

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: P522820

Luminaire Tested: **GALN-SA6D-722-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-722-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33747 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

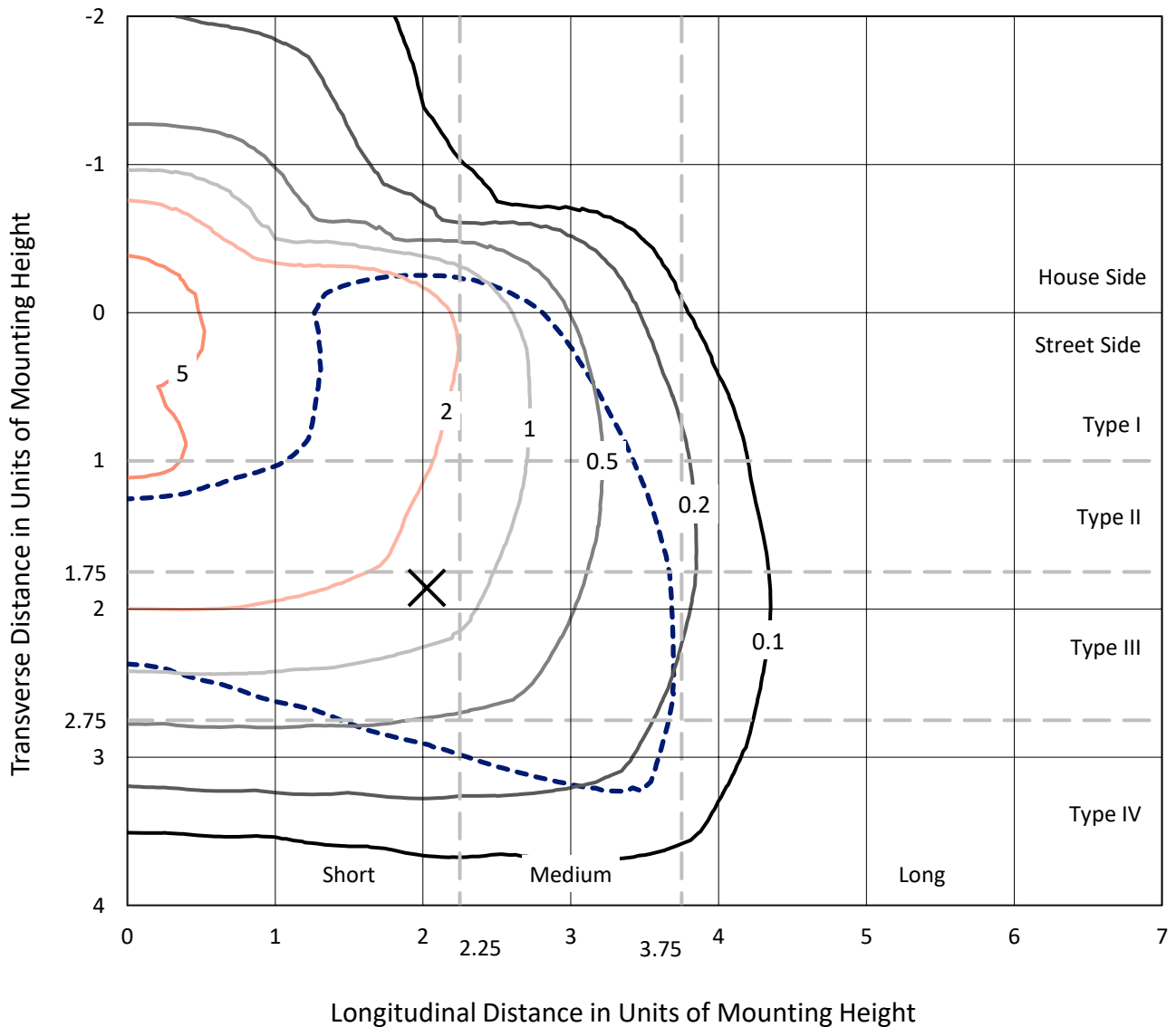
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

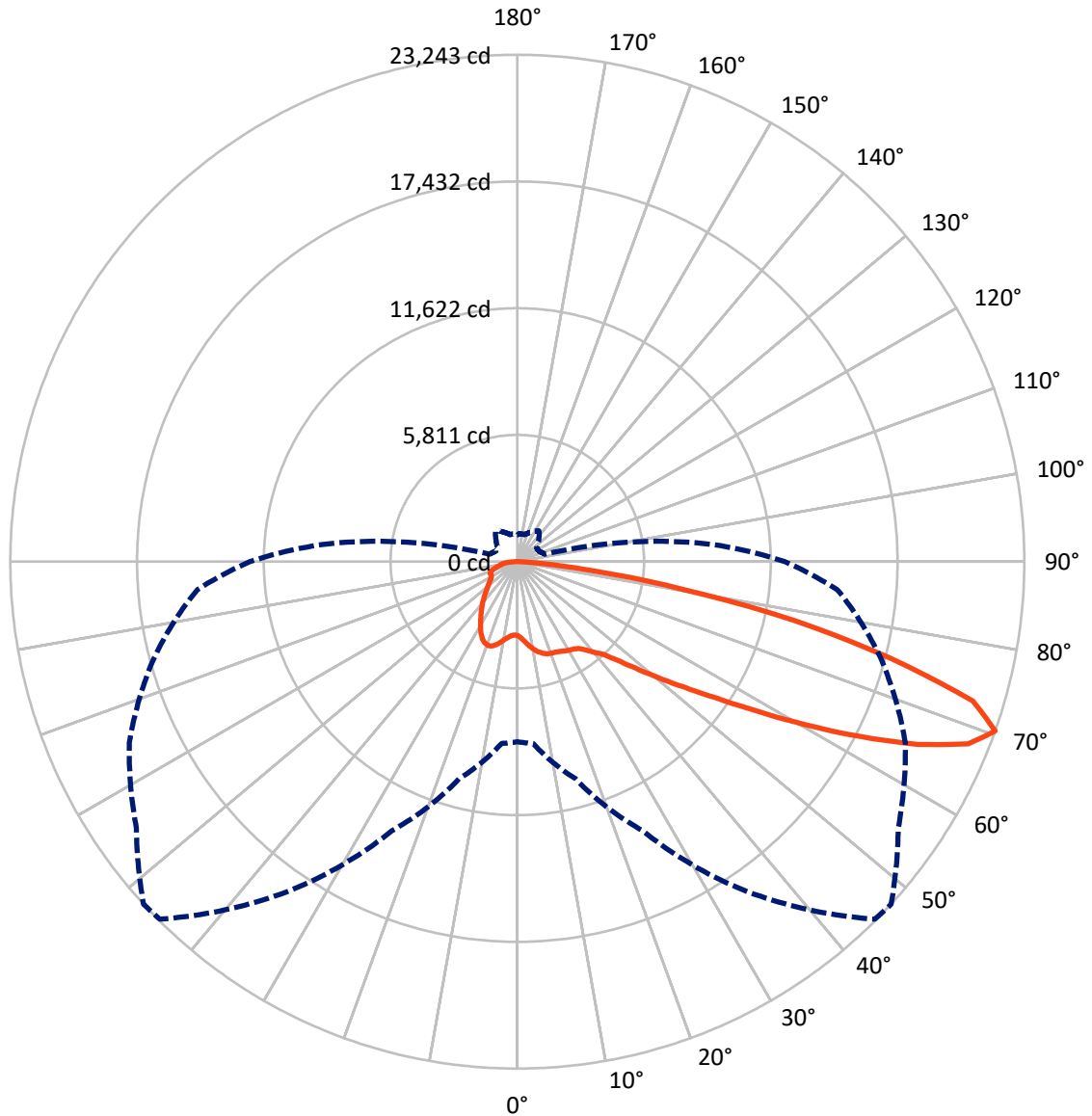
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7641.0	0.0	7641.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26106.0	0.0	26106.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	33747.0	0.0	33747.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.2	1.0
10°-20°	1167.4	3.5
20°-30°	1941.4	5.8
30°-40°	2751.7	8.2
40°-50°	4062.1	12.0
50°-60°	7035.7	20.8
60°-70°	9938.2	29.4
70°-80°	5713.0	16.9
80°-90°	788.3	2.3
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°	33747.0	100.0
0°-180°	33747.0	100.0

Coefficient of Utilization



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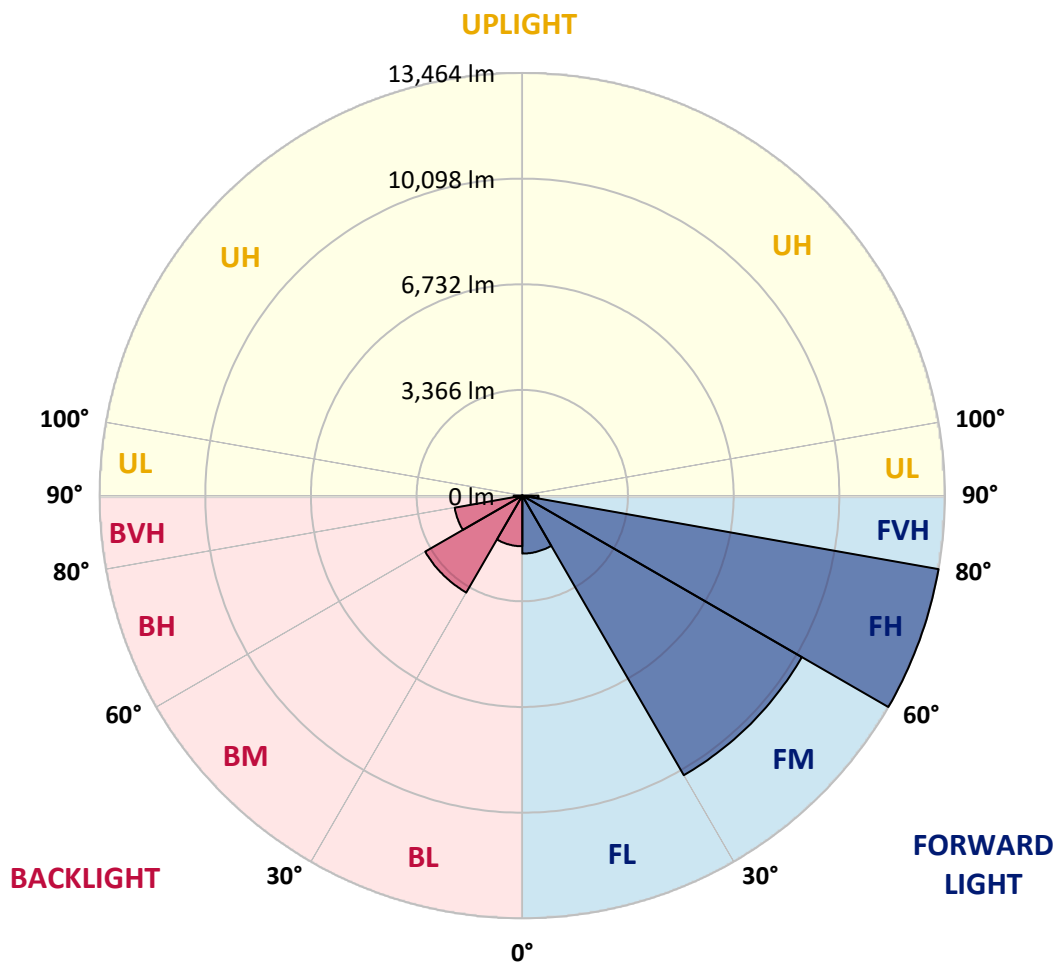
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1845.4	5.5			
FM	(30°-60°)	10282.1	30.5			
FH	(60°-80°)	13463.6	39.9			G5
FVH	(80°-90°)	514.9	1.5			G4/750
BL	(0°-30°)	1612.7	4.8	B3/2500		
BM	(30°-60°)	3567.4	10.6	B3/5000		
BH	(60°-80°)	2187.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	273.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8
