

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: P458332

Luminaire Tested: **GALN-SA9D-727-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458332
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-SA9D-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58162 lumens
Efficiency: N/A
Efficacy: 105.4 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

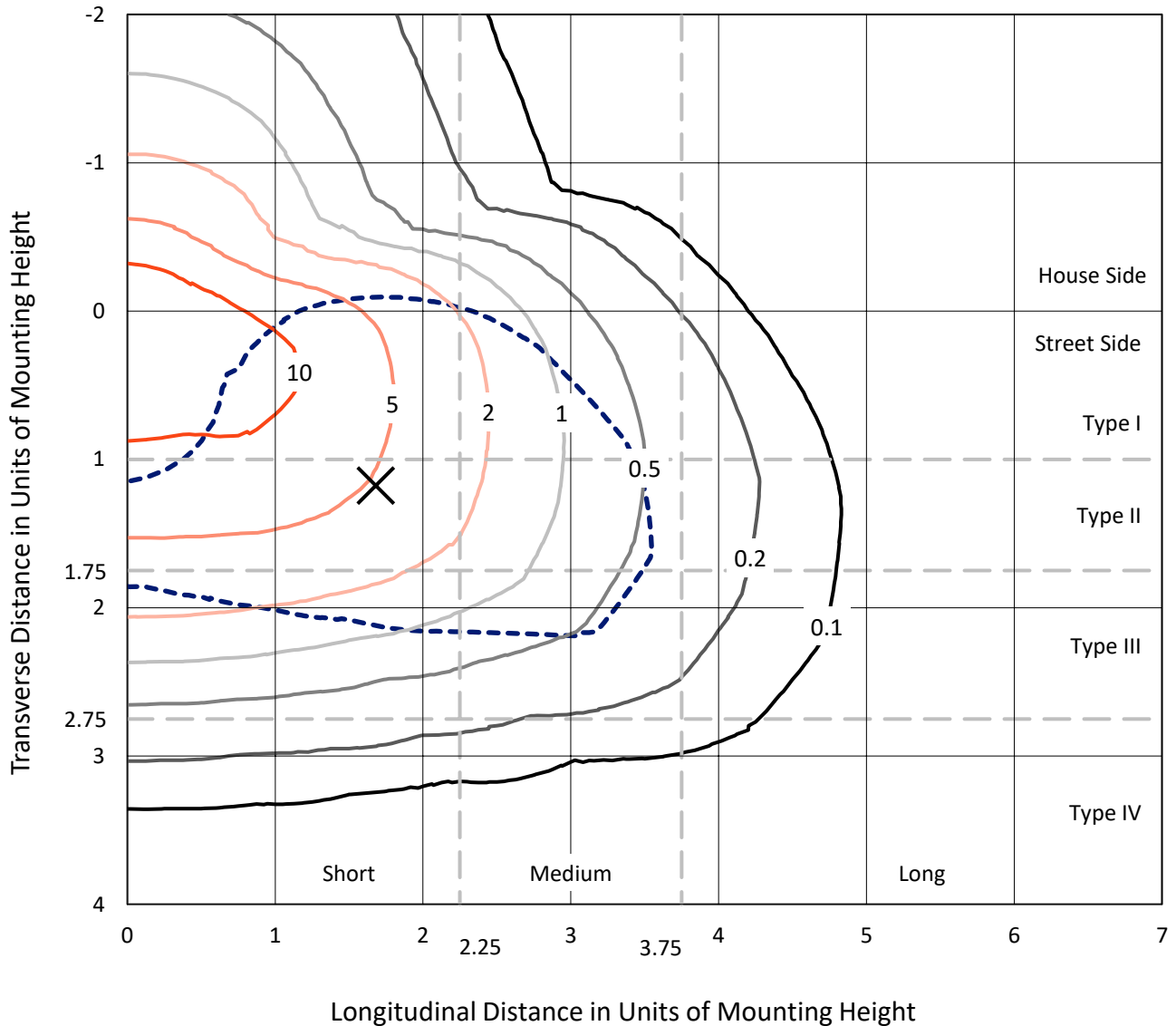
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

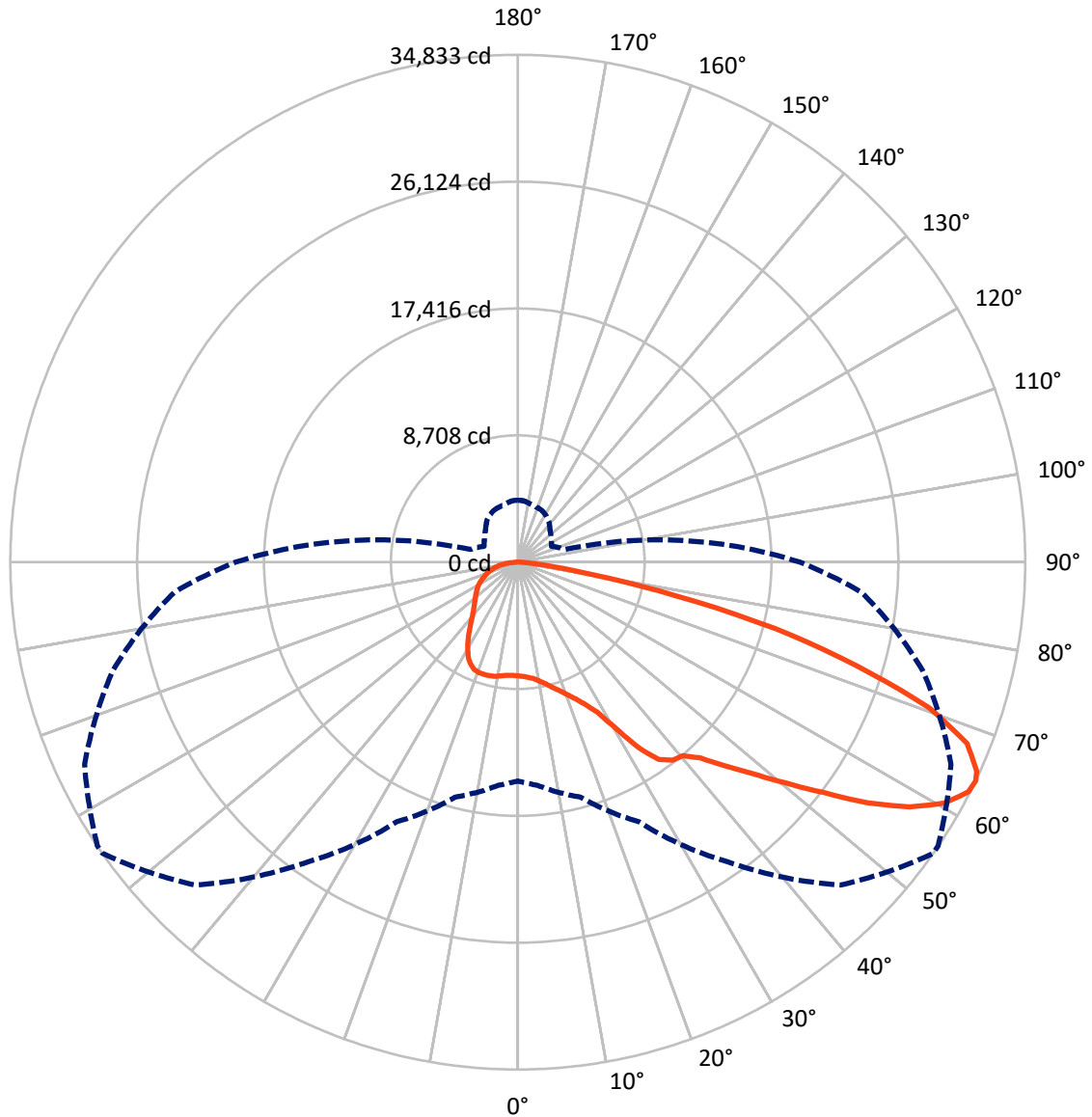
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14128.7	0.0	14128.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	44033.3	0.0	44033.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	58162.0	0.0	58162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.1	1.3
10°-20°	2395.1	4.1
20°-30°	4264.0	7.3
30°-40°	6560.6	11.3
40°-50°	9300.1	16.0
50°-60°	13461.7	23.1
60°-70°	13931.4	24.0
70°-80°	6524.1	11.2
80°-90°	965.8	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°	58162.0	100.0
0°-180°	58162.0	100.0

Coefficient of Utilization



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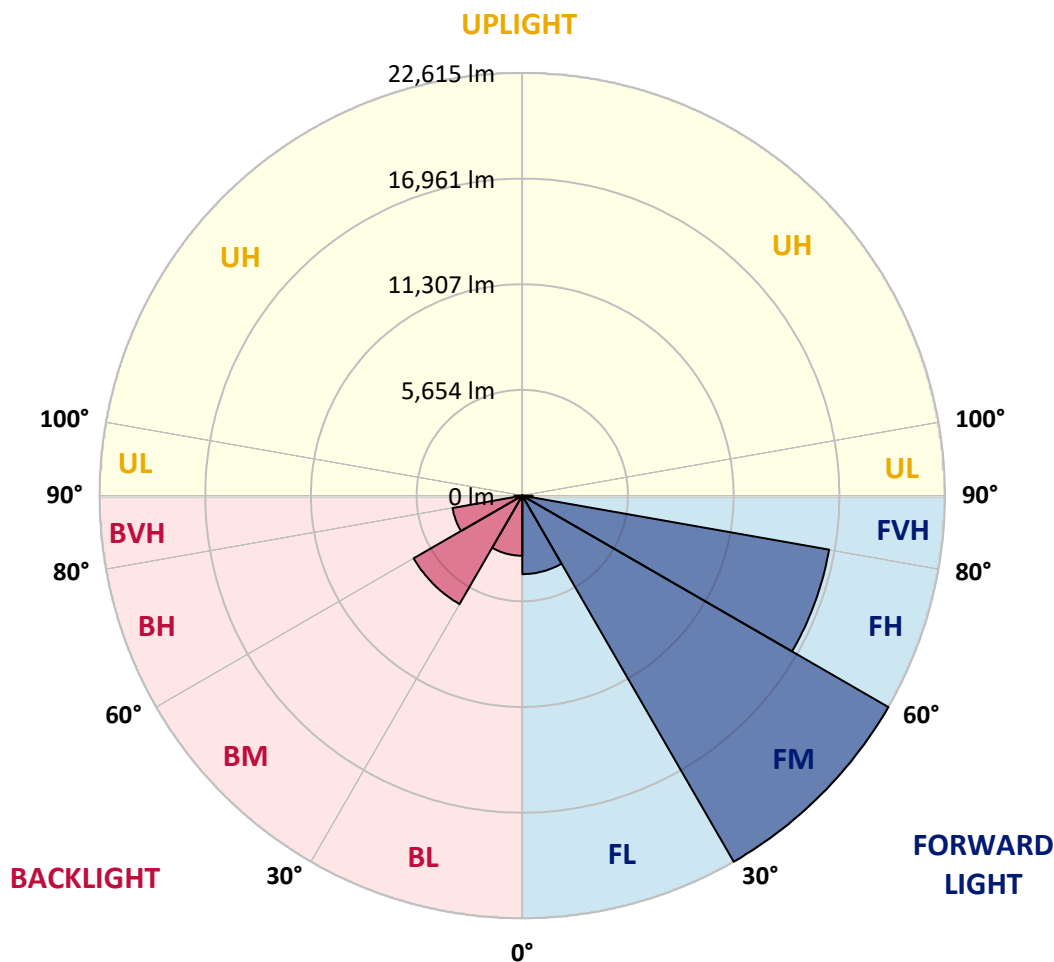
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4200.2	7.2			
FM	(30°-60°)	22615.0	38.9			
FH	(60°-80°)	16665.1	28.7			G5
FVH	(80°-90°)	553.0	1.0			G4/750
BL	(0°-30°)	3218.0	5.5	B4/5000		
BM	(30°-60°)	6707.5	11.5	B4/8500		
BH	(60°-80°)	3790.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	412.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6
2.5°	7891.1	7887.9	7897.6	7887.9	7894.4	7871.7	7861.9	7868.4	7858.7	7842.5	7813.3
