5251.2	5376.2	5588.9	5754.4	5997.5
25°	6811.4	6791.2	6625.7	6244.1	5781.5	5629.5	5710.5	5798.3	5855.7	5946.9	6109.0
27.5°	7588.1	7469.9	7260.5	6838.4	6429.8	6136.0	6223.8	6146.1	6075.2	6122.5	6355.5
30°	8114.9	8189.2	7922.5	7517.2	7132.2	6804.6	6821.5	6754.0	6429.8	6497.3	6635.8
32.5°	8662.0	8709.3	8560.7	8337.8	7952.8	7571.2	7432.8	7375.4	7132.2	7162.6	7027.6
35°	9117.9	9209.0	9077.3	8979.4	8868.0	8560.7	8179.1	8364.8	7973.1	7898.8	7547.6
37.5°	9536.6	9509.6	9664.9	9563.7	9540.1	9323.9	8905.2	8942.3	8678.9	8662.0	8256.8
40°	9911.5	9918.2	10131.0	10178.3	10083.7	9698.7	9090.9	9384.6	9597.4	9617.7	9097.6
42.5°	10222.2	10313.4	10495.7	10877.3	10735.4	10093.9	9283.4	9604.1	10394.4	10519.3	9894.6
45°	10492.3	10678.1	10904.3	11245.4	11164.4	10654.5	9762.9	10056.7	11245.4	11573.0	10644.3
47.5°	10509.2	10752.4	10998.9	11505.4	11606.7	10955.0	10259.3	10772.6	11920.8	12275.4	11191.4
50°	10441.7	10570.0	11063.0	11613.5	11843.1	11444.7	10955.0	11373.7	12575.9	12798.8	11468.3
52.5°	9641.3	9739.3	10728.7	11714.8	12268.6	11998.5	11876.9	12211.2	13244.6	13410.1	11728.3
55°	8037.3	8020.4	9381.3	11204.9	12464.5	12819.1	12744.8	12863.0	14017.9	14166.5	11792.5
57.5°	5497.8	5805.1	6980.2	9330.6	11265.7	12626.6	12704.2	12508.4	13116.2	13173.7	10279.5
60°	2965.0	3093.4	4038.9	6227.2	8577.6	10289.7	10492.3	10137.8	10090.5	9928.3	7338.2
62.5°	1178.6	1242.7	1779.6	3083.2	4673.8	6254.2	6689.8	6544.6	6233.9	5808.5	3799.1
65°	560.6	601.1	884.7	1442.0	2073.5	2607.0	3042.7	3177.7	2343.6	2110.7	1252.8
67.5°	381.6	412.0	645.0	824.0	739.6	773.3	1006.3	935.4	550.4	469.4	347.8
70°	290.4	310.7	516.7	560.6	330.9	233.0	260.0	243.1	226.2	229.7	226.2
72.5°	206.0	222.9	378.2	330.9	145.2	108.1	138.4	165.5	165.5	165.5	162.1
75°	125.0	141.8	219.5	128.3	57.4	57.4	87.8	111.4	118.2	121.6	114.8
77.5°	64.2	81.1	74.3	37.2	37.2	43.9	64.2	77.7	84.4	84.4	81.1
80°	13.5	13.5	13.5	20.3	37.2	47.3	64.2	70.9	81.1	81.1	74.3
82.5°	0.0	3.4	10.1	20.3	33.8	43.9	60.8	70.9	81.1	84.4	77.7
85°	0.0	3.4	6.7	13.5	23.6	27.0	23.6	20.3	20.3	20.3	20.3
87.5°	0.0	0.0	3.4	3.4	3.4	6.7	6.7	6.7	6.7	6.7	6.7
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: P652084

CATALOG NUMBER: GALN-SA8A-840-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1	4856.1
2.5°	4903.4	4913.5	4896.6	4893.3	4879.7	4920.3	4822.4	4798.7	4859.5	4802.1	4815.6
5°	4967.5	4991.2	4960.8	4910.2	4835.8	4721.0	4623.1	4494.8	4434.0	4390.1	4383.4
7.5°	5014.8	5031.7	5001.3	4839.2	4616.3	4325.9	4109.8	3951.1	3826.1	3789.0	3728.2
