

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: P458363

Luminaire Tested: **GALN-SA9D-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458363
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-SA9D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 65359 lumens
Efficiency: N/A
Efficacy: 118.4 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

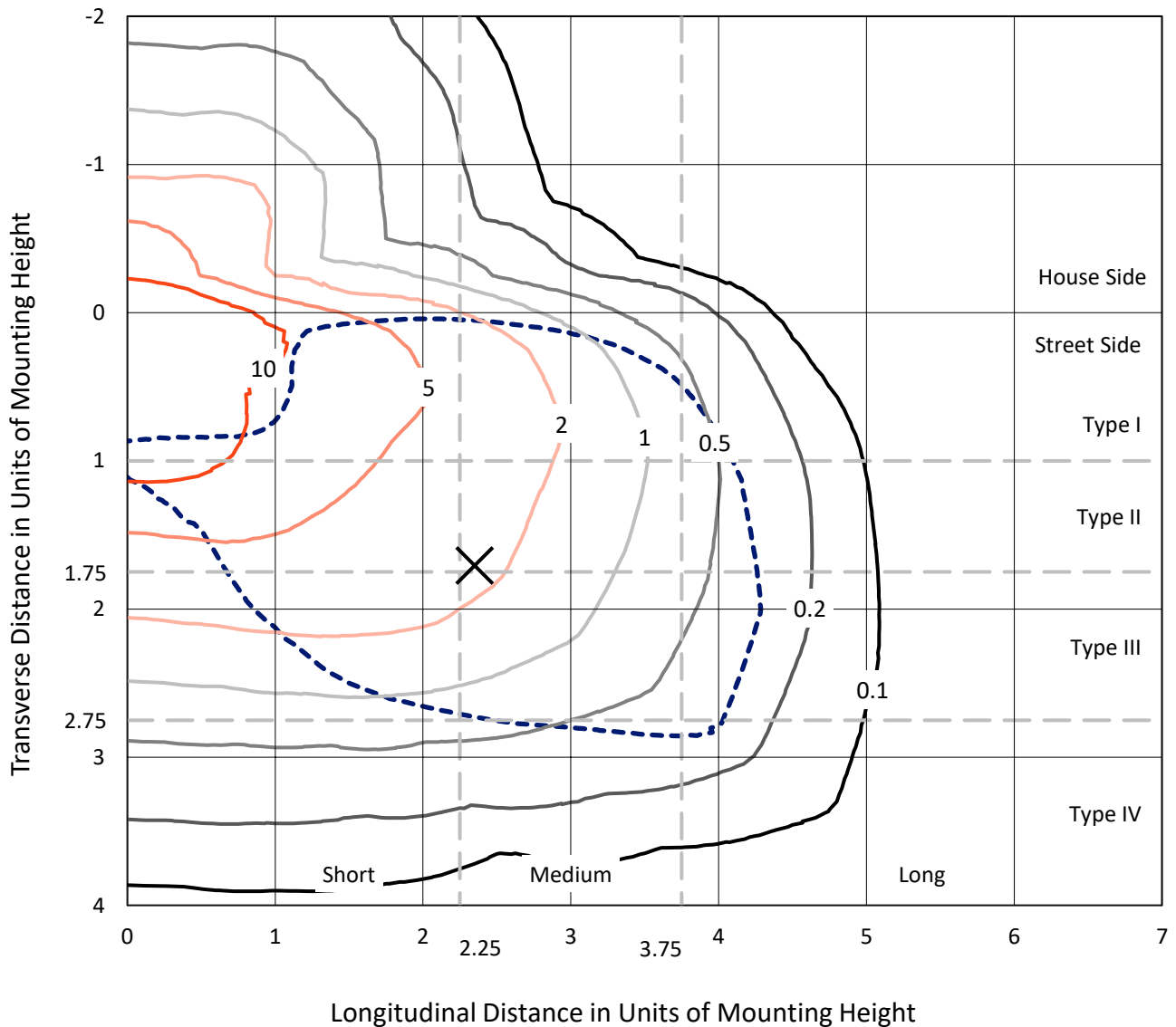
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

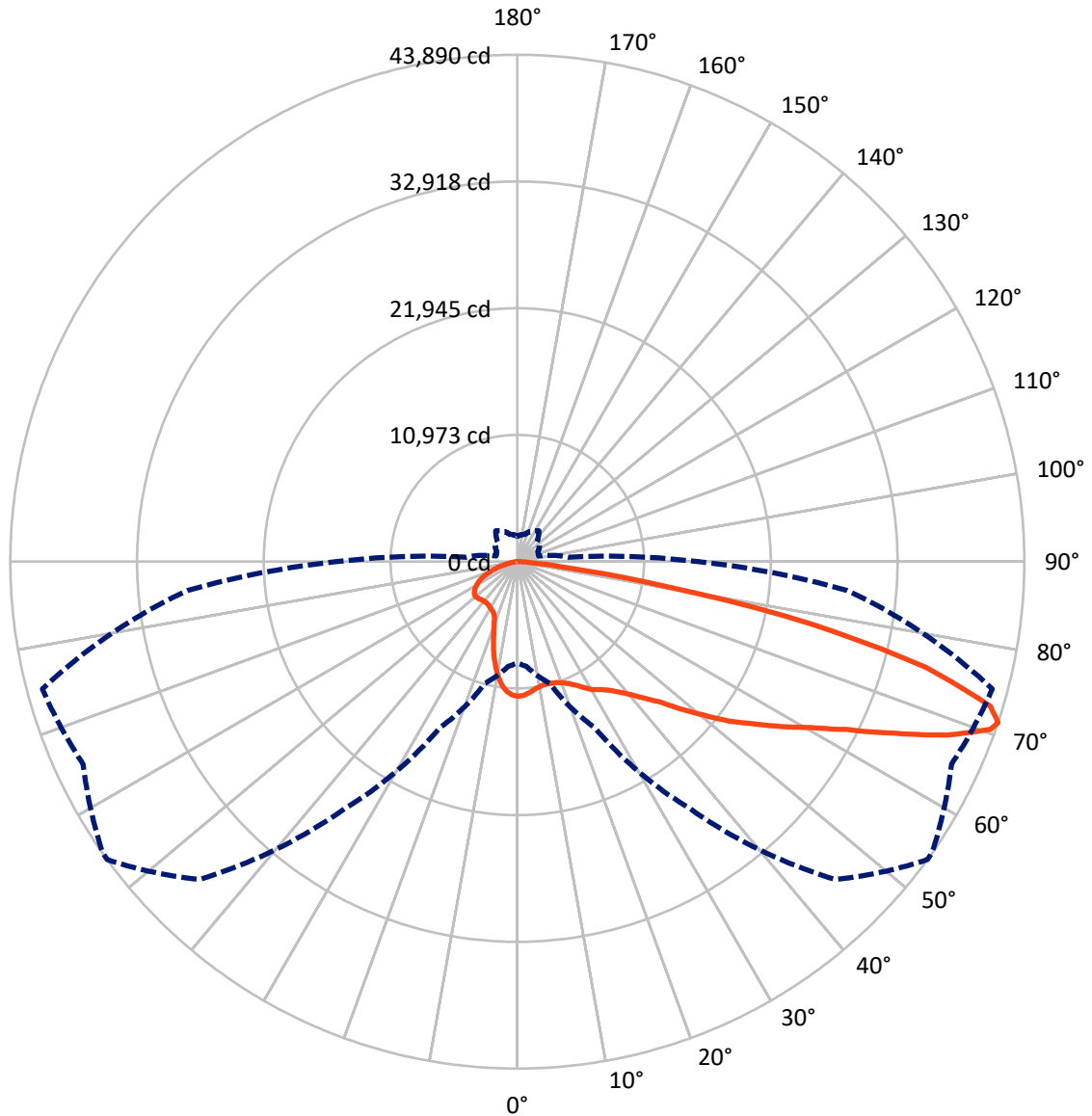
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11800.2	0.0	11800.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	53558.9	0.0	53558.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	65359.0	0.0	65359.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1039.2	1.6
10°-20°	2743.9	4.2
20°-30°	4568.8	7.0
30°-40°	6755.7	10.3
40°-50°	9515.7	14.6
50°-60°	12741.9	19.5
60°-70°	16060.2	24.6
70°-80°	10969.0	16.8
80°-90°	964.7	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°	65359.0	100.0
0°-180°	65359.0	100.0

Coefficient of Utilization



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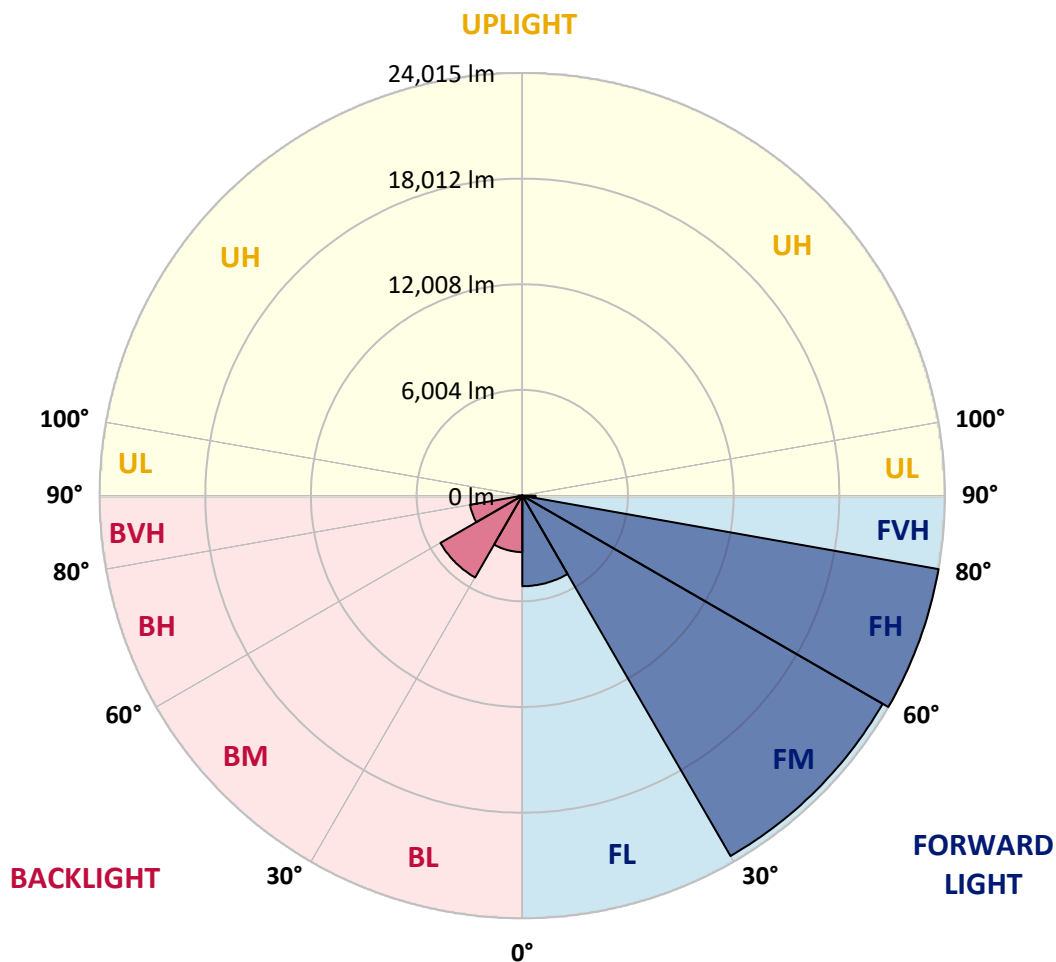
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5144.8	7.9			
FM	(30°-60°)	23644.5	36.2			
FH	(60°-80°)	24015.5	36.7			G5
FVH	(80°-90°)	754.0	1.2			G5
BL	(0°-30°)	3207.1	4.9	B4/5000		
BM	(30°-60°)	5368.7	8.2	B4/8500		
BH	(60°-80°)	3013.7	4.6	B4/5000		G4/5000
BVH	(80°-90°)	210.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0
2.5°	11265.6	11318.6	11332.7	11368.0	11442.1	11502.1	11562.2	11555.1	11639.8	11675.1	11706.9
