

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: P457433

Luminaire Tested: **GALN-SA8D-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56416 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

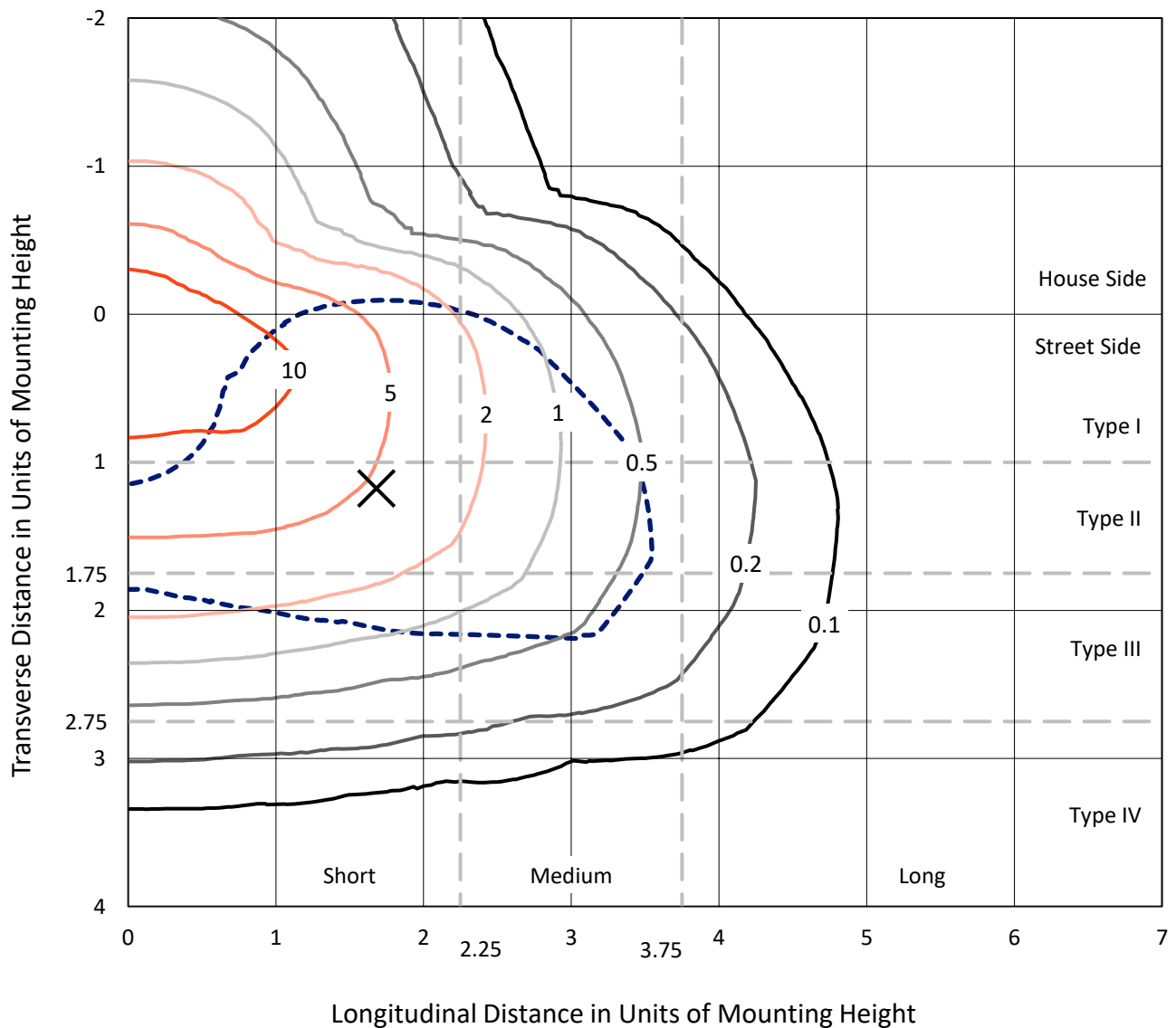
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457433
 CATALOG NUMBER: GALN-SA8D-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

