

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: P383515

Luminaire Tested: **GLEON-SA8A-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383515
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34800.7 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

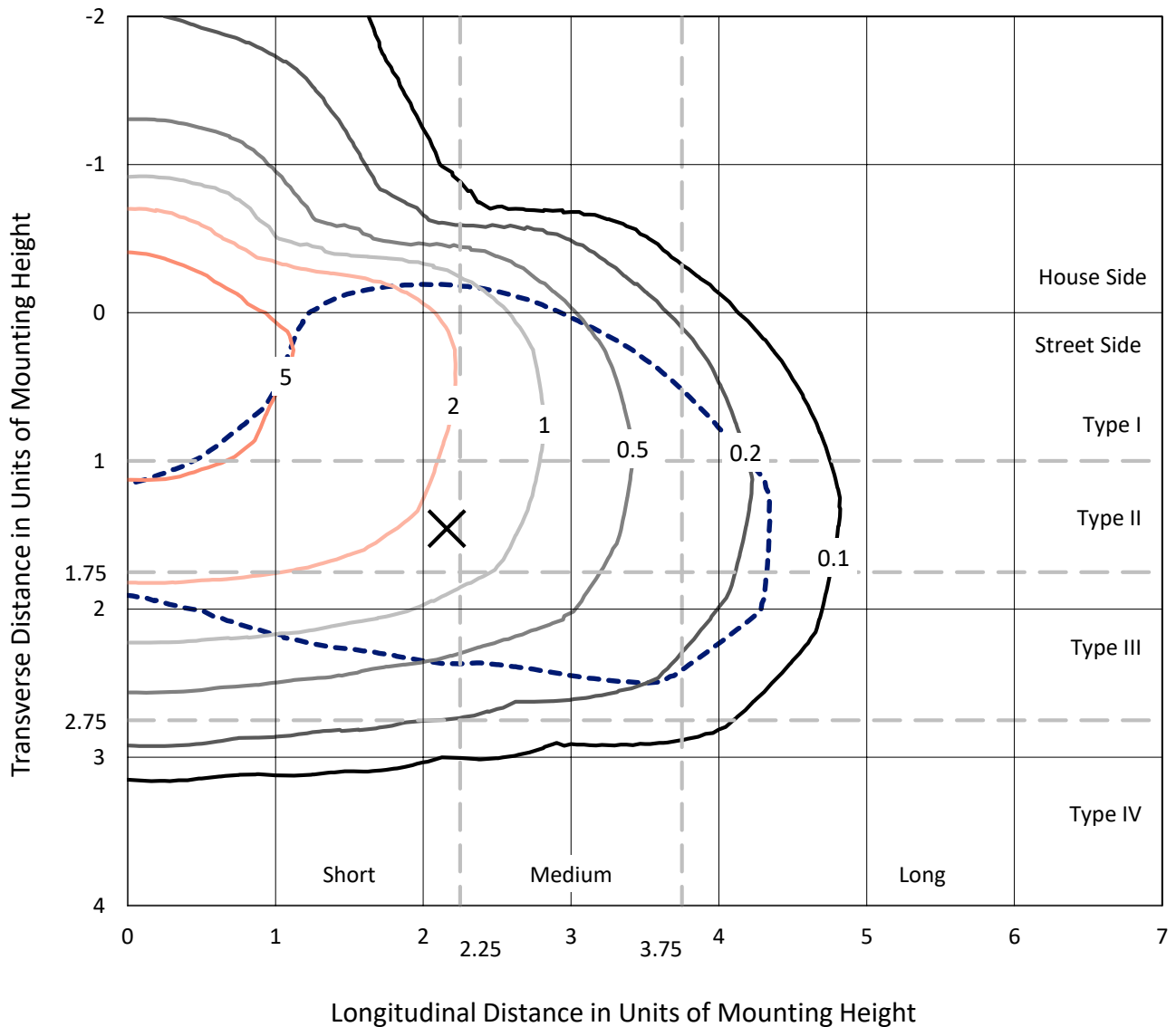
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

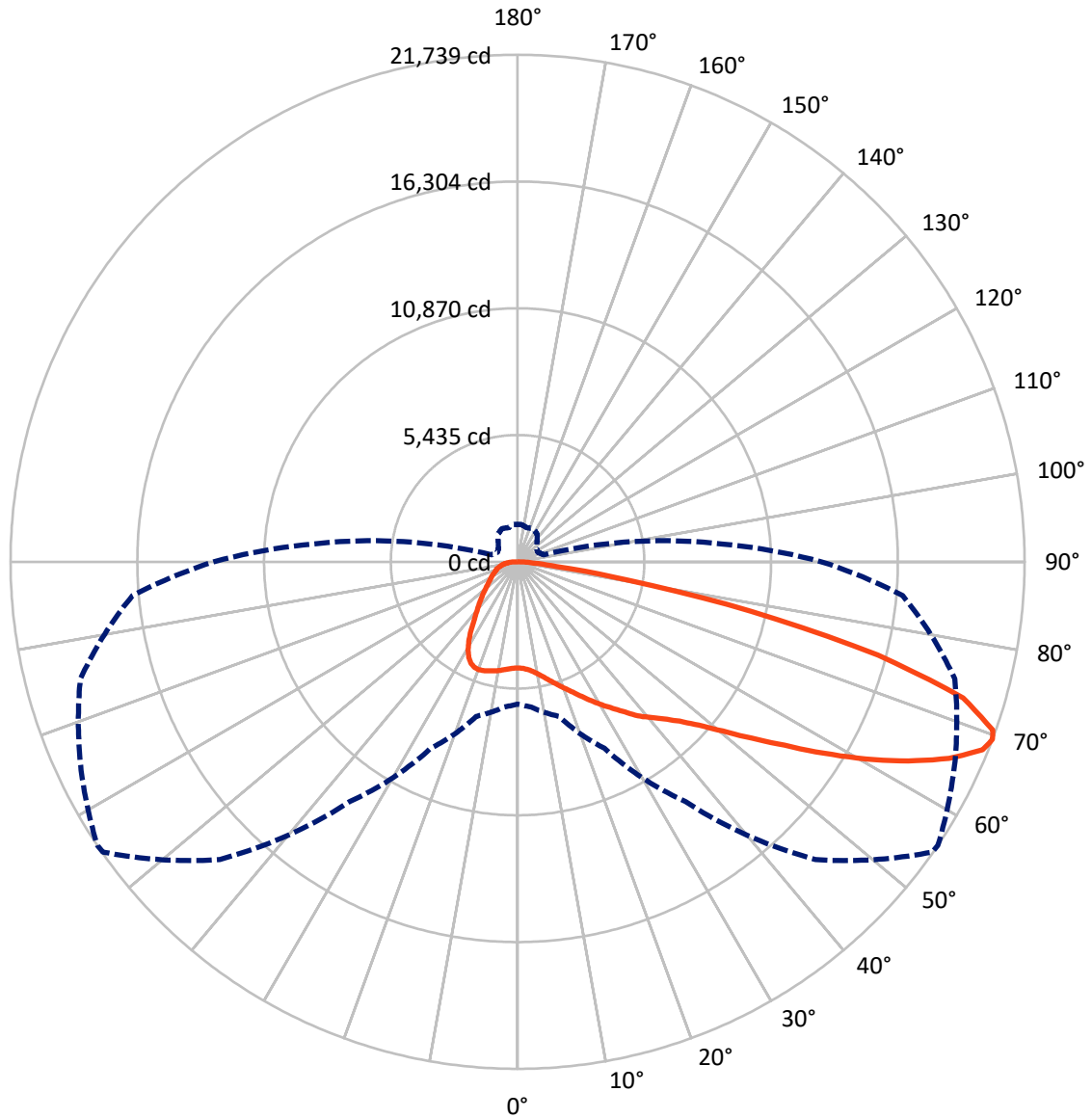
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7750.1	0.0	7750.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	27050.7	0.0	27050.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	34800.7	0.0	34800.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.8	1.3
10°-20°	1436.9	4.1
20°-30°	2508.3	7.2
30°-40°	3603.0	10.4
40°-50°	4986.4	14.3
50°-60°	7305.8	21.0
60°-70°	8907.1	25.6
70°-80°	4924.4	14.2
80°-90°	682.0	2.0
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°	34800.7	100.0
0°-180°	34800.7	100.0



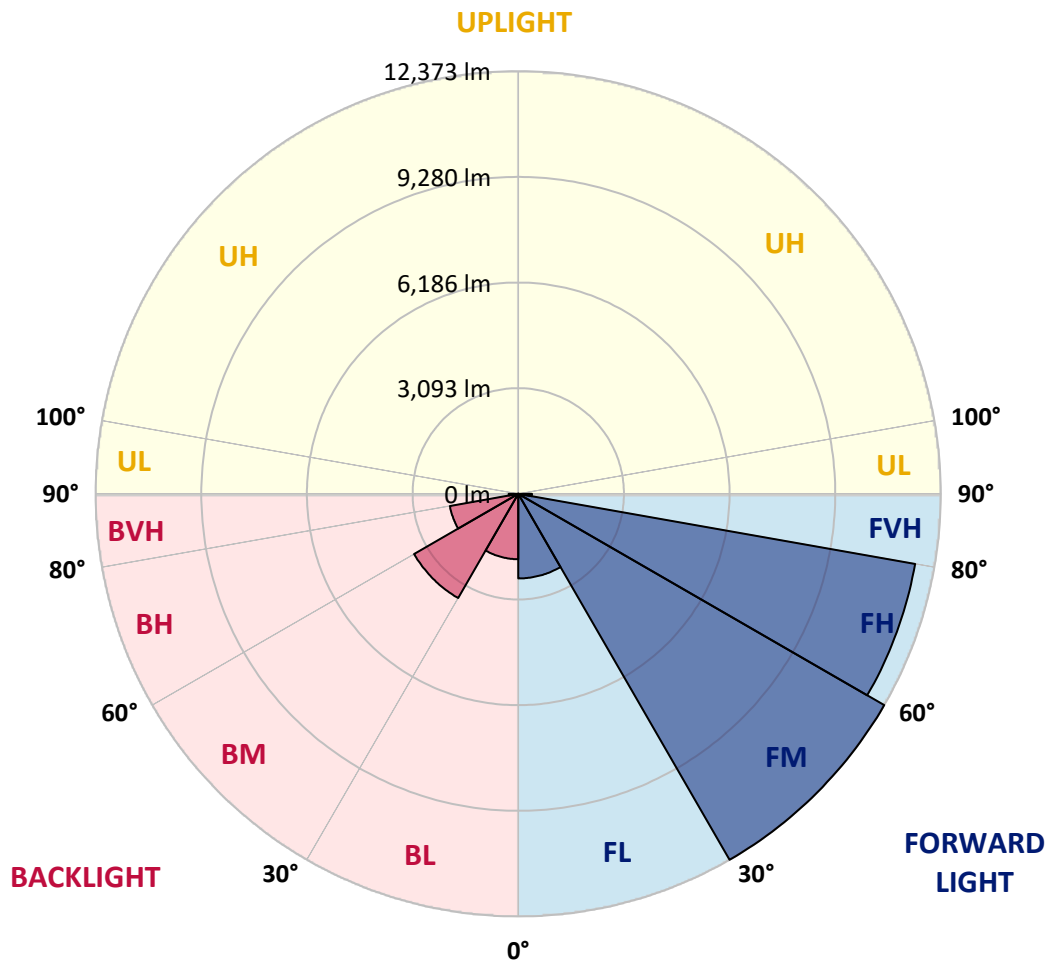
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2476.8	7.1			
FM (30°-60°)	12373.0	35.6			
FH (60°-80°)	11799.2	33.9			G4/12000
FVH (80°-90°)	401.7	1.2			G3/500
BL (0°-30°)	1915.2	5.5	B3/2500		
BM (30°-60°)	3522.2	10.1	B3/5000		
BH (60°-80°)	2032.3	5.8	B3/2500		G3/2500
BVH (80°-90°)	280.3	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7
2.5°	4578.5	4583.2	4579.7	4589.3	4578.5	4585.6	4579.7	4579.7	4576.0	4565.2	4553.3
5°	4650.4	4660.0	4654.0	4663.6	4650.4	4652.8	4642.0	4642.0	4631.2	4608.5	4584.4