5°	7988.4	7985.1	7988.4	7975.4	7981.9	7968.9	7946.2	7952.7	7936.5	7900.8	7858.7
7.5°	8153.7	8140.8	8140.8	8137.5	8124.5	8105.1	8088.9	8082.4	8066.2	8020.8	7956.0
10°	8367.7	8367.7	8370.9	8345.0	8361.2	8325.6	8309.3	8306.1	8251.0	8192.6	8101.9
12.5°	8649.8	8666.0	8656.2	8643.3	8636.8	8623.8	8568.7	8581.7	8520.1	8419.6	8309.3
15°	8999.9	9025.8	9009.6	9003.1	8986.9	8938.3	8915.6	8905.9	8824.8	8678.9	8533.0
17.5°	9463.5	9431.1	9418.1	9401.9	9333.8	9298.2	9259.3	9252.8	9181.5	9009.6	8782.7
20°	9868.8	9914.2	9888.2	9872.0	9803.9	9735.8	9706.7	9696.9	9635.3	9447.3	9084.2
22.5°	10351.8	10361.6	10371.3	10332.4	10300.0	10248.1	10196.2	10180.0	10157.3	9962.8	9518.6
25°	10867.3	10906.2	10873.8	10834.9	10796.0	10792.7	10841.4	10834.9	10825.2	10637.1	10095.7
27.5°	11707.0	11742.7	11752.4	11710.2	11561.1	11574.1	11684.3	11720.0	11869.1	11557.9	10838.1
30°	12180.3	12216.0	12297.0	12455.9	12692.6	12900.1	13165.9	13247.0	13389.6	12802.8	11720.0
32.5°	12472.1	12485.1	12631.0	12926.0	13636.0	14410.9	15133.8	15163.0	15253.8	14430.3	12527.2
35°	12932.5	12942.2	13058.9	13383.1	14216.3	15506.7	16625.2	16660.8	16586.3	14936.1	12903.3
37.5°	13499.8	13525.8	13600.3	13869.4	14864.7	16424.2	17244.4	17218.5	16557.1	15338.1	13567.9
40°	14326.6	14326.6	14239.0	14602.1	15548.8	16949.4	17461.6	17416.2	17241.2	16502.0	14579.4
42.5°	15056.0	15043.1	15250.5	15496.9	16404.7	17759.9	18372.6	18447.2	18735.7	17964.1	15730.4
45°	16005.9	16064.3	16181.0	16628.4	17860.4	19144.2	19935.3	20006.6	20415.1	19685.7	17075.8
