

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: P458392

Luminaire Tested: **GALN-SA9D-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458392
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-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 71767 lumens
Efficiency: N/A
Efficacy: 130.0 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

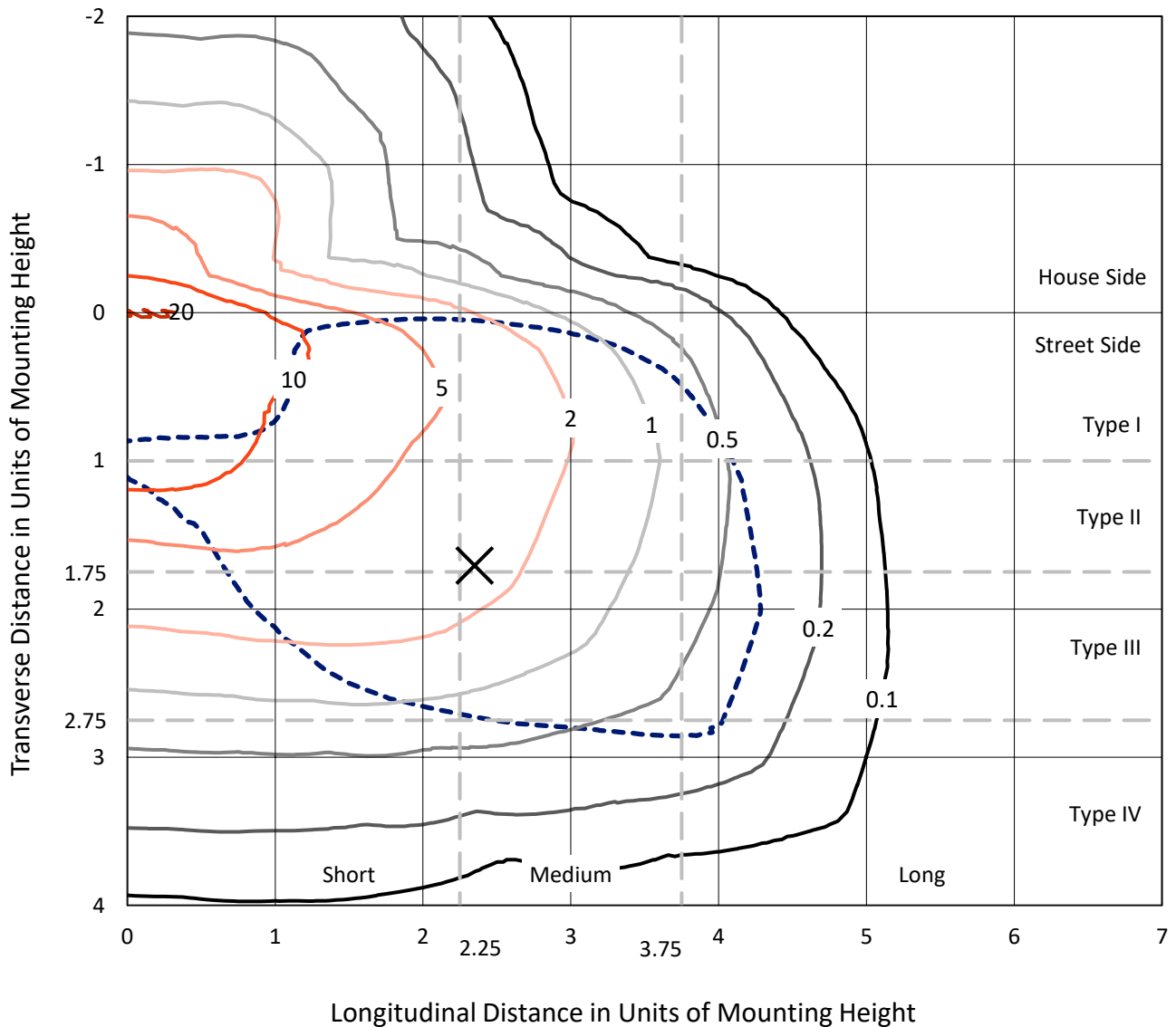
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

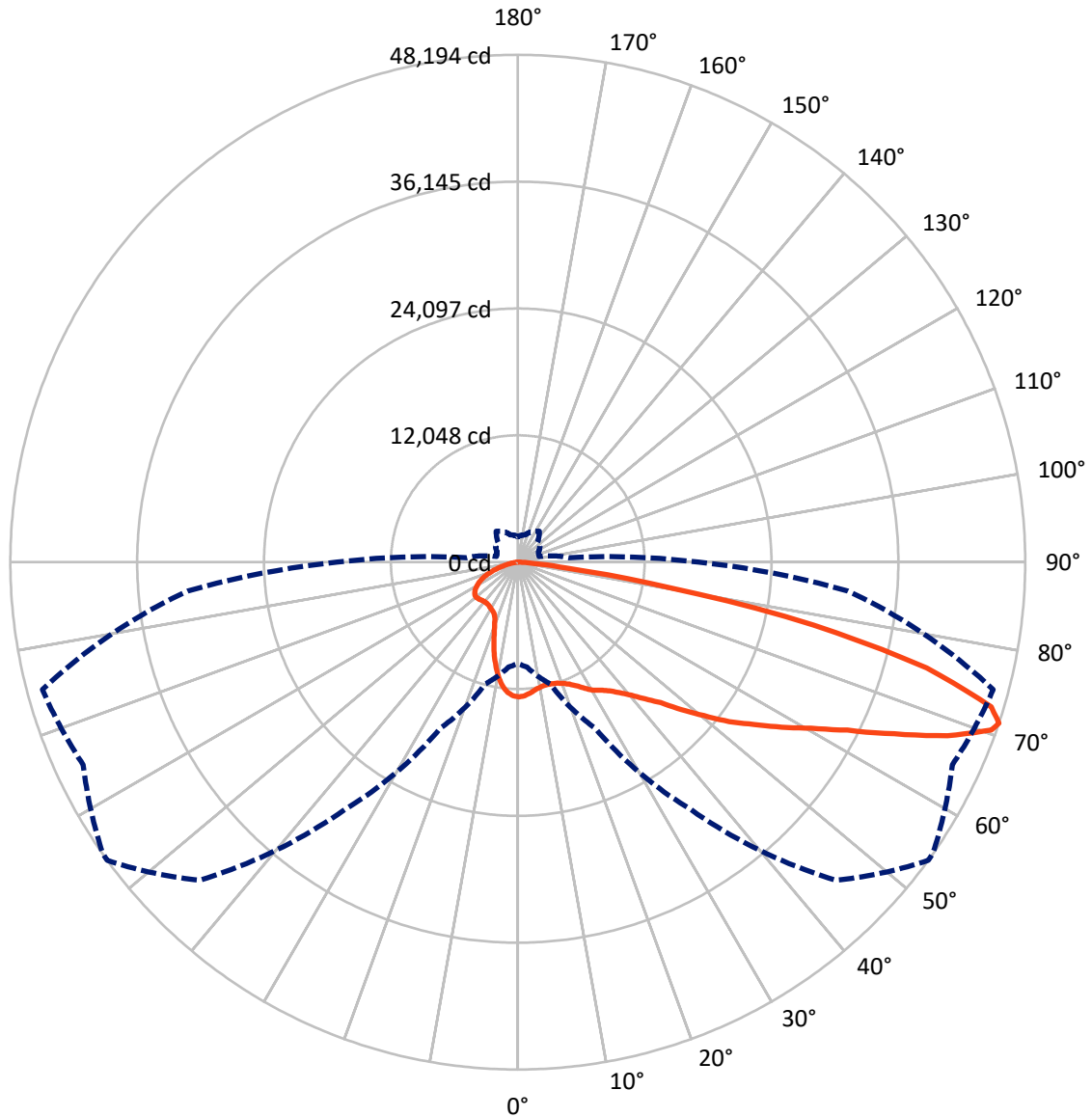
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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	12957.1	0.0	12957.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	58809.9	0.0	58809.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	71767.0	0.0	71767.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1141.1	1.6
10°-20°	3013.0	4.2
20°-30°	5016.7	7.0
30°-40°	7418.1	10.3
40°-50°	10448.6	14.6
50°-60°	13991.1	19.5
60°-70°	17634.7	24.6
70°-80°	12044.5	16.8
80°-90°	1059.2	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°	71767.0	100.0
0°-180°	71767.0	100.0

Coefficient of Utilization



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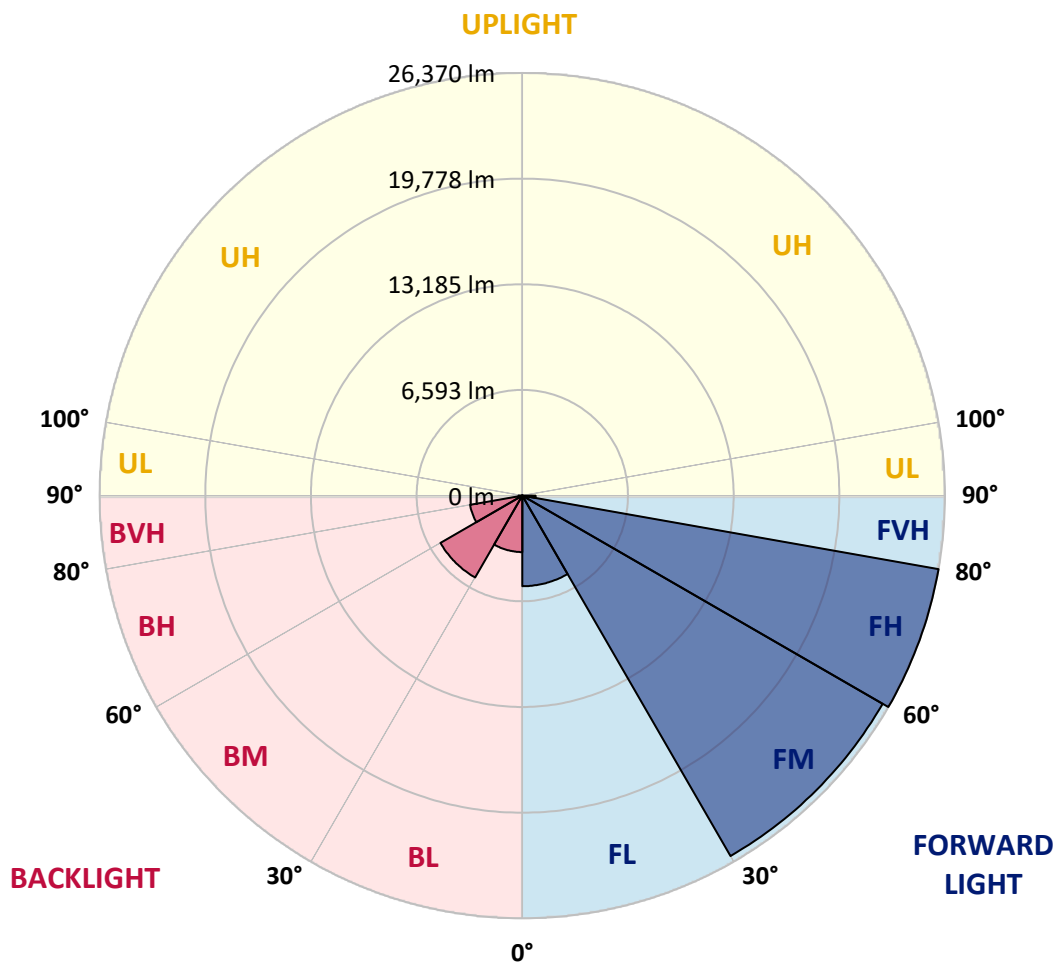
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5649.2	7.9			
FM	(30°-60°)	25962.7	36.2			
FH	(60°-80°)	26370.0	36.7			G5
FVH	(80°-90°)	828.0	1.2			G5
BL	(0°-30°)	3521.5	4.9	B4/5000		
BM	(30°-60°)	5895.1	8.2	B4/8500		
BH	(60°-80°)	3309.2	4.6	B4/5000		G4/5000
BVH	(80°-90°)	231.3	0.3			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3