7.5°	4763.1	4773.9	4769.1	4778.7	4760.7	4760.7	4746.3	4745.1	4723.5	4686.3	4658.8
10°	4897.3	4911.8	4906.9	4921.4	4906.9	4911.8	4897.3	4897.3	4868.5	4815.8	4781.1
12.5°	5092.8	5110.7	5097.5	5096.3	5090.3	5099.9	5087.9	5085.6	5059.2	4987.2	4939.3
15°	5354.1	5373.3	5345.7	5343.4	5309.7	5306.2	5306.2	5302.6	5285.8	5199.4	5120.3
17.5°	5655.1	5661.0	5637.1	5598.7	5555.6	5528.0	5524.4	5534.0	5534.0	5433.3	5307.4
20°	5950.0	5960.7	5941.6	5898.4	5843.2	5802.5	5773.7	5792.9	5791.7	5671.8	5493.1
22.5°	6271.3	6296.4	6267.6	6212.5	6147.7	6102.2	6051.9	6068.7	6069.9	5922.4	5675.4
25°	6687.2	6664.5	6646.5	6568.5	6476.2	6429.4	6382.8	6399.5	6394.7	6192.1	5863.6
27.5°	7055.3	7060.1	7036.1	6953.4	6846.7	6743.6	6741.2	6752.0	6734.0	6472.7	6041.1
30°	7483.3	7485.7	7452.1	7377.8	7261.5	7128.4	7097.3	7115.3	7076.9	6738.8	6228.0
32.5°	7908.8	7920.9	7883.7	7793.8	7700.3	7538.5	7476.1	7488.1	7392.2	7010.9	6421.1
35°	8281.7	8298.5	8286.5	8226.6	8124.7	7985.6	7911.3	7904.1	7785.4	7344.2	6676.5
37.5°	8661.8	8677.4	8664.1	8613.8	8573.0	8425.6	8386.1	8386.1	8179.8	7684.7	7001.3
40°	9052.6	9076.5	9061.0	8991.5	8956.6	8889.6	8794.8	8772.1	8549.1	8093.5	7531.3
42.5°	9415.8	9447.0	9509.3	9468.6	9397.8	9407.4	9216.8	9204.8	9041.8	8697.8	8196.6
45°	9931.3	9976.9	10082.4	10051.2	10036.9	9984.1	9757.5	9746.7	9684.4	9510.5	9022.6
47.5°	10493.6	10555.9	10746.6	10752.6	10907.2	10807.7	10499.7	10462.5	10476.8	10484.0	10030.9
50°	11011.5	11079.8	11392.7	11540.2	11904.7	11926.2	11433.5	11400.0	11456.3	11621.7	11205.8