47.5°	16965.6	16985.0	17351.4	17947.9	19663.0	21021.4	21669.8	21786.5	22159.3	21699.0	18525.0
50°	17646.4	17831.2	18418.0	19358.2	21520.6	23310.3	23816.0	23955.4	24613.6	23890.6	20214.1
52.5°	18366.1	18547.7	19264.2	20697.2	23653.9	25651.0	26273.5	26367.5	27051.6	26108.1	21942.1
55°	18982.1	19150.7	19964.5	21883.8	25352.7	28040.4	29168.6	29058.4	29385.8	27816.7	23274.6
57.5°	19082.6	19218.8	20243.3	22642.4	26630.1	30089.4	31707.1	31772.0	31392.7	29094.0	24373.6
60°	18304.5	18583.4	19760.2	22561.3	27203.9	31515.8	33600.5	33645.9	32569.5	29748.9	24811.3
62.5°	16926.7	16897.5	18320.8	21258.0	26399.9	31840.1	34715.7	34667.1	33029.9	29434.5	24386.6
64°	15023.6	15373.7	16703.0	19656.5	25103.1	31340.8	34832.5	34806.5	32809.4	28779.6	23663.6
65°	13863.0	13843.5	15156.5	18346.7	23812.8	30588.6	34625.0	34589.3	32349.1	28192.8	23102.8
67.5°	10008.2	10053.6	11350.4	14158.0	19358.2	27648.1	33273.0	33140.1	30533.5	26247.5	20969.5
70°	6062.6	6088.5	7106.5	9392.2	13895.4	22350.6	29992.1	29998.6	27755.1	23342.7	17847.4
72.5°	3193.4	3261.5	3670.0	5333.2	8439.0	15681.7	24331.5	24908.6	23829.0	19922.3	14099.6
75°	1776.6	1786.4	2074.9	2629.3	4305.4	8776.2	18288.3	18453.7	18865.4	16035.1	10426.4
77.5°	1355.2	1374.6	1465.4	1698.8	2344.0	4068.8	11068.3	11898.3	13295.6	11305.0	5949.1
80°	1099.1	1118.5	1196.3	1335.7	1559.4	1929.0	5141.9	5589.3	7116.3	5018.7	2321.3
82.5°	855.9	842.9	943.4	1034.2	1134.7	1141.2	2110.6	2334.3	2898.4	2159.2	1005.0
85°	635.4	635.4	716.5	697.0	732.7	667.9	930.5	1027.7	1160.6	917.5	466.9
87.5°	252.9	278.8	470.1	421.5	327.4	262.6	343.7	363.1	402.0	359.9	194.5
