

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: P457435

Luminaire Tested: **GALN-SA8D-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457435
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
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-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58218 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
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

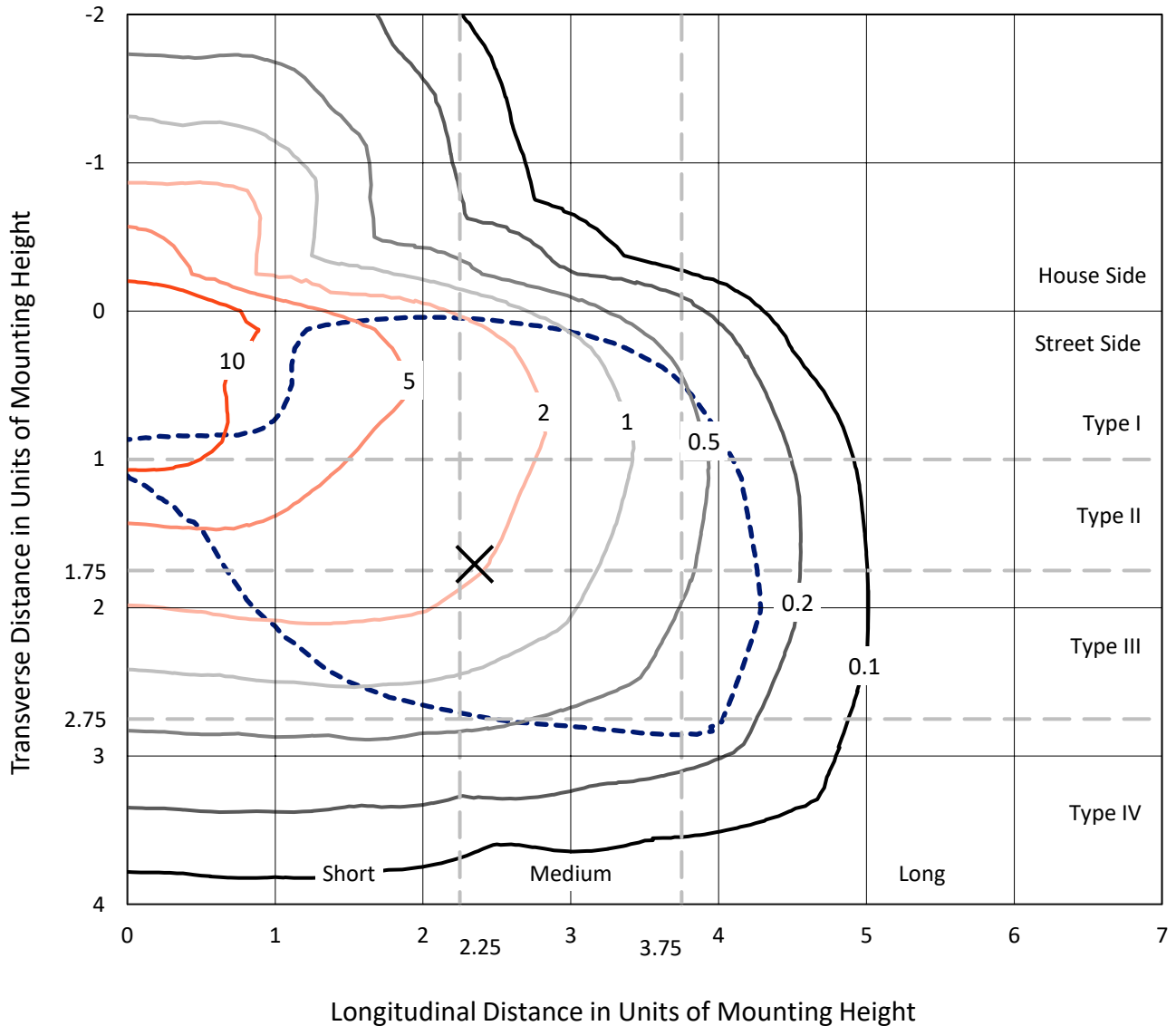




REPORT NUMBER: P457435
 CATALOG NUMBER: GALN-SA8D-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

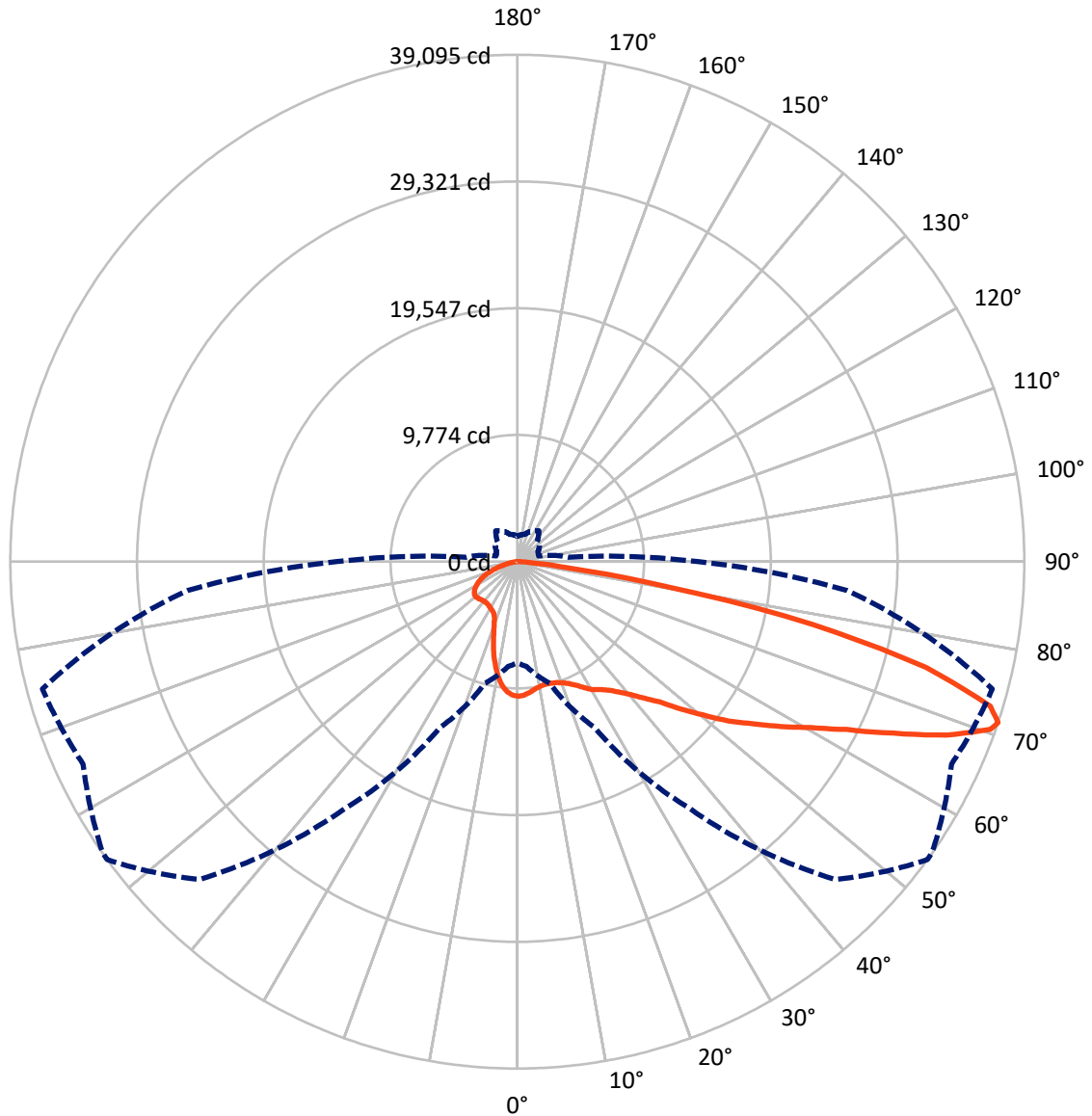
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P457435
CATALOG NUMBER: GALN-SA8D-730-U-T3R

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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CATALOG NUMBER: GALN-SA8D-730-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10510.9	0.0	10510.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	47707.1	0.0	47707.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	58218.0	0.0	58218.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	925.6	1.6
10°-20°	2444.1	4.2
20°-30°	4069.6	7.0
30°-40°	6017.6	10.3
40°-50°	8476.0	14.6
50°-60°	11349.7	19.5
60°-70°	14305.4	24.6
70°-80°	9770.6	16.8
80°-90°	859.3	1.5
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°	58218.0	100.0
0°-180°	58218.0	100.0



