

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: P458160

Luminaire Tested: **GALN-SA9C-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458160
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-SA9C-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65222 lumens
Efficiency: N/A
Efficacy: 135.6 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

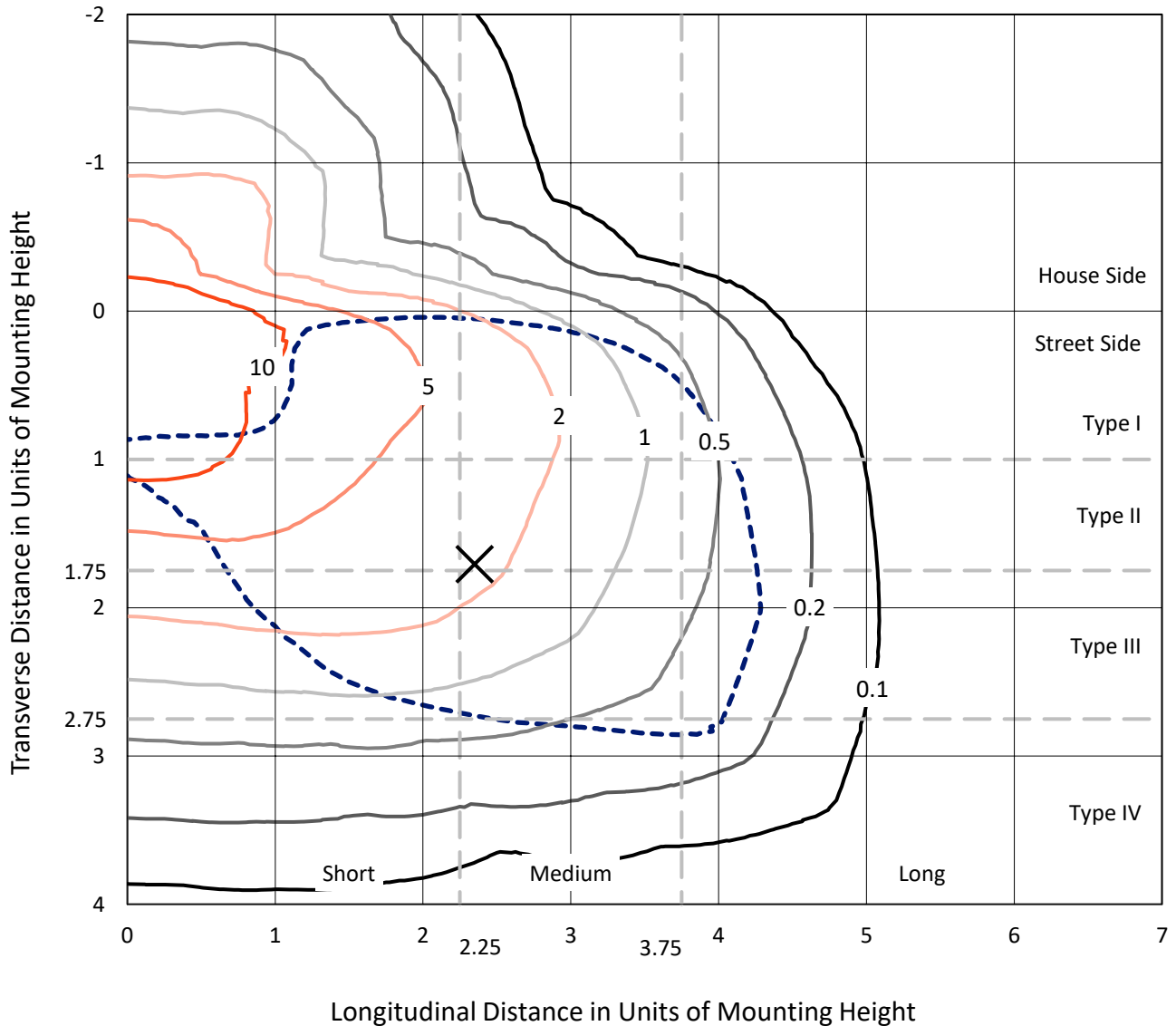
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

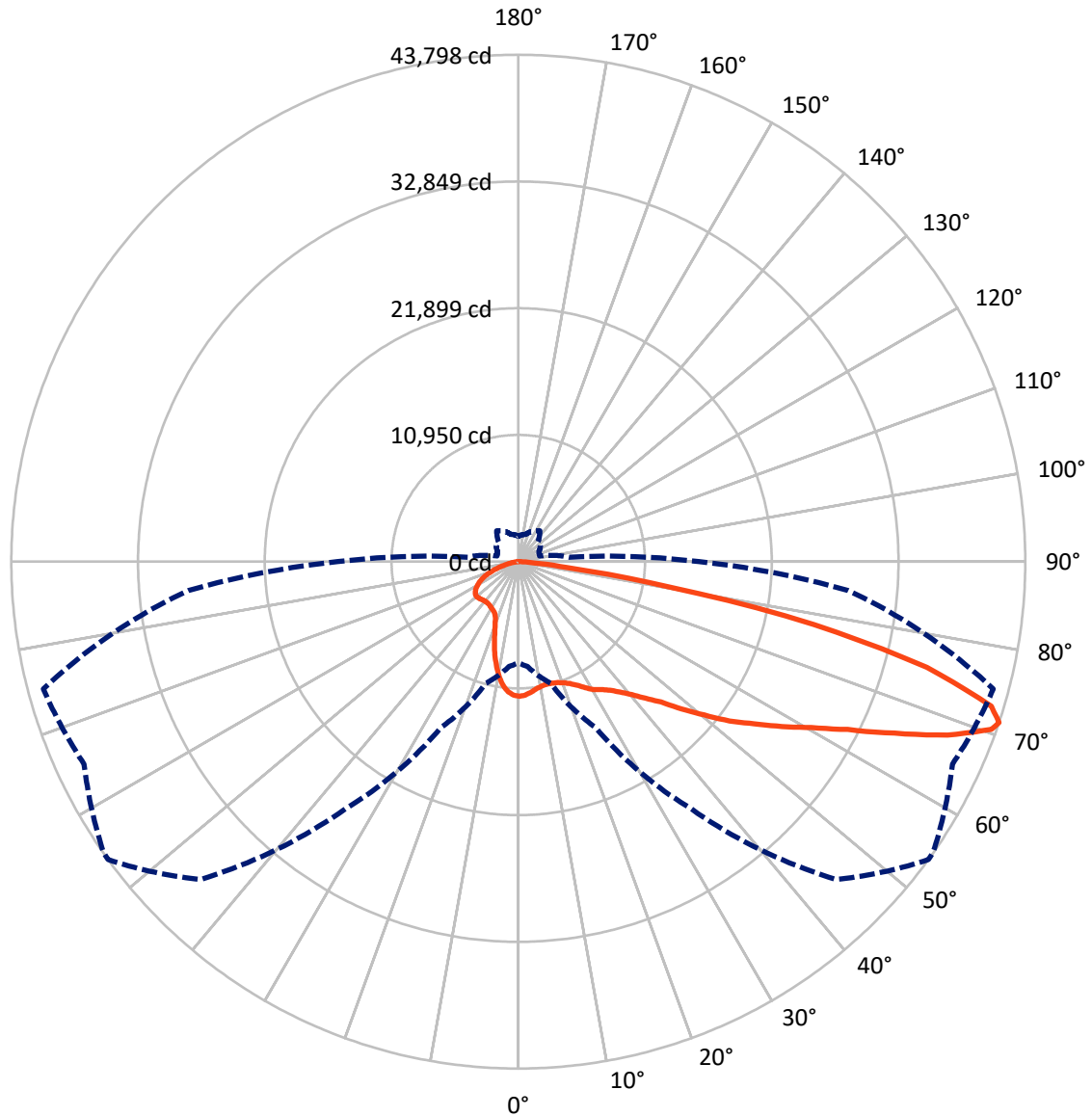
× Max cd
 - - - 1/2 Max cd



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	11775.4	0.0	11775.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	53446.6	0.0	53446.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	65222.0	0.0	65222.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1037.0	1.6
10°-20°	2738.2	4.2
20°-30°	4559.2	7.0
30°-40°	6741.6	10.3
40°-50°	9495.7	14.6
50°-60°	12715.2	19.5
60°-70°	16026.5	24.6
70°-80°	10946.1	16.8
80°-90°	962.6	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°	65222.0	100.0
0°-180°	65222.0	100.0



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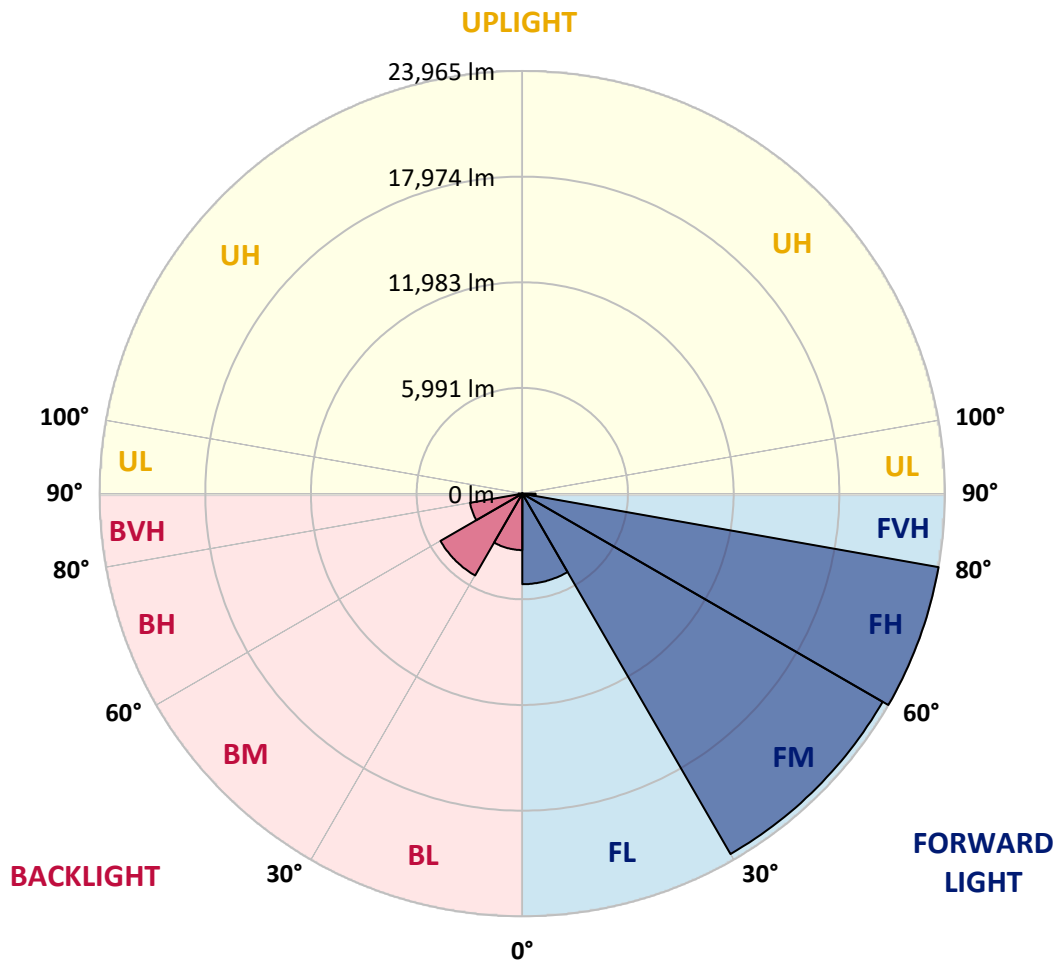
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5134.0	7.9			
FM	(30°-60°)	23595.0	36.2			
FH	(60°-80°)	23965.1	36.7			G5
FVH	(80°-90°)	752.4	1.2			G5
BL	(0°-30°)	3200.3	4.9	B4/5000		
BM	(30°-60°)	5357.5	8.2	B4/8500		
BH	(60°-80°)	3007.4	4.6	B4/5000		G4/5000
BVH	(80°-90°)	210.2	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°	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6