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°	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6	7803.6
2.5°	7816.6	7826.3	7803.6	7787.4	7780.9	7771.2	7761.4	7764.7	7777.6	7790.6	7787.4
5°	7855.5	7858.7	7819.8	7800.3	7787.4	7774.4	7774.4	7784.1	7810.1	7829.5	7829.5
7.5°	7952.7	7952.7	7897.6	7861.9	7842.5	7819.8	7813.3	7816.6	7836.0	7861.9	7865.2
10°	8105.1	8092.1	8020.8	7965.7	7930.0	7874.9	7826.3	7800.3	7810.1	7826.3	7826.3
12.5°	8289.9	8254.2	8163.5	8088.9	8001.3	7897.6	7797.1	7745.2	7742.0	7758.2	7751.7
15°	8487.7	8448.8	8322.3	8186.1	8033.8	7881.4	7761.4	7686.9	7628.5	7612.3	7648.0
17.5°	8717.8	8636.8	8461.7	8273.7	8046.7	7849.0	7660.9	7508.6	7404.8	7375.6	7385.4
20°	8996.7	8889.7	8653.0	8358.0	8037.0	7732.3	7440.5	7236.2	7067.6	7015.8	7022.3
22.5°	9382.5	9197.7	8850.8	8400.1	7956.0	7511.8	7106.5	6840.7	6636.5	6555.4	6604.0
25°	9820.1	9619.1	9038.8	8390.4	7745.2	7158.4	6711.0	6364.1	6179.3	6059.4	6085.3
27.5°	10423.2	10066.5	9239.8	8302.9	7443.7	6727.2	6208.5	5881.1	5712.5	5650.9	5680.1
30°	11194.8	10646.9	9457.0	8066.2	6967.1	6182.6	5702.7	5488.8	5388.3	5310.5	5336.4
32.5°	11752.4	11055.3	9505.7	7667.4	6451.7	5686.5	5359.1	5200.2	5090.0	5015.4	5031.6
35°	12151.2	11402.2	9483.0	7177.9	5913.5	5278.0	5086.8	4957.1	4778.8	4616.7	4587.5
37.5°	12686.1	11836.7	9317.6	6642.9	5381.8	5002.5	4866.3	4626.4	4370.3	4153.1	4143.3
40°	13506.3	12345.7	8964.2	6014.0	4927.9	4798.2	4632.9	4321.6	4046.1	3871.0	3858.0
42.5°	14352.5	12815.8	8484.4	5352.6	4555.1	4584.2	4383.2	4075.2	3906.7	3793.2	3780.2
45°	15386.7	13324.8	7965.7	4778.8	4279.5	4383.2	4166.0	3987.7	3887.2	3812.6	3793.2