REPORT NUMBER: P457435

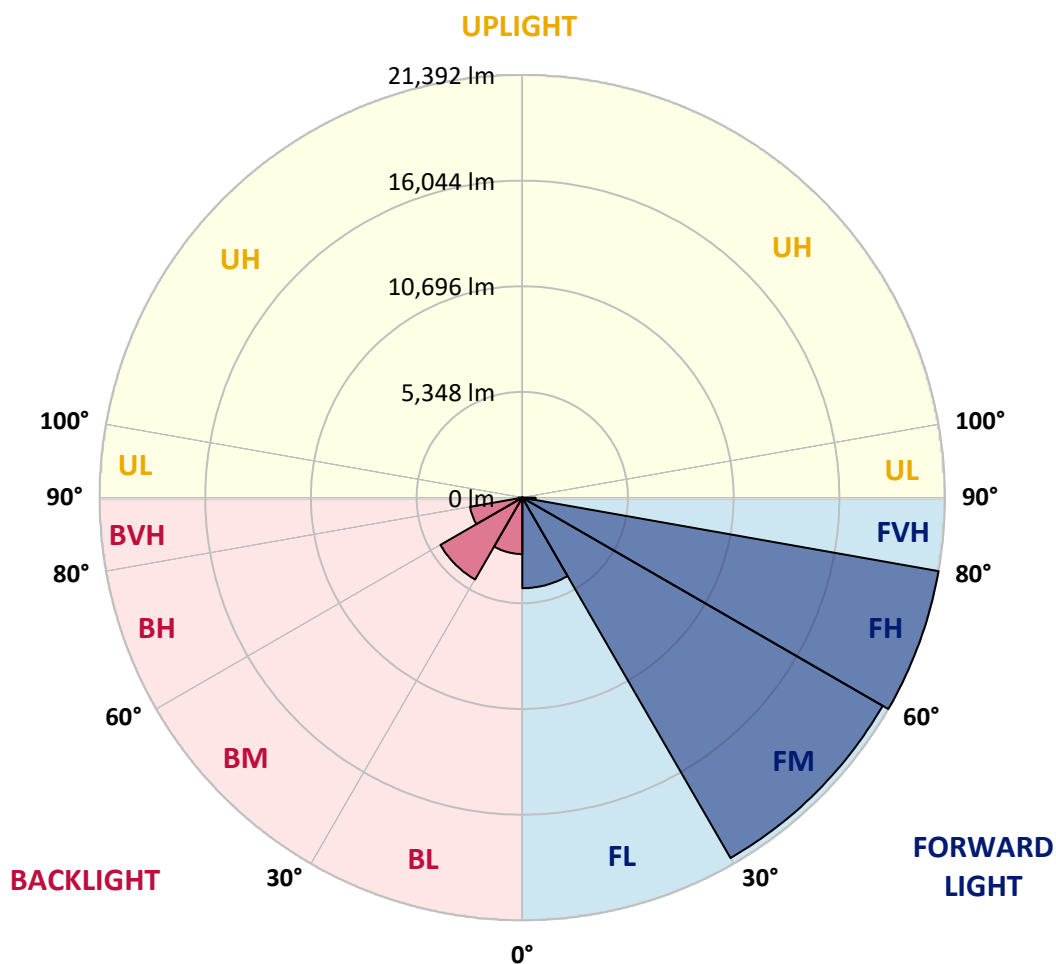
CATALOG NUMBER: GALN-SA8D-730-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4582.7	7.9			
FM	(30°-60°)	21061.2	36.2			
FH	(60°-80°)	21391.6	36.7			G5
FVH	(80°-90°)	671.6	1.2			G4/750
BL	(0°-30°)	2856.7	4.9	B4/5000		
BM	(30°-60°)	4782.2	8.2	B3/5000		
BH	(60°-80°)	2684.5	4.6	B4/5000		G4/5000
BVH	(80°-90°)	187.6	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium





REPORT NUMBER: P457435

CATALOG NUMBER: GALN-SA8D-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0
2.5°	10034.7	10081.9	10094.5	10125.9	10192.0	10245.4	10298.9	10292.6	10368.1	10399.5	10427.8
5°	9588.2	9600.8	9647.9	9710.8	9827.2	9975.0	10119.7	10122.8	10308.3	10456.1	10528.5
7.5°	9261.1	9302.0	9333.5	9399.5	9522.2	9682.5	9912.1	9931.0	10261.2	10553.6	10707.7
10°	9047.3	9094.5	9129.1	9210.8	9333.5	9512.7	9761.2	9795.7	10226.6	10707.7	10978.2
12.5°	8852.3	8899.5	8931.0	9037.9	9198.3	9418.4	9698.3	9739.1	10239.2	10887.0	11273.8
15°	8971.8	9009.6	8997.0	9028.4	9135.4	9386.9	9723.4	9764.3	10286.3	11059.9	11566.2
17.5°	9503.3	9534.7	9431.0	9311.5	9261.1	9446.7	9802.0	9846.1	10380.7	11239.2	11865.0
20°	10286.3	10371.2	10144.8	9877.5	9635.4	9660.5	9965.6	10012.7	10512.7	11418.4	12170.0
22.5°	11305.2	11368.1	11091.4	10651.1	10204.6	9975.0	10210.8	10239.2	10710.9	11651.1	12503.3