52.5°	11425.2	11511.4	11902.3	12357.8	12982.4	13159.9	12583.3	12558.1	12600.0	12885.4	12534.1
55°	11728.5	11822.0	12247.5	13077.2	14074.7	14387.6	13906.8	13882.8	13909.2	14272.4	13978.7
57.5°	11799.2	11822.0	12439.4	13561.5	14996.5	15748.2	15526.5	15478.5	15349.0	15665.5	15573.2
60°	11467.1	11558.2	12281.2	13731.8	15709.9	17089.8	17219.2	17159.3	16796.0	17055.0	16980.6
62.5°	10793.4	10956.4	11690.1	13472.8	15989.2	18185.5	18879.7	18807.8	18181.9	18349.7	17992.5
65°	9692.8	9762.3	10533.2	12579.6	15634.3	18886.8	20360.3	20324.3	19536.6	19274.1	18179.5
67.5°	7724.3	7854.9	8509.5	10713.0	14182.5	18804.1	21505.1	21501.5	20421.4	19617.0	17516.5
69°	6102.2	6237.6	6861.0	8824.8	12549.7	18047.6	21697.0	21739.0	20670.8	19408.3	16569.4
70°	4865.0	5022.1	5450.0	7432.9	11100.2	17050.2	21537.6	21613.0	20622.8	19064.3	15695.5
72.5°	2070.5	2197.5	2502.0	3831.5	6765.2	12731.9	19692.5	19977.8	19511.5	17448.3	12971.7
75°	904.0	943.5	1081.3	1562.1	3003.1	6929.4	15426.9	15954.4	16683.4	14748.4	9662.9
77.5°	661.8	678.5	754.1	917.1	1347.5	2617.1	9920.6	10227.5	12031.8	10732.2	5927.2
80°	511.9	523.9	582.7	673.8	879.9	1058.6	4524.5	4788.2	6765.2	5512.3	2468.4
82.5°	407.6	416.0	456.7	496.3	607.8	641.4	1502.2	1666.4	2497.2	1522.5	653.4
85°	378.9	388.5	402.8	362.1	389.7	376.4	649.8	679.8	754.1	598.2	273.3
87.5°	171.4	202.6	399.3	281.7	207.4	165.4	266.1	278.2	312.9	314.1	121.1
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°	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7