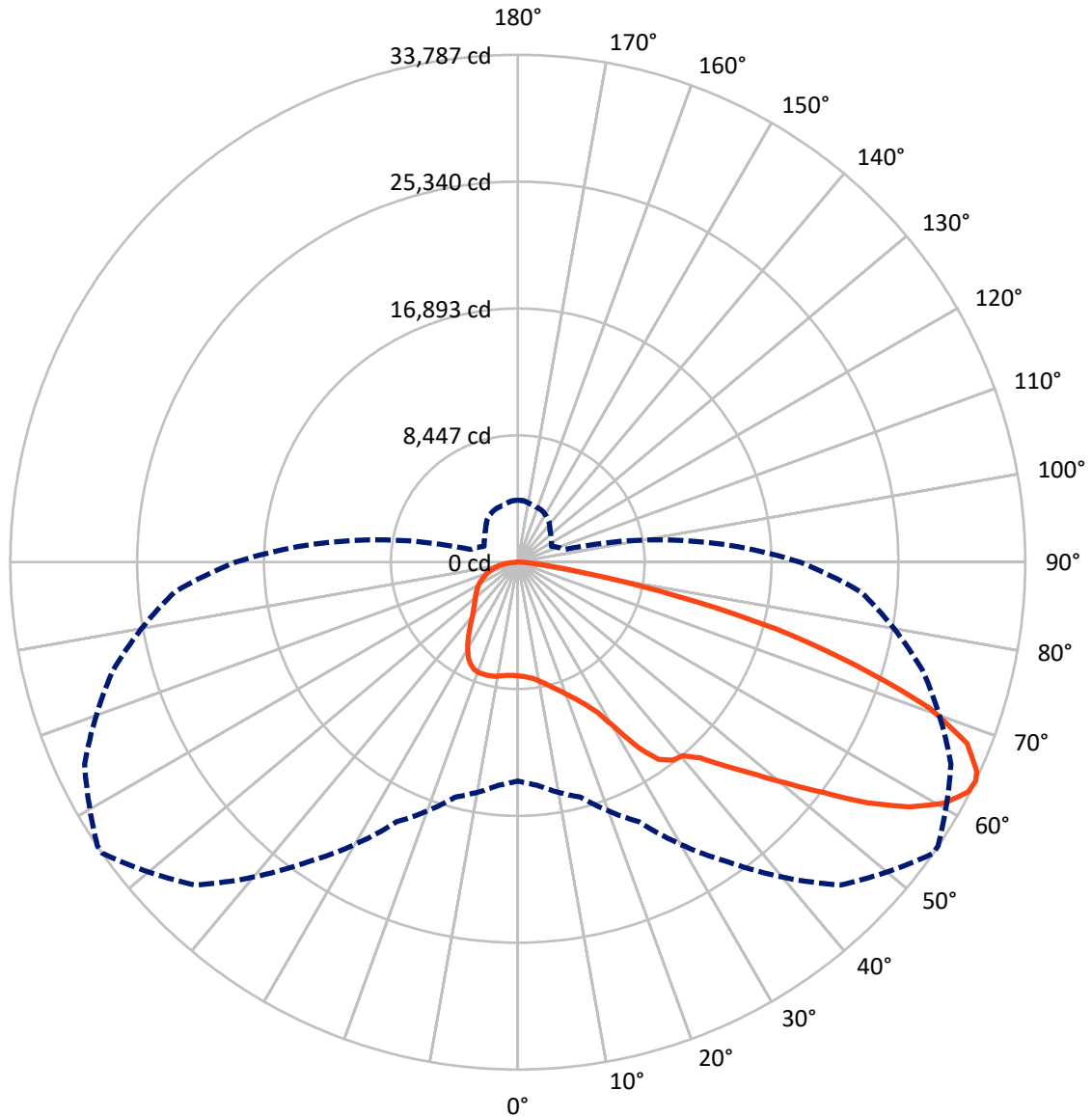
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type III - Short - N/A