25°	12503.3	12541.1	12157.4	11591.4	10946.7	10512.7	10547.3	10597.6	11037.9	11915.3	12798.9
27.5°	13666.9	13786.4	13343.0	12651.1	11802.1	11078.8	11009.6	11041.1	11393.3	12063.1	13003.3
30°	15047.4	15038.0	14569.4	13767.5	12679.4	11695.1	11446.7	11440.4	11585.1	12135.4	13151.1
32.5°	16148.0	16277.0	15817.9	14943.6	13682.6	12333.5	11748.6	11736.0	11732.9	12261.2	13371.3
35°	17399.6	17418.5	16997.1	16116.6	14767.5	13135.4	12170.0	12107.1	12034.8	12531.6	13670.0
37.5°	18519.2	18607.2	18220.4	17233.0	15833.6	13968.8	12748.6	12707.7	12487.6	13000.2	14148.0
40°	19393.4	19459.4	19226.7	18286.4	16883.9	14868.2	13484.5	13409.0	13141.7	13767.5	14786.4
42.5°	19679.5	19814.8	19906.0	19443.7	18091.5	15934.2	14390.2	14295.8	14091.4	14931.0	15522.3
45°	19701.6	19915.4	20396.5	20418.6	19305.3	17211.0	15446.8	15380.7	15365.0	16421.6	16556.9
47.5°	19534.9	19751.9	20560.1	20997.2	20387.1	18500.3	16972.0	16868.2	16877.6	18264.4	17717.3
50°	19132.4	19390.2	20371.4	21368.3	21233.0	19839.9	18582.0	18547.5	18742.4	20368.2	18921.7
52.5°	18374.5	18685.8	20176.4	21601.0	21862.0	20994.0	20412.3	20314.8	20808.5	22651.3	20239.3
55°	16277.0	16745.5	19462.6	21729.9	22459.5	22097.8	22060.1	22236.2	22890.3	25141.9	21689.0
57.5°	15182.6	15534.8	17912.2	21751.9	23214.2	23380.9	23984.6	24028.7	25173.3	27786.6	23327.4
60°	14585.1	14896.5	17063.2	21607.3	24267.7	24968.9	25953.2	26110.5	27402.9	30651.4	25025.5