2.5°	3606.3	3593.7	3591.9	3564.8	3550.3	3523.2	3512.4	3487.1	3456.4	3425.7	3396.8
5°	3889.8	3889.8	3877.2	3839.3	3779.7	3718.3	3691.2	3642.4	3555.7	3485.3	3425.7
7.5°	4180.6	4184.2	4158.9	4102.9	4018.0	3918.7	3893.4	3821.2	3698.4	3595.5	3507.0
10°	4431.6	4431.6	4397.3	4321.4	4214.9	4106.5	4081.2	4000.0	3862.7	3734.5	3618.9
12.5°	4623.0	4623.0	4577.9	4478.5	4363.0	4265.4	4236.5	4158.9	4030.7	3888.0	3741.7
15°	4747.6	4738.6	4688.0	4576.0	4464.1	4379.2	4359.3	4294.3	4177.0	4032.5	3868.2
17.5°	4753.0	4749.4	4700.7	4606.7	4509.2	4451.4	4438.8	4395.5	4303.4	4166.1	3992.8
20°	4648.3	4655.5	4623.0	4556.2	4509.2	4483.9	4478.5	4464.1	4399.1	4270.9	4097.5
22.5°	4536.3	4549.0	4518.3	4482.1	4478.5	4503.8	4507.4	4511.0	4469.5	4344.9	4186.0
25°	4509.2	4518.3	4487.6	4455.1	4474.9	4541.7	4556.2	4570.6	4538.1	4433.4	4290.7
27.5°	4646.5	4639.3	4579.7	4509.2	4521.9	4612.2	4632.0	4648.3	4632.0	4541.7	4420.7
30°	5034.7	5011.3	4892.1	4686.2	4621.2	4684.4	4704.3	4749.4	4749.4	4682.6	4561.6
32.5°	5684.8	5639.7	5421.2	5016.7	4790.9	4753.0	4772.9	4846.9	4884.9	4832.5	4700.7
35°	6474.0	6427.1	6114.6	5571.1	5101.6	4890.3	4884.9	4967.9	5069.0	4951.7	4780.1
37.5°	7266.8	7218.0	6842.4	6232.0	5554.8	5179.2	5146.7	5175.6	5218.9	5004.0	4890.3
40°	8059.6	8001.8	7673.1	6970.6	6109.2	5562.0	5477.2	5347.2	5329.1	5175.6	5103.4
42.5°	8845.1	8792.7	8626.6	7799.5	6773.8	5935.9	5805.8	5581.9	5650.5	5558.4	5495.2