2.5°	11242.0	11294.8	11308.9	11344.2	11418.1	11478.0	11537.9	11530.9	11615.4	11650.7	11682.4
5°	10741.7	10755.8	10808.7	10879.1	11009.5	11175.1	11337.1	11340.6	11548.5	11714.1	11795.1
7.5°	10375.3	10421.1	10456.4	10530.3	10667.7	10847.4	11104.6	11125.7	11495.6	11823.3	11995.9
10°	10135.8	10188.6	10227.4	10319.0	10456.4	10657.2	10935.5	10974.2	11456.9	11995.9	12298.9
12.5°	9917.3	9970.2	10005.4	10125.2	10304.9	10551.5	10865.0	10910.8	11471.0	12196.7	12630.1
15°	10051.2	10093.5	10079.4	10114.6	10234.4	10516.2	10893.2	10939.0	11523.8	12390.5	12957.7
17.5°	10646.6	10681.8	10565.6	10431.7	10375.3	10583.2	10981.3	11030.6	11629.5	12591.3	13292.4
20°	11523.8	11619.0	11365.3	11065.8	10794.6	10822.8	11164.5	11217.3	11777.5	12792.1	13634.1
22.5°	12665.3	12735.8	12425.7	11932.5	11432.2	11175.1	11439.3	11471.0	11999.4	13052.8	14007.6
25°	14007.6	14049.8	13620.0	12985.9	12263.7	11777.5	11816.2	11872.6	12365.8	13348.8	14338.7
27.5°	15311.1	15445.0	14948.2	14173.2	13221.9	12411.6	12334.1	12369.4	12763.9	13514.3	14567.7
30°	16857.7	16847.1	16322.2	15423.8	14204.9	13102.2	12823.8	12816.8	12978.8	13595.4	14733.3
32.5°	18090.8	18235.2	17720.8	16741.4	15328.7	13817.3	13162.0	13148.0	13144.4	13736.3	14979.9
35°	19492.9	19514.1	19042.0	18055.5	16544.2	14715.7	13634.1	13563.7	13482.6	14039.3	15314.6
37.5°	20747.1	20845.8	20412.4	19306.2	17738.5	15649.3	14282.4	14236.6	13990.0	14564.2	15850.1
40°	21726.5	21800.5	21539.8	20486.4	18915.2	16656.9	15106.8	15022.2	14722.7	15423.8	16565.3
42.5°	22047.1	22198.6	22300.8	21782.9	20268.0	17851.2	16121.4	16015.7	15786.7	16727.3	17389.7