REPORT NUMBER: P457433
CATALOG NUMBER: GALN-SA8D-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P457433

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13704.6	0.0	13704.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	42711.4	0.0	42711.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	56416.0	0.0	56416.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	736.3	1.3
10°-20°	2323.2	4.1
20°-30°	4136.0	7.3
30°-40°	6363.6	11.3
40°-50°	9020.9	16.0
50°-60°	13057.6	23.1
60°-70°	13513.2	24.0
70°-80°	6328.3	11.2
80°-90°	936.8	1.7
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°	56416.0	100.0
0°-180°	56416.0	100.0

Coefficient of Utilization



REPORT NUMBER: P457433

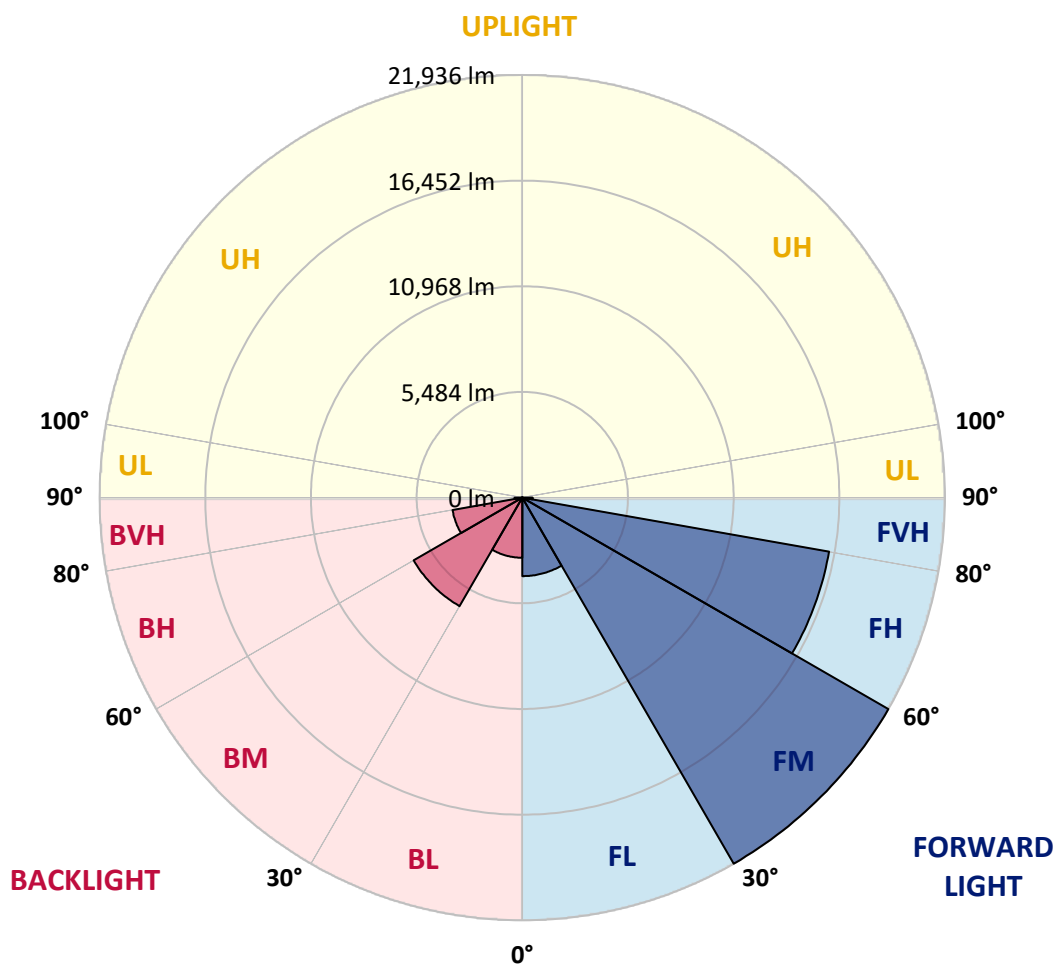
CATALOG NUMBER: GALN-SA8D-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4074.1	7.2			
FM	(30°-60°)	21936.1	38.9			
FH	(60°-80°)	16164.8	28.7			G5
FVH	(80°-90°)	536.4	1.0			G4/750
BL	(0°-30°)	3121.4	5.5	B4/5000		
BM	(30°-60°)	6506.1	11.5	B4/8500		
BH	(60°-80°)	3676.7	6.5	B4/5000		G4/5000
BVH	(80°-90°)	400.4	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