45°	9637.9	9641.5	9464.5	8729.5	7575.6	6625.7	6450.5	6100.2	6262.7	6228.4	6264.5
47.5°	10340.4	10331.3	10268.1	9632.5	8570.6	7514.2	7288.4	6882.1	7160.2	7286.6	7562.9
50°	11021.2	11015.7	11019.4	10656.4	9726.4	8570.6	8321.4	7895.2	8521.9	8960.7	9455.5
52.5°	11996.3	12027.0	11808.5	11712.8	11131.3	9818.5	9544.0	9103.3	10130.9	10822.5	11788.7
55°	12975.1	12949.8	12778.3	12877.6	12601.3	11295.7	11008.5	10658.2	11922.3	12678.9	14130.9
57.5°	13551.2	13560.2	13735.4	14221.1	14416.2	13137.6	12877.6	12606.7	13935.8	14472.2	16214.8
60°	14069.5	14111.0	14614.8	15532.2	16061.3	15400.4	15169.2	14905.6	15783.2	15996.3	18024.3
62.5°	14232.0	14360.2	15239.6	16612.1	17664.9	17953.9	17666.7	17085.2	17542.1	17459.1	19250.5
65°	13421.1	13596.3	15172.8	17016.6	19097.0	20377.3	20194.9	19115.0	19041.0	18540.8	19450.9
67.5°	11286.6	11461.8	13486.2	16167.9	19689.3	22475.7	22293.3	20595.8	19951.1	18641.9	17934.0
70°	8258.2	8368.4	10304.2	13612.6	18499.2	23180.0	23243.2	21318.2	19626.1	17267.6	14725.0
72.5°	4758.4	5002.2	6358.4	9576.5	15113.2	21399.4	21838.3	19815.7	17571.0	14405.3	10295.2
75°	2046.0	2051.5	2939.9	5282.1	10235.6	17200.8	17625.2	16426.1	13798.6	9961.1	5497.0
77.5°	973.4	991.4	1293.0	2358.5	5634.3	11884.4	13029.3	11604.5	8825.2	4785.5	2076.7
80°	632.1	644.7	791.0	1170.2	2763.0	6891.2	7689.4	6694.3	3893.4	1710.1	895.7
82.5°	382.8	386.5	529.1	715.1	1520.5	3120.5	3678.5	2905.6	1661.4	1023.9	527.3