2.5°	12370.1	12428.3	12443.8	12482.5	12563.9	12629.8	12695.8	12688.0	12781.0	12819.8	12854.7
5°	11819.6	11835.2	11893.3	11970.8	12114.3	12296.5	12474.8	12478.7	12707.4	12889.6	12978.7
7.5°	11416.5	11466.9	11505.6	11587.1	11738.2	11935.9	12218.9	12242.2	12649.2	13009.8	13199.7
10°	11152.9	11211.0	11253.7	11354.5	11505.6	11726.6	12032.9	12075.5	12606.6	13199.7	13533.1
12.5°	10912.5	10970.7	11009.4	11141.2	11339.0	11610.3	11955.3	12005.7	12622.1	13420.7	13897.5
15°	11059.8	11106.4	11090.9	11129.6	11261.4	11571.5	11986.3	12036.7	12680.2	13633.9	14258.0
17.5°	11715.0	11753.7	11625.8	11478.5	11416.5	11645.2	12083.3	12137.5	12796.5	13854.8	14626.3
20°	12680.2	12784.9	12505.8	12176.3	11877.8	11908.8	12284.8	12343.0	12959.4	14075.8	15002.3
22.5°	13936.3	14013.8	13672.6	13129.9	12579.5	12296.5	12587.2	12622.1	13203.6	14362.7	15413.2
25°	15413.2	15459.7	14986.8	14289.0	13494.3	12959.4	13002.0	13064.0	13606.7	14688.3	15777.6
27.5°	16847.6	16994.9	16448.3	15595.4	14548.7	13657.1	13571.9	13610.6	14044.8	14870.5	16029.6
30°	18549.4	18537.7	17960.1	16971.6	15630.3	14416.9	14110.7	14102.9	14281.3	14959.7	16211.8
32.5°	19906.2	20065.1	19499.1	18421.4	16866.9	15203.9	14482.8	14467.3	14463.5	15114.7	16483.2
35°	21449.0	21472.3	20952.8	19867.4	18204.4	16192.4	15002.3	14924.8	14835.6	15448.1	16851.4
37.5°	22829.1	22937.6	22460.8	21243.6	19518.5	17219.7	15715.6	15665.2	15393.8	16025.7	17440.7
40°	23906.8	23988.2	23701.3	22542.2	20813.3	18328.4	16622.7	16529.7	16200.2	16971.6	18227.6
42.5°	24259.5	24426.2	24538.7	23968.8	22301.9	19642.6	17739.2	17622.9	17370.9	18405.9	19134.7
45°	24286.7	24550.3	25143.4	25170.5	23798.2	21216.4	19041.7	18960.3	18940.9	20243.4	20410.1