5°	10764.3	10778.4	10831.4	10902.0	11032.6	11198.5	11360.9	11364.5	11572.8	11738.7	11819.9
7.5°	10397.1	10443.0	10478.3	10552.5	10690.1	10870.2	11127.9	11149.1	11519.8	11848.1	12021.1
10°	10157.0	10210.0	10248.8	10340.6	10478.3	10679.6	10958.5	10997.3	11481.0	12021.1	12324.7
12.5°	9938.2	9991.1	10026.4	10146.5	10326.5	10573.6	10887.8	10933.7	11495.1	12222.4	12656.6
15°	10072.3	10114.7	10100.6	10135.9	10255.9	10538.3	10916.1	10962.0	11548.0	12416.5	12984.9
17.5°	10669.0	10704.3	10587.8	10453.6	10397.1	10605.4	11004.4	11053.8	11654.0	12617.8	13320.3
20°	11548.0	11643.4	11389.2	11089.1	10817.2	10845.5	11187.9	11240.9	11802.2	12819.0	13662.8
22.5°	12691.9	12762.5	12451.8	11957.6	11456.2	11198.5	11463.3	11495.1	12024.6	13080.2	14037.0
25°	14037.0	14079.4	13648.6	13013.2	12289.4	11802.2	11841.1	11897.6	12391.8	13376.8	14368.9
27.5°	15343.3	15477.4	14979.6	14202.9	13249.7	12437.7	12360.0	12395.3	12790.8	13542.7	14598.3
30°	16893.1	16882.5	16356.5	15456.2	14234.7	13129.7	12850.8	12843.7	13006.1	13623.9	14764.3
32.5°	18128.8	18273.5	17758.1	16776.6	15360.9	13846.4	13189.7	13175.6	13172.0	13765.2	15011.4
35°	19533.9	19555.1	19082.0	18093.5	16578.9	14746.6	13662.8	13592.2	13511.0	14068.8	15346.8
37.5°	20790.7	20889.6	20455.3	19346.8	17775.7	15682.2	14312.4	14266.5	14019.3	14594.8	15883.4
40°	21772.2	21846.3	21585.1	20529.5	18954.9	16691.9	15138.5	15053.8	14753.7	15456.2	16600.1
42.5°	22093.4	22245.2	22347.6	21828.7	20310.6	17888.7	16155.3	16049.3	15819.9	16762.5	17426.2
45°	22118.1	22358.2	22898.4	22923.1	21673.3	19322.0	17341.5	17267.3	17249.7	18435.9	18587.7