REPORT NUMBER: P457433

CATALOG NUMBER: GALN-SA8D-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3
2.5°	7654.2	7651.1	7660.5	7651.1	7657.4	7635.4	7625.9	7632.2	7622.8	7607.1	7578.8
5°	7748.6	7745.4	7748.6	7736.0	7742.3	7729.7	7707.7	7714.0	7698.3	7663.7	7622.8
7.5°	7909.0	7896.4	7896.4	7893.2	7880.7	7861.8	7846.1	7839.8	7824.0	7780.0	7717.1
10°	8116.5	8116.5	8119.6	8094.5	8110.2	8075.6	8059.9	8056.8	8003.3	7946.7	7858.6
12.5°	8390.1	8405.8	8396.4	8383.8	8377.5	8364.9	8311.5	8324.1	8264.3	8166.8	8059.9
15°	8729.7	8754.9	8739.2	8732.9	8717.1	8670.0	8648.0	8638.5	8559.9	8418.4	8276.9
17.5°	9179.4	9148.0	9135.4	9119.7	9053.6	9019.0	8981.3	8975.0	8905.8	8739.2	8519.0
20°	9572.5	9616.5	9591.4	9575.7	9509.6	9443.6	9415.3	9405.8	9346.1	9163.7	8811.5
22.5°	10041.1	10050.5	10059.9	10022.2	9990.8	9940.4	9890.1	9874.4	9852.4	9663.7	9232.9
25°	10541.1	10578.8	10547.4	10509.6	10471.9	10468.7	10515.9	10509.6	10500.2	10317.8	9792.6
27.5°	11355.6	11390.2	11399.6	11358.7	11214.0	11226.6	11333.5	11368.1	11512.8	11210.9	10512.8
30°	11814.7	11849.3	11927.9	12082.0	12311.6	12512.8	12770.7	12849.3	12987.7	12418.5	11368.1
32.5°	12097.7	12110.3	12251.8	12538.0	13226.7	13978.2	14679.5	14707.8	14795.9	13997.1	12151.2
35°	12544.3	12553.7	12666.9	12981.4	13789.6	15041.2	16126.1	16160.7	16088.4	14487.7	12516.0
37.5°	13094.6	13119.7	13192.1	13453.1	14418.5	15931.1	16726.7	16701.6	16060.0	14877.6	13160.6
40°	13896.5	13896.5	13811.6	14163.8	15082.0	16440.6	16937.4	16893.4	16723.6	16006.6	14141.8
42.5°	14604.0	14591.5	14792.7	15031.7	15912.2	17226.7	17821.1	17893.4	18173.3	17424.9	15258.1
45°	15525.4	15582.1	15695.3	16129.2	17324.2	18569.5	19336.8	19406.0	19802.3	19094.7	16563.2