62.5°	14063.1	14330.4	16553.7	21107.2	25456.4	27324.3	28503.6	28579.1	29934.4	33815.0	26701.7
65°	12833.5	13138.6	15528.5	20607.2	26481.5	30267.8	31887.3	31799.2	32629.4	36544.6	27752.0
67.5°	11176.3	11563.1	13613.4	18880.8	26987.8	33484.8	35698.7	35588.6	35289.9	38333.9	28053.9
70°	9059.9	9267.4	11163.7	15896.5	24965.8	35173.5	38708.1	38591.8	36937.7	38569.8	26626.2
71°	7795.7	8119.6	9720.3	14119.7	23283.4	34657.8	39094.9	39063.5	36940.8	37918.8	25550.7
72.5°	6085.0	6283.1	7698.2	10940.4	19789.6	31726.9	38139.0	38258.5	36138.9	36110.6	23333.7
75°	3849.1	3937.2	4830.3	6440.4	10858.7	22468.9	32557.1	32881.0	32088.5	29557.1	17352.5
77.5°	2235.9	2349.1	2893.1	3795.7	4691.9	12195.2	23296.0	23648.2	22295.9	16273.8	7103.9
80°	1301.9	1427.7	1905.7	2204.4	2154.1	4525.2	11861.8	12462.5	9654.2	4110.1	1993.7
82.5°	723.3	808.2	1339.6	1342.8	1147.8	1478.0	3732.8	3905.7	2754.8	1657.3	814.5
85°	525.2	594.3	864.8	783.0	550.3	635.2	1298.8	1361.7	1113.2	698.1	264.2
87.5°	185.5	264.2	474.9	377.4	150.9	132.1	374.2	305.0	283.0	195.0	59.7
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: P457435
 CATALOG NUMBER: GALN-SA8D-730-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0	10387.0
2.5°	10443.6	10449.8	10418.4	10361.8	10305.2	10232.9	10151.1	10088.2	10059.9	10056.8	10053.6
5°	10556.8	10572.5	10453.0	10276.9	10081.9	9842.9	9638.5	9405.8	9346.1	9251.7	9280.0
7.5°	10739.2	10729.7	10493.9	10119.7	9663.7	9157.4	8729.7	8481.3	8223.4	8151.1	8154.2