47.5°	21931.0	22174.6	23082.0	23572.7	22887.8	20769.5	19053.7	18937.2	18947.8	20504.7	19890.4
50°	21479.1	21768.6	22870.1	23989.3	23837.5	22273.5	20861.3	20822.5	21041.4	22866.6	21242.6
52.5°	20628.3	20977.8	22651.2	24250.5	24543.6	23569.2	22916.0	22806.6	23360.9	25429.7	22721.9
55°	18273.5	18799.5	21849.8	24395.3	25214.3	24808.3	24766.0	24963.7	25698.0	28225.8	24349.4
57.5°	17044.9	17440.3	20109.3	24420.0	26061.6	26248.8	26926.6	26976.0	28261.1	31194.9	26188.7
60°	16374.1	16723.7	19156.1	24257.6	27244.3	28031.6	29136.6	29313.2	30764.2	34411.1	28095.2
62.5°	15788.1	16088.2	18584.2	23696.3	28578.8	30675.9	31999.8	32084.6	33606.2	37962.7	29976.9
65°	14407.7	14750.1	17433.3	23134.9	29729.8	33980.4	35798.6	35699.7	36631.8	41027.1	31156.1
67.5°	12547.2	12981.4	15283.2	21196.7	30298.2	37592.0	40077.5	39953.9	39618.5	43036.0	31495.0
70°	10171.2	10404.2	12533.0	17846.3	28028.1	39487.9	43456.1	43325.4	41468.4	43300.7	29892.2
71°	8751.9	9115.6	10912.6	15851.6	26139.3	38908.9	43890.3	43855.0	41472.0	42569.9	28684.8
72.5°	6831.4	7053.8	8642.5	12282.4	22217.0	35618.5	42817.1	42951.2	40571.7	40539.9	26195.8
75°	4321.2	4420.1	5422.7	7230.3	12190.6	25224.9	36550.6	36914.2	36024.5	33182.5	19480.9
77.5°	2510.1	2637.2	3248.0	4261.2	5267.4	13691.0	26153.4	26548.8	25030.8	18270.0	7975.2
80°	1461.6	1602.8	2139.4	2474.8	2418.3	5080.3	13316.8	13991.1	10838.4	4614.3	2238.3
82.5°	812.0	907.3	1504.0	1507.5	1288.6	1659.3	4190.6	4384.8	3092.7	1860.5	914.4
85°	589.6	667.3	970.9	879.1	617.8	713.1	1458.1	1528.7	1249.8	783.8	296.6
87.5°	208.3	296.6	533.1	423.7	169.5	148.3	420.1	342.5	317.7	218.9	67.1