45°	22071.8	22311.4	22850.4	22875.0	21627.9	19281.5	17305.1	17231.1	17213.5	18397.3	18548.8
47.5°	21885.1	22128.2	23033.6	23523.3	22839.8	20726.0	19013.8	18897.5	18908.1	20461.8	19848.8
50°	21434.1	21723.0	22822.2	23939.0	23787.5	22226.8	20817.6	20778.8	20997.3	22818.7	21198.1
52.5°	20585.1	20933.8	22603.8	24199.7	24492.1	23519.8	22868.0	22758.8	23311.9	25376.4	22674.2
55°	18235.2	18760.1	21804.0	24344.1	25161.5	24756.3	24714.1	24911.4	25644.1	28166.6	24298.3
57.5°	17009.2	17403.8	20067.2	24368.8	26007.0	26193.7	26870.2	26919.5	28201.9	31129.5	26133.8
60°	16339.8	16688.6	19116.0	24206.7	27187.2	27972.9	29075.6	29251.7	30699.7	34339.0	28036.3
62.5°	15755.0	16054.5	18545.2	23646.6	28518.9	30611.6	31932.8	32017.3	33535.7	37883.1	29914.1
65°	14377.5	14719.2	17396.7	23086.4	29667.4	33909.2	35723.5	35624.9	36555.0	40941.1	31090.7
67.5°	12520.9	12954.2	15251.2	21152.3	30234.6	37513.2	39993.4	39870.1	39535.5	42945.7	31429.0
70°	10149.9	10382.4	12506.8	17808.9	27969.3	39405.1	43365.0	43234.6	41381.5	43210.0	29829.5
71°	8733.6	9096.5	10889.7	15818.4	26084.5	38827.3	43798.3	43763.1	41385.0	42480.7	28624.6
72.5°	6817.1	7039.0	8624.4	12256.6	22170.4	35543.9	42727.3	42861.2	40486.7	40455.0	26140.9
75°	4312.2	4410.8	5411.4	7215.2	12165.0	25172.1	36473.9	36836.8	35949.0	33113.0	19440.1
77.5°	2504.9	2631.7	3241.2	4252.3	5256.4	13662.3	26098.6	26493.2	24978.3	18231.7	7958.5
80°	1458.5	1599.5	2135.0	2469.6	2413.3	5069.6	13288.9	13961.8	10815.7	4604.6	2233.6
82.5°	810.3	905.4	1500.8	1504.3	1285.9	1655.8	4181.8	4375.6	3086.2	1856.6	912.5
85°	588.3	665.9	968.8	877.2	616.5	711.7	1455.0	1525.5	1247.2	782.1	295.9