2.5°	4560.5	4556.9	4562.9	4548.5	4566.4	4565.2	4559.3	4561.7	4573.6	4572.4	4573.6
5°	4588.1	4585.6	4592.8	4582.0	4603.6	4610.8	4612.0	4622.8	4636.0	4639.6	4639.6
7.5°	4657.6	4657.6	4661.2	4646.7	4661.2	4660.0	4654.0	4664.7	4678.0	4679.2	4678.0
10°	4777.4	4778.7	4772.7	4735.5	4723.5	4691.2	4661.2	4662.4	4679.2	4692.3	4695.9
12.5°	4928.5	4923.7	4897.3	4829.0	4778.7	4712.7	4681.6	4680.4	4697.1	4707.9	4711.5
15°	5101.2	5087.9	5019.6	4908.1	4819.5	4754.7	4704.3	4692.3	4682.7	4670.8	4672.0
17.5°	5264.2	5234.2	5120.3	4965.7	4872.2	4785.8	4688.8	4610.8	4556.9	4525.7	4516.1
20°	5429.6	5370.9	5206.6	5019.6	4901.0	4743.9	4556.9	4398.6	4300.3	4254.8	4246.4
22.5°	5580.7	5486.0	5287.0	5076.0	4878.1	4602.4	4308.7	4078.5	3941.8	3880.7	3885.5
25°	5728.2	5596.3	5370.9	5115.5	4763.1	4353.0	3963.5	3680.5	3522.3	3453.9	3451.5
27.5°	5857.7	5707.8	5462.0	5083.2	4548.5	3998.2	3554.6	3278.9	3147.0	3088.3	3078.7
30°	6006.2	5848.1	5583.1	4959.7	4234.3	3588.2	3155.4	2961.2	2867.7	2808.9	2798.2
32.5°	6187.3	6038.7	5682.6	4735.5	3832.8	3160.2	2843.7	2708.2	2623.1	2557.2	2545.2
35°	6451.1	6290.5	5707.8	4414.2	3391.6	2822.1	2614.7	2475.7	2360.5	2275.4	2267.0
37.5°	6781.9	6605.7	5650.2	3998.2	2963.6	2602.7	2424.1	2252.7	2102.8	1982.9	1963.7
40°	7259.1	6992.9	5490.8	3518.6	2648.3	2433.7	2238.2	2042.9	1857.0	1716.7	1689.2
42.5°	7832.2	7447.4	5246.2	3041.5	2416.9	2262.3	2053.7	1811.5	1634.0	1534.5	1520.2
45°	8561.0	7919.6	4906.9	2624.3	2189.1	2090.9	1854.6	1631.6	1521.3	1448.2	1436.3