85°	233.0	234.8	321.4	442.4	922.8	1078.1	1107.0	1098.0	975.2	670.0	281.7
87.5°	112.0	115.6	166.1	209.5	363.0	334.1	316.0	366.6	460.5	361.2	121.0
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°	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8
2.5°	3384.2	3378.8	3366.1	3360.7	3357.1	3358.9	3357.1	3357.1	3358.9	3358.9	3358.9
5°	3400.4	3391.4	3371.5	3371.5	3382.4	3407.7	3431.1	3449.2	3469.1	3467.3	3467.3
7.5°	3470.9	3454.6	3431.1	3438.4	3465.4	3505.2	3546.7	3586.4	3626.2	3629.8	3628.0
10°	3573.8	3557.5	3532.3	3541.3	3584.6	3644.2	3696.6	3754.4	3797.7	3810.4	3806.8
12.5°	3691.2	3658.7	3637.0	3662.3	3730.9	3810.4	3860.9	3904.3	3935.0	3953.0	3945.8
15°	3810.4	3779.7	3754.4	3806.8	3889.8	3963.9	3989.1	3996.4	4001.8	4019.8	4016.2
17.5°	3925.9	3884.4	3875.4	3944.0	4023.5	4056.0	4041.5	4010.8	3987.3	4001.8	4000.0
20°	4028.9	3996.4	3992.8	4061.4	4092.1	4061.4	4000.0	3945.8	3904.3	3907.9	3906.1
22.5°	4126.4	4101.1	4104.7	4133.6	4084.9	3980.1	3879.0	3804.9	3759.8	3768.8	3774.2
25°	4234.7	4209.5	4218.5	4171.5	4010.8	3828.4	3682.1	3618.9	3600.9	3618.9	3631.6
27.5°	4375.6	4359.3	4353.9	4173.3	3879.0	3604.5	3438.4	3414.9	3431.1	3470.9	3490.7
30°	4527.3	4527.3	4498.4	4142.6	3698.4	3335.4	3191.0	3194.6	3250.5	3306.5	3326.4
32.5°	4673.6	4704.3	4614.0	4059.6	3465.4	3073.6	2963.4	2967.0	3015.8	3084.4	3102.5
35°	4794.6	4883.0	4713.3	3907.9	3191.0	2853.3	2770.2	2721.4	2723.2	2775.6	2790.1