87.5°	207.9	295.9	532.0	422.8	169.1	148.0	419.2	341.7	317.1	218.4	66.9
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°	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6	11636.6
2.5°	11700.0	11707.0	11671.8	11608.4	11545.0	11463.9	11372.3	11301.9	11270.2	11266.7	11263.1
5°	11826.8	11844.4	11710.6	11513.3	11294.8	11027.1	10798.1	10537.4	10470.4	10364.8	10396.5
7.5°	12031.1	12020.6	11756.4	11337.1	10826.3	10259.1	9779.9	9501.6	9212.7	9131.7	9135.2
10°	12323.6	12256.6	11756.4	10977.8	10125.2	9283.2	8613.8	8191.0	7962.0	7771.8	7701.3
12.5°	12633.6	12464.5	11643.6	10474.0	9223.3	8191.0	7472.3	6901.6	6753.6	6598.6	6602.2
15°	12929.5	12647.7	11421.7	9765.8	8250.9	7024.9	6327.4	5985.6	5939.8	5957.4	5953.9
17.5°	13197.3	12778.0	11083.5	8976.7	7116.5	6024.4	5654.5	5679.1	5802.4	5890.5	5901.1
20°	13468.5	12855.5	10579.7	7919.8	6045.5	5418.4	5432.5	5626.3	5813.0	5932.8	5950.4
22.5°	13725.7	12890.8	9987.8	6898.1	5270.5	5161.2	5369.1	5577.0	5760.2	5876.4	5894.0
25°	13894.8	12809.7	9149.3	5830.6	4890.0	5069.6	5288.1	5464.2	5619.2	5739.0	5767.2
27.5°	13940.6	12549.0	8110.0	4967.5	4713.8	4981.6	5182.4	5312.7	5432.5	5545.3	5566.4
30°	13916.0	12165.0	6968.6	4460.2	4611.6	4879.4	5034.4	5129.5	5274.0	5362.1	5379.7
32.5°	13877.2	11717.6	5777.8	4188.9	4527.1	4784.3	4875.9	4960.4	4956.9	4921.7	4946.3
35°	13891.3	11182.1	4812.5	4026.8	4453.1	4713.8	4791.3	4685.6	4382.7	4368.6	4354.5
37.5°	13965.3	10653.6	4111.4	3914.1	4414.4	4703.2	4745.5	4259.3	3991.6	3868.3	3836.6
40°	14155.5	10037.1	3649.9	3829.5	4410.8	4784.3	4537.7	4044.4	3530.1	3290.5	3272.9