47.5°	16505.2	13846.7	7382.1	4263.3	4046.1	4198.4	4075.2	3994.2	3939.1	3887.2	3864.5
50°	17711.3	14430.3	6834.2	3848.3	3835.3	4007.2	4065.5	4036.3	4003.9	3987.7	3968.3
52.5°	19034.0	15026.8	6373.8	3556.5	3650.5	3871.0	4068.8	4091.5	4091.5	4081.7	4068.8
55°	19928.8	15441.8	5907.0	3319.8	3462.5	3760.8	4062.3	4149.8	4182.2	4169.3	4156.3
57.5°	20590.2	15668.8	5320.2	3115.6	3303.6	3653.8	4026.6	4156.3	4188.7	4204.9	4198.4
60°	20726.3	15458.0	4551.8	2901.6	3131.8	3498.2	3896.9	4059.0	4101.2	4201.7	4211.4
62.5°	20113.6	14809.6	3786.7	2690.9	2921.1	3261.5	3721.9	3948.8	4033.1	4188.7	4204.9
64°	19361.4	14083.4	3362.0	2558.0	2784.9	3128.6	3634.3	3919.6	4029.9	4237.3	4250.3
65°	18810.3	13555.0	3096.1	2473.7	2697.4	3041.0	3585.7	3929.3	4059.0	4311.9	4331.4
67.5°	16780.8	11736.2	2561.2	2275.9	2489.9	2891.9	3595.4	4010.4	4052.5	4341.1	4337.8
70°	13885.6	9343.6	2146.2	2094.4	2288.9	2771.9	3556.5	3880.7	3884.0	4075.2	4029.9
72.5°	10397.2	6905.5	1860.9	1906.3	2065.2	2486.6	3358.8	3705.6	3650.5	3676.5	3631.1
75°	7142.2	4568.0	1601.6	1705.3	1831.8	2198.1	3079.9	3365.2	3277.7	3245.3	3212.9
77.5°	3812.6	2525.5	1332.5	1507.5	1591.8	1899.8	2687.6	2963.2	2872.4	2746.0	2703.9
80°	1543.2	1189.8	1073.1	1248.2	1296.8	1530.2	2237.0	2408.8	2340.8	2120.3	2049.0
82.5°	774.8	713.2	842.9	982.3	985.6	1092.6	1663.2	1825.3	1672.9	1403.8	1342.2
85°	405.3	418.2	580.3	690.6	609.5	590.1	998.5	1105.5	1014.8	881.8	794.3
87.5°	145.9	168.6	304.8	301.5	214.0	113.5	220.5	107.0	58.4	35.7	45.4
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)