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°	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0	11661.0
2.5°	11724.6	11731.6	11696.3	11632.8	11569.2	11488.0	11396.2	11325.6	11293.8	11290.3	11286.8
5°	11851.7	11869.3	11735.2	11537.4	11318.6	11050.2	10820.8	10559.5	10492.4	10386.5	10418.3
7.5°	12056.4	12045.8	11781.0	11360.9	10849.0	10280.6	9800.5	9521.6	9232.1	9150.9	9154.4
10°	12349.4	12282.4	11781.0	11000.8	10146.5	9302.7	8631.9	8208.3	7978.8	7788.1	7717.5
12.5°	12660.1	12490.7	11668.1	10496.0	9242.7	8208.3	7488.0	6916.1	6767.8	6612.5	6616.0
15°	12956.7	12674.2	11445.7	9786.4	8268.3	7039.7	6340.7	5998.2	5952.3	5970.0	5966.4
17.5°	13225.0	12804.9	11106.7	8995.5	7131.5	6037.0	5666.3	5691.1	5814.6	5902.9	5913.5
20°	13496.8	12882.5	10601.9	7936.4	6058.2	5429.8	5443.9	5638.1	5825.2	5945.2	5962.9
22.5°	13754.6	12917.8	10008.8	6912.6	5281.5	5172.1	5380.4	5588.7	5772.3	5888.8	5906.4
25°	13924.0	12836.6	9168.5	5842.9	4900.2	5080.3	5299.2	5475.7	5631.0	5751.1	5779.3
27.5°	13969.9	12575.4	8127.1	4977.9	4723.7	4992.0	5193.3	5323.9	5443.9	5556.9	5578.1
30°	13945.2	12190.6	6983.2	4469.5	4621.3	4889.6	5045.0	5140.3	5285.1	5373.3	5391.0
32.5°	13906.4	11742.2	5789.9	4197.7	4536.6	4794.3	4886.1	4970.8	4967.3	4932.0	4956.7
35°	13920.5	11205.6	4822.6	4035.3	4462.5	4723.7	4801.4	4695.5	4391.9	4377.7	4363.6
37.5°	13994.6	10676.0	4120.0	3922.3	4423.6	4713.1	4755.5	4268.3	4000.0	3876.4	3844.6
40°	14185.3	10058.2	3657.5	3837.6	4420.1	4794.3	4547.2	4052.9	3537.5	3297.4	3279.8
42.5°	14439.5	9451.0	3375.1	3784.6	4462.5	4917.9	4462.5	3749.3	3188.0	3046.8	3025.6