42.5°	14409.2	9431.2	3368.0	3776.7	4453.1	4907.6	4453.1	3741.5	3181.3	3040.4	3019.2
45°	14786.2	8737.1	3213.0	3752.0	4516.5	4953.4	4424.9	3519.5	3040.4	2927.6	2927.6
47.5°	15212.4	8074.8	3128.5	3734.4	4597.6	4921.7	4174.8	3449.0	2973.4	2987.5	3054.5
50°	15635.2	7500.5	3065.0	3695.7	4668.0	4904.1	4072.6	3445.5	2991.1	3170.7	3290.5
52.5°	16124.9	7095.4	2987.5	3632.2	4668.0	4791.3	4040.9	3516.0	3040.4	3093.2	3146.1
55°	16716.8	6968.6	2888.9	3494.8	4583.5	4509.5	4023.3	3618.2	3075.6	2952.3	2973.4
57.5°	17498.9	7172.9	2793.8	3322.2	4389.7	4217.1	4016.3	3646.3	2994.6	2892.4	2871.3
60°	18407.8	7578.0	2765.6	3146.1	4125.5	3966.9	3974.0	3565.3	2881.8	2776.1	2793.8
62.5°	19045.5	7821.1	2748.0	3012.2	3836.6	3692.1	3871.8	3466.7	2832.5	2740.9	2758.5
65°	19045.5	7525.2	2585.9	2807.9	3463.1	3361.0	3748.5	3343.4	2769.1	2663.4	2645.8
67.5°	18323.3	6662.1	2339.3	2501.4	3050.9	2984.0	3575.9	3195.4	2674.0	2593.0	2550.7
70°	16442.0	5052.0	2029.3	2142.0	2529.5	2589.4	3353.9	2994.6	2515.4	2416.8	2353.4
71°	15614.1	4400.3	1898.9	1958.8	2328.7	2416.8	3248.2	2910.0	2445.0	2304.1	2191.3
72.5°	14018.1	3706.2	1701.6	1726.3	1990.5	2149.0	3026.3	2748.0	2311.1	2110.3	1983.5
75°	10650.1	2705.7	1370.5	1356.4	1472.6	1705.1	2561.2	2448.5	2025.7	1754.5	1680.5
77.5°	4601.1	1472.6	1025.2	1035.8	1000.5	1293.0	2015.2	2103.2	1736.9	1426.8	1359.9
80°	1395.1	849.1	701.1	715.2	669.4	866.7	1419.8	1648.8	1395.1	1109.8	1018.2
82.5°	715.2	507.3	479.1	472.1	426.3	489.7	859.6	1127.4	997.0	694.0	613.0
85°	310.0	271.3	236.0	229.0	200.8	176.2	306.5	563.7	528.5	387.5	369.9
87.5°	77.5	70.5	45.8	42.3	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)