47.5°	24081.2	24348.7	25345.0	25883.8	25131.8	22805.8	20921.8	20793.9	20805.5	22515.1	21840.6
50°	23585.0	23902.9	25112.4	26341.3	26174.6	24457.3	22906.6	22864.0	23104.3	25108.5	23325.3
52.5°	22650.8	23034.6	24872.0	26628.1	26949.9	25880.0	25162.8	25042.6	25651.2	27922.9	24949.6
55°	20065.1	20642.7	23992.1	26787.1	27686.4	27240.6	27194.1	27411.2	28217.5	30993.1	26736.7
57.5°	18716.1	19150.2	22080.9	26814.2	28616.8	28822.3	29566.6	29620.8	31031.9	34253.3	28756.4
60°	17979.5	18363.3	21034.2	26635.9	29915.5	30779.9	31993.3	32187.1	33780.4	37784.9	30849.7
62.5°	17336.0	17665.5	20406.2	26019.5	31380.8	33683.5	35137.2	35230.2	36901.0	41684.7	32915.9
65°	15820.3	16196.3	19142.5	25403.1	32644.6	37311.9	39308.4	39199.8	40223.2	45049.6	34210.7
67.5°	13777.3	14254.1	16781.7	23274.9	33268.7	41277.7	44006.8	43871.1	43502.8	47255.3	34582.8
70°	11168.4	11424.2	13761.8	19596.0	30776.1	43359.4	47716.6	47573.2	45534.1	47546.1	32822.9
71°	9610.0	10009.3	11982.5	17405.8	28702.1	42723.6	48193.5	48154.7	45538.0	46743.6	31497.1
72.5°	7501.2	7745.4	9489.8	13486.6	24395.2	39110.7	47015.0	47162.3	44549.5	44514.6	28764.1
75°	4744.9	4853.5	5954.4	7939.2	13385.8	27698.1	40134.1	40533.4	39556.5	36435.8	21390.9
77.5°	2756.2	2895.8	3566.4	4679.0	5783.8	15033.3	28717.6	29151.8	27484.8	20061.2	8757.2
80°	1604.9	1760.0	2349.2	2717.5	2655.4	5578.4	14622.4	15362.8	11901.1	5066.7	2457.7
82.5°	891.6	996.3	1651.4	1655.3	1414.9	1822.0	4601.5	4814.7	3395.9	2042.9	1004.0
85°	647.4	732.7	1066.1	965.3	678.4	783.1	1601.0	1678.6	1372.3	860.6	325.6