10°	5207.3	5210.7	5058.7	4700.8	4265.1	3883.6	3552.6	3309.4	3184.5	3106.8	3073.1
12.5°	5335.6	5328.9	5021.6	4427.3	3846.4	3339.9	2961.7	2667.8	2553.0	2515.9	2492.2
15°	5497.8	5460.6	4933.8	4147.0	3306.1	2759.0	2418.0	2215.3	2205.2	2181.6	2205.2
17.5°	5626.0	5521.4	4805.5	3637.0	2789.4	2272.7	2049.9	2063.3	2090.4	2114.0	2117.4
20°	5835.4	5619.3	4511.6	3191.3	2309.9	1948.5	1945.1	2006.0	2073.5	2100.5	2127.5
22.5°	5994.1	5659.8	4197.6	2715.1	1918.2	1816.8	1874.3	1965.4	2016.0	2043.0	2083.6
25°	6051.6	5548.4	3778.9	2238.9	1729.0	1756.0	1843.8	1904.6	1968.8	1999.1	1982.3
27.5°	6109.0	5491.0	3279.1	1843.8	1627.7	1715.6	1789.8	1850.6	1870.9	1911.3	1938.4
30°	6247.5	5291.7	2830.0	1593.9	1577.0	1688.5	1742.6	1762.8	1816.8	1840.4	1840.4
32.5°	6358.9	5214.1	2353.8	1475.8	1570.3	1702.0	1708.7	1708.7	1715.6	1698.7	1691.8
35°	6588.5	4947.3	1928.2	1404.8	1567.0	1705.4	1722.3	1664.8	1509.5	1448.7	1431.9
37.5°	6872.1	4775.1	1614.2	1388.0	1590.6	1745.9	1772.9	1556.8	1354.2	1256.2	1239.4
40°	7216.6	4653.5	1408.2	1381.2	1644.6	1840.4	1759.5	1472.3	1208.9	1067.1	1060.4
42.5°	7618.5	4542.1	1269.7	1377.8	1712.1	1938.4	1745.9	1401.4	1060.4	965.8	979.3
45°	7939.3	4481.3	1175.2	1354.2	1735.7	1995.8	1756.0	1276.5	999.6	938.8	945.5
47.5°	8189.2	4352.9	1097.5	1313.6	1732.4	2016.0	1664.8	1225.8	969.2	986.1	1003.0
50°	8196.0	4180.7	999.6	1225.8	1681.7	1979.0	1560.1	1178.6	962.4	1033.3	1067.1
52.5°	8104.8	3937.6	894.9	1100.9	1563.6	1850.6	1465.6	1158.3	932.1	925.3	965.8
55°	7780.6	3481.7	719.3	891.5	1320.4	1526.4	1381.2	1121.1	840.8	763.2	769.9
57.5°	6288.0	2495.6	530.2	638.2	935.4	1117.8	1246.1	1104.3	756.5	648.4	651.8
60°	3893.7	1415.0	388.4	435.6	577.4	678.8	1009.7	1026.6	675.4	547.1	540.3
62.5°	1999.1	699.0	300.6	307.3	354.6	398.5	692.3	861.1	611.2	520.1	520.1
65°	668.7	344.5	263.4	236.4	236.4	246.5	418.7	597.7	516.7	435.6	435.6
67.5°	287.0	256.7	229.7	206.0	189.1	179.0	236.4	347.8	385.0	330.9	317.5
70°	222.9	216.1	199.2	172.2	148.6	135.1	138.4	179.0	219.5	212.8	206.0
72.5°	165.5	165.5	158.7	135.1	114.8	97.9	91.2	94.5	104.7	108.1	111.4
75°	114.8	118.2	118.2	104.7	84.4	70.9	60.8	50.6	40.5	33.8	30.4
77.5°	77.7	81.1	87.8	77.7	64.2	47.3	37.2	27.0	16.9	6.7	6.7
80°	67.5	77.7	84.4	77.7	67.5	50.6	37.2	20.3	10.1	0.0	0.0
82.5°	70.9	77.7	87.8	74.3	64.2	47.3	37.2	23.6	10.1	3.4	0.0
85°	16.9	16.9	20.3	23.6	30.4	33.8	27.0	16.9	10.1	3.4	0.0
87.5°	6.7	6.7	6.7	6.7	6.7	3.4	3.4	3.4	3.4	0.0	0.0
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)