47.5°	16456.3	16475.2	16830.5	17409.1	19072.7	20390.3	21019.3	21132.5	21494.1	21047.6	17968.9
50°	17116.7	17295.9	17865.1	18777.1	20874.6	22610.5	23101.1	23236.3	23874.7	23173.4	19607.3
52.5°	17814.8	17990.9	18685.9	20075.8	22943.8	24881.0	25484.8	25576.0	26239.5	25324.4	21283.4
55°	18412.3	18575.8	19365.1	21226.8	24591.7	27198.6	28293.0	28186.1	28503.7	26981.6	22575.9
57.5°	18509.8	18641.9	19635.6	21962.7	25830.7	29186.1	30755.3	30818.2	30450.3	28220.7	23642.0
60°	17755.1	18025.5	19167.0	21884.1	26387.3	30569.8	32591.8	32635.8	31591.8	28855.9	24066.5
62.5°	16418.5	16390.2	17770.8	20619.9	25607.4	30884.2	33673.6	33626.4	32038.3	28550.9	23654.5
64°	14572.6	14912.2	16201.6	19066.4	24349.5	30399.9	33786.8	33761.6	31824.5	27915.6	22953.3
65°	13446.8	13427.9	14701.5	17795.9	23097.9	29670.4	33585.5	33550.9	31377.9	27346.4	22409.2
67.5°	9707.7	9751.8	11009.6	13733.0	18777.1	26818.1	32274.2	32145.3	29616.9	25459.6	20340.0
70°	5880.6	5905.8	6893.2	9110.2	13478.2	21679.7	29091.7	29098.0	26921.9	22641.9	17311.6
72.5°	3097.5	3163.6	3559.8	5173.1	8185.7	15211.0	23601.1	24160.8	23113.6	19324.3	13676.4
75°	1723.3	1732.7	2012.6	2550.4	4176.2	8512.7	17739.3	17899.7	18299.1	15553.8	10113.4
77.5°	1314.5	1333.4	1421.4	1647.8	2273.6	3946.6	10736.1	11541.1	12896.5	10965.6	5770.5
80°	1066.1	1084.9	1160.4	1295.6	1512.6	1871.1	4987.5	5421.5	6902.6	4868.0	2251.6
82.5°	830.2	817.6	915.1	1003.2	1100.6	1106.9	2047.2	2264.2	2811.4	2094.4	974.9
85°	616.4	616.4	695.0	676.1	710.7	647.8	902.5	996.9	1125.8	890.0	452.8
87.5°	245.3	270.4	456.0	408.8	317.6	254.7	333.3	352.2	389.9	349.1	188.7
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: P457433