87.5°	228.7	325.6	585.4	465.2	186.1	162.8	461.3	376.0	348.9	240.3	73.7
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°	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3	12804.3
2.5°	12874.1	12881.8	12843.1	12773.3	12703.5	12614.3	12513.6	12436.0	12401.1	12397.3	12393.4
5°	13013.6	13033.0	12885.7	12668.6	12428.3	12133.6	11881.7	11594.8	11521.2	11404.9	11439.7
7.5°	13238.5	13226.8	12936.1	12474.8	11912.7	11288.6	10761.3	10455.1	10137.2	10048.1	10051.9
10°	13560.2	13486.6	12936.1	12079.4	11141.2	10214.7	9478.2	9013.0	8761.0	8551.7	8474.2
12.5°	13901.4	13715.3	12812.0	11525.0	10148.8	9013.0	8222.2	7594.2	7431.4	7260.8	7264.7
15°	14227.0	13916.9	12567.8	10745.8	9078.9	7729.9	6962.3	6586.3	6535.9	6555.3	6551.4
17.5°	14521.6	14060.3	12195.7	9877.5	7830.7	6628.9	6221.9	6249.0	6384.7	6481.6	6493.2
20°	14820.1	14145.6	11641.3	8714.5	6652.2	5962.2	5977.7	6190.9	6396.3	6528.1	6547.5
22.5°	15103.1	14184.4	10990.1	7590.3	5799.3	5679.2	5907.9	6136.6	6338.2	6466.1	6485.5
25°	15289.2	14095.2	10067.4	6415.7	5380.7	5578.4	5818.7	6012.6	6183.1	6314.9	6345.9
27.5°	15339.6	13808.3	8923.9	5466.0	5186.8	5481.5	5702.4	5845.9	5977.7	6101.7	6125.0
30°	15312.4	13385.8	7667.8	4907.7	5074.4	5369.0	5539.6	5644.3	5803.2	5900.1	5919.5
32.5°	15269.8	12893.5	6357.6	4609.2	4981.4	5264.4	5365.2	5458.2	5454.3	5415.6	5442.7
35°	15285.3	12304.2	5295.4	4430.9	4900.0	5186.8	5272.1	5155.8	4822.4	4806.9	4791.4
37.5°	15366.7	11722.7	4524.0	4306.9	4857.3	5175.2	5221.7	4686.8	4392.1	4256.5	4221.6
40°	15576.0	11044.3	4016.1	4213.8	4853.5	5264.4	4993.0	4450.3	3884.3	3620.7	3601.3
42.5°	15855.2	10377.6	3706.0	4155.7	4900.0	5400.1	4900.0	4116.9	3500.5	3345.5	3322.2