45°	14817.2	8755.5	3219.8	3759.9	4526.0	4963.8	4434.2	3526.9	3046.8	2933.8	2933.8
47.5°	15244.4	8091.7	3135.0	3742.3	4607.2	4932.0	4183.6	3456.3	2979.7	2993.8	3060.9
50°	15668.1	7516.3	3071.5	3703.4	4677.8	4914.4	4081.2	3452.8	2997.3	3177.4	3297.4
52.5°	16158.8	7110.3	2993.8	3639.9	4677.8	4801.4	4049.4	3523.4	3046.8	3099.7	3152.7
55°	16751.9	6983.2	2895.0	3502.2	4593.1	4519.0	4031.8	3625.8	3082.1	2958.5	2979.7
57.5°	17535.7	7188.0	2799.6	3329.2	4398.9	4225.9	4024.7	3654.0	3000.9	2898.5	2877.3
60°	18446.5	7594.0	2771.4	3152.7	4134.1	3975.3	3982.3	3572.8	2887.9	2782.0	2799.6
62.5°	19085.5	7837.6	2753.7	3018.5	3844.6	3699.9	3879.9	3473.9	2838.5	2746.7	2764.3
65°	19085.5	7541.0	2591.3	2813.8	3470.4	3368.0	3756.4	3350.4	2774.9	2669.0	2651.4
67.5°	18361.8	6676.0	2344.2	2506.6	3057.4	2990.3	3583.4	3202.1	2679.6	2598.4	2556.0
70°	16476.5	5062.6	2033.5	2146.5	2534.8	2594.9	3361.0	3000.9	2520.7	2421.9	2358.3
71°	15646.9	4409.5	1902.9	1962.9	2333.6	2421.9	3255.1	2916.1	2450.1	2308.9	2195.9
72.5°	14047.6	3714.0	1705.2	1729.9	1994.7	2153.6	3032.6	2753.7	2316.0	2114.7	1987.6
75°	10672.5	2711.4	1373.3	1359.2	1475.7	1708.7	2566.6	2453.6	2030.0	1758.2	1684.0
77.5°	4610.7	1475.7	1027.4	1037.9	1002.6	1295.7	2019.4	2107.7	1740.5	1429.8	1362.7
80°	1398.1	850.8	702.6	716.7	670.8	868.5	1422.8	1652.2	1398.1	1112.1	1020.3
82.5°	716.7	508.4	480.1	473.1	427.2	490.7	861.4	1129.7	999.1	695.5	614.3
85°	310.7	271.8	236.5	229.5	201.2	176.5	307.1	564.9	529.6	388.3	370.7
87.5°	77.7	70.6	45.9	42.4	24.7	3.5	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)