CATALOG NUMBER: GALN-SA8D-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3	7569.3
2.5°	7581.9	7591.3	7569.3	7553.6	7547.3	7537.9	7528.4	7531.6	7544.2	7556.7	7553.6
5°	7619.6	7622.8	7585.0	7566.2	7553.6	7541.0	7541.0	7550.5	7575.6	7594.5	7594.5
7.5°	7714.0	7714.0	7660.5	7625.9	7607.1	7585.0	7578.8	7581.9	7600.8	7625.9	7629.1
10°	7861.8	7849.2	7780.0	7726.6	7692.0	7638.5	7591.3	7566.2	7575.6	7591.3	7591.3
12.5°	8041.0	8006.4	7918.4	7846.1	7761.2	7660.5	7563.0	7512.7	7509.6	7525.3	7519.0
15°	8232.9	8195.1	8072.5	7940.4	7792.6	7644.8	7528.4	7456.1	7399.5	7383.8	7418.4
17.5°	8456.1	8377.5	8207.7	8025.3	7805.2	7613.4	7431.0	7283.2	7182.5	7154.2	7163.7
20°	8726.6	8622.8	8393.2	8107.1	7795.7	7500.1	7217.1	7019.0	6855.5	6805.2	6811.4
22.5°	9100.8	8921.6	8585.1	8148.0	7717.1	7286.3	6893.2	6635.3	6437.2	6358.6	6405.8
25°	9525.3	9330.4	8767.5	8138.5	7512.7	6943.5	6509.6	6173.1	5993.8	5877.5	5902.6
27.5°	10110.3	9764.3	8962.4	8053.6	7220.3	6525.3	6022.1	5704.5	5541.0	5481.2	5509.5
30°	10858.7	10327.2	9173.1	7824.0	6758.0	5997.0	5531.6	5324.0	5226.5	5151.0	5176.2
32.5°	11399.6	10723.5	9220.3	7437.2	6258.0	5515.8	5198.2	5044.1	4937.2	4864.9	4880.6
35°	11786.4	11060.0	9198.3	6962.4	5736.0	5119.6	4934.1	4808.3	4635.3	4478.1	4449.8
37.5°	12305.3	11481.3	9037.9	6443.5	5220.2	4852.3	4720.2	4487.5	4239.1	4028.4	4018.9
40°	13100.9	11975.1	8695.1	5833.4	4780.0	4654.2	4493.8	4191.9	3924.6	3754.8	3742.2
42.5°	13921.6	12431.1	8229.7	5191.9	4418.3	4446.6	4251.7	3952.9	3789.4	3679.3	3666.7
45°	14924.8	12924.8	7726.6	4635.3	4151.0	4251.7	4041.0	3868.0	3770.5	3698.2	3679.3
47.5°	16009.7	13431.1	7160.5	4135.3	3924.6	4072.4	3952.9	3874.3	3820.8	3770.5	3748.5
50°	17179.6	13997.1	6629.1	3732.8	3720.2	3886.9	3943.5	3915.2	3883.7	3868.0	3849.1
52.5°	18462.6	14575.7	6182.5	3449.8	3540.9	3754.8	3946.6	3968.6	3968.6	3959.2	3946.6
55°	19330.6	14978.3	5729.7	3220.2	3358.6	3647.9	3940.3	4025.2	4056.7	4044.1	4031.5
57.5°	19972.1	15198.4	5160.5	3022.1	3204.5	3544.1	3905.7	4031.5	4063.0	4078.7	4072.4
60°	20104.2	14994.0	4415.2	2814.5	3037.8	3393.1	3779.9	3937.2	3978.1	4075.5	4085.0
62.5°	19509.8	14365.0	3673.0	2610.1	2833.4	3163.6	3610.1	3830.3	3912.0	4063.0	4078.7
64°	18780.2	13660.6	3261.1	2481.2	2701.3	3034.6	3525.2	3802.0	3908.9	4110.1	4122.7
65°	18245.6	13148.0	3003.2	2399.4	2616.4	2949.7	3478.1	3811.4	3937.2	4182.5	4201.3
67.5°	16277.0	11383.9	2484.3	2207.6	2415.1	2805.1	3487.5	3890.0	3930.9	4210.8	4207.6
70°	13468.8	9063.1	2081.8	2031.5	2220.2	2688.7	3449.8	3764.2	3767.4	3952.9	3908.9
72.5°	10085.1	6698.2	1805.1	1849.1	2003.2	2412.0	3257.9	3594.4	3540.9	3566.1	3522.1
75°	6927.8	4430.9	1553.5	1654.1	1776.8	2132.1	2987.5	3264.2	3179.3	3147.9	3116.4
77.5°	3698.2	2449.7	1292.5	1462.3	1544.1	1842.8	2607.0	2874.3	2786.2	2663.6	2622.7
80°	1496.9	1154.1	1040.9	1210.7	1257.9	1484.3	2169.9	2336.5	2270.5	2056.6	1987.5
82.5°	751.6	691.8	817.6	952.8	956.0	1059.8	1613.2	1770.5	1622.7	1361.7	1301.9
85°	393.1	405.7	562.9	669.8	591.2	572.3	968.6	1072.3	984.3	855.4	770.5
87.5°	141.5	163.5	295.6	292.5	207.6	110.1	213.8	103.8	56.6	34.6	44.0
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)