45°	16269.9	9613.9	3535.4	4128.5	4969.8	5450.5	4869.0	3872.7	3345.5	3221.4	3221.4
47.5°	16739.0	8885.1	3442.4	4109.2	5058.9	5415.6	4593.7	3795.2	3271.8	3287.3	3361.0
50°	17204.2	8253.2	3372.6	4066.5	5136.4	5396.2	4481.3	3791.3	3291.2	3488.9	3620.7
52.5°	17743.0	7807.4	3287.3	3996.7	5136.4	5272.1	4446.4	3868.8	3345.5	3403.6	3461.8
55°	18394.3	7667.8	3178.8	3845.6	5043.4	4962.0	4427.0	3981.2	3384.2	3248.6	3271.8
57.5°	19254.9	7892.7	3074.1	3655.6	4830.2	4640.2	4419.3	4012.2	3295.1	3182.7	3159.4
60°	20255.1	8338.5	3043.1	3461.8	4539.5	4365.0	4372.8	3923.1	3171.0	3054.7	3074.1
62.5°	20956.7	8606.0	3023.7	3314.5	4221.6	4062.6	4260.3	3814.5	3116.8	3016.0	3035.4
65°	20956.7	8280.3	2845.4	3089.6	3810.7	3698.2	4124.7	3678.9	3047.0	2930.7	2911.3
67.5°	20162.0	7330.6	2574.0	2752.4	3357.1	3283.5	3934.7	3516.0	2942.3	2853.2	2806.6
70°	18091.9	5559.0	2232.9	2357.0	2783.4	2849.3	3690.5	3295.1	2767.9	2659.3	2589.5
71°	17180.9	4841.8	2089.5	2155.4	2562.4	2659.3	3574.2	3202.0	2690.3	2535.3	2411.2
72.5°	15424.9	4078.1	1872.4	1899.5	2190.3	2364.7	3330.0	3023.7	2543.0	2322.1	2182.5
75°	11718.9	2977.2	1508.0	1492.5	1620.4	1876.3	2818.3	2694.2	2229.0	1930.5	1849.1
77.5°	5062.8	1620.4	1128.1	1139.7	1100.9	1422.7	2217.4	2314.3	1911.1	1570.0	1496.4
80°	1535.1	934.3	771.4	786.9	736.5	953.6	1562.3	1814.2	1535.1	1221.1	1120.3
82.5°	786.9	558.2	527.2	519.5	469.1	538.8	945.9	1240.5	1097.1	763.7	674.5
85°	341.1	298.5	259.7	252.0	221.0	193.8	337.3	620.3	581.5	426.4	407.0
87.5°	85.3	77.5	50.4	46.5	27.1	3.9	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)