10°	11000.2	10940.4	10493.9	9798.9	9037.9	8286.3	7688.8	7311.4	7107.0	6937.2	6874.3
12.5°	11276.9	11126.0	10393.2	9349.2	8232.8	7311.4	6669.9	6160.5	6028.4	5890.0	5893.2
15°	11541.1	11289.5	10195.1	8717.1	7364.9	6270.5	5647.9	5342.8	5302.0	5317.7	5314.5
17.5°	11780.1	11405.8	9893.2	8012.7	6352.3	5377.4	5047.2	5069.3	5179.3	5257.9	5267.4
20°	12022.2	11475.0	9443.5	7069.3	5396.3	4836.6	4849.1	5022.1	5188.8	5295.7	5311.4
22.5°	12251.8	11506.5	8915.2	6157.3	4704.5	4607.0	4792.5	4978.1	5141.6	5245.4	5261.1
25°	12402.7	11434.1	8166.8	5204.5	4364.8	4525.2	4720.2	4877.4	5015.8	5122.7	5147.9
27.5°	12443.6	11201.4	7239.1	4434.0	4207.6	4446.6	4625.9	4742.2	4849.1	4949.8	4968.6
30°	12421.6	10858.7	6220.2	3981.2	4116.4	4355.4	4493.8	4578.7	4707.6	4786.2	4802.0
32.5°	12387.0	10459.3	5157.3	3739.1	4040.9	4270.5	4352.3	4427.7	4424.6	4393.1	4415.2
35°	12399.6	9981.3	4295.7	3594.4	3974.9	4207.6	4276.8	4182.5	3912.0	3899.4	3886.9
37.5°	12465.6	9509.6	3669.9	3493.8	3940.3	4198.2	4235.9	3801.9	3562.9	3452.9	3424.6
40°	12635.4	8959.3	3257.9	3418.3	3937.2	4270.5	4050.4	3610.1	3151.0	2937.2	2921.4
42.5°	12861.8	8418.4	3006.3	3371.1	3974.9	4380.6	3974.9	3339.7	2839.7	2713.9	2695.0
45°	13198.3	7798.9	2868.0	3349.1	4031.5	4421.5	3949.7	3141.6	2713.9	2613.2	2613.2
47.5°	13578.8	7207.7	2792.5	3333.4	4103.8	4393.1	3726.5	3078.7	2654.1	2666.7	2726.5