47.5°	9393.1	8449.6	4550.9	2285.0	1996.1	1930.2	1695.2	1551.3	1463.8	1406.3	1395.5
50°	10415.7	9047.8	4173.2	2006.9	1801.9	1737.1	1619.7	1507.0	1437.5	1393.0	1382.3
52.5°	11569.0	9722.7	3901.1	1787.5	1641.2	1594.5	1580.1	1483.0	1426.7	1393.0	1382.3
55°	12811.0	10409.7	3607.3	1602.9	1502.2	1515.3	1553.7	1485.4	1447.1	1406.3	1390.7
57.5°	14054.3	11119.4	3280.1	1447.1	1391.9	1456.7	1535.7	1490.2	1457.8	1418.3	1403.8
60°	15037.3	11569.0	2772.9	1316.4	1304.4	1391.9	1492.6	1454.2	1412.2	1413.4	1411.0
62.5°	15496.5	11545.0	2213.1	1200.0	1216.9	1304.4	1423.0	1397.9	1363.1	1409.9	1413.4
65°	15238.7	10969.5	1722.8	1094.6	1123.4	1213.2	1351.1	1370.3	1382.3	1472.2	1484.2
67.5°	14157.4	9849.8	1334.3	1002.3	1038.2	1150.9	1358.3	1492.6	1508.2	1602.9	1601.7
69°	13038.8	8799.7	1159.3	954.3	996.3	1166.5	1451.8	1570.5	1511.8	1612.5	1598.1
70°	12101.3	7968.8	1065.8	922.0	977.1	1194.1	1514.1	1569.3	1493.7	1580.1	1556.2
72.5°	9319.9	5732.9	904.0	862.0	912.4	1142.5	1532.1	1534.5	1451.8	1468.6	1427.9
75°	6392.3	3623.0	788.8	780.5	814.0	1029.8	1474.6	1466.2	1342.7	1318.8	1285.2
77.5°	3524.6	1840.3	670.2	702.6	725.3	912.4	1340.3	1328.3	1226.5	1176.1	1164.1
80°	1359.5	805.6	565.8	624.6	638.9	790.0	1174.9	1164.1	1079.0	1014.3	996.3
82.5°	513.1	422.0	467.5	540.7	535.9	652.2	995.1	989.0	906.3	811.7	782.9
85°	237.4	252.9	370.5	445.9	411.2	483.1	796.0	806.8	706.1	593.4	593.4
87.5°	100.7	141.5	262.5	336.8	276.9	326.1	583.8	557.4	511.9	354.8	333.3
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)