50°	13956.2	6695.1	2735.9	3298.8	4166.7	4377.4	3635.3	3075.5	2669.9	2830.2	2937.2
52.5°	14393.3	6333.4	2666.7	3242.2	4166.7	4276.8	3607.0	3138.4	2713.9	2761.0	2808.2
55°	14921.6	6220.2	2578.7	3119.5	4091.3	4025.2	3591.3	3229.6	2745.3	2635.3	2654.1
57.5°	15619.7	6402.6	2493.7	2965.5	3918.3	3764.2	3585.0	3254.8	2673.0	2581.8	2562.9
60°	16431.1	6764.3	2468.6	2808.2	3682.4	3540.9	3547.2	3182.4	2572.4	2478.0	2493.7
62.5°	17000.3	6981.2	2452.9	2688.7	3424.6	3295.6	3456.0	3094.4	2528.3	2446.6	2462.3
65°	17000.3	6717.1	2308.2	2506.3	3091.2	3000.0	3346.0	2984.3	2471.7	2377.4	2361.7
67.5°	16355.6	5946.6	2088.1	2232.7	2723.3	2663.6	3191.9	2852.2	2386.8	2314.5	2276.8
70°	14676.3	4509.5	1811.3	1912.0	2257.9	2311.4	2993.8	2673.0	2245.3	2157.3	2100.7
71°	13937.3	3927.7	1695.0	1748.5	2078.6	2157.3	2899.4	2597.5	2182.4	2056.6	1956.0
72.5°	12512.8	3308.2	1518.9	1540.9	1776.8	1918.3	2701.3	2452.9	2062.9	1883.7	1770.5
75°	9506.4	2415.1	1223.3	1210.7	1314.5	1522.0	2286.2	2185.6	1808.2	1566.1	1500.0
77.5°	4107.0	1314.5	915.1	924.5	893.1	1154.1	1798.8	1877.4	1550.3	1273.6	1213.9
80°	1245.3	757.9	625.8	638.4	597.5	773.6	1267.3	1471.7	1245.3	990.6	908.8
82.5°	638.4	452.8	427.7	421.4	380.5	437.1	767.3	1006.3	890.0	619.5	547.2
85°	276.7	242.1	210.7	204.4	179.2	157.2	273.6	503.2	471.7	345.9	330.2
87.5°	69.2	62.9	40.9	37.7	22.0	3.1	0.0	0.0	0.0	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)