37.5°	4960.7	5125.0	4771.1	3682.1	2898.4	2665.4	2571.5	2486.7	2430.7	2409.0	2409.0
40°	5249.6	5491.6	4785.5	3348.1	2622.1	2486.7	2353.0	2251.9	2143.6	2046.0	2028.0
42.5°	5739.0	6044.2	4756.6	2963.4	2372.9	2289.8	2159.8	2035.2	1885.3	1748.1	1737.2
45°	6605.8	6762.9	4679.0	2564.3	2150.8	2100.2	1973.8	1838.4	1679.4	1556.7	1547.6
47.5°	7994.5	7772.4	4576.0	2210.4	1948.5	1934.1	1836.6	1679.4	1520.5	1435.7	1426.6
50°	10022.5	9361.6	4561.6	1953.9	1786.0	1793.2	1713.8	1569.3	1430.2	1359.8	1349.0
52.5°	12464.0	11281.2	4657.3	1773.4	1643.3	1670.4	1630.7	1497.1	1374.3	1314.7	1303.8
55°	14833.3	13007.6	4715.1	1632.5	1509.7	1560.3	1565.7	1453.7	1341.8	1282.2	1274.9
57.5°	16756.6	14307.8	4458.7	1504.3	1394.1	1471.8	1511.5	1428.4	1325.5	1280.4	1273.1
60°	18094.7	14921.8	3729.1	1390.5	1309.2	1401.3	1491.6	1430.2	1365.2	1370.6	1374.3
62.5°	18520.9	14649.1	2797.3	1305.6	1251.5	1377.9	1524.1	1504.3	1437.5	1479.0	1486.2
65°	17814.8	13522.3	2028.0	1238.8	1200.9	1394.1	1621.7	1558.5	1412.2	1442.9	1442.9
67.5°	15450.9	11649.6	1578.3	1177.4	1143.1	1424.8	1719.2	1553.0	1352.6	1388.7	1356.2
70°	12256.4	9011.2	1314.7	1108.8	1081.7	1379.7	1728.2	1497.1	1282.2	1289.4	1228.0
72.5°	8133.6	5925.0	1130.5	1043.8	987.8	1240.6	1654.2	1424.8	1213.5	1172.0	1110.6
75°	3985.5	2954.4	986.0	962.5	865.0	1079.9	1553.0	1356.2	1139.5	1074.5	1040.2
77.5°	1544.0	1256.9	841.5	859.6	753.0	951.7	1419.4	1258.7	1042.0	953.5	926.4
80°	749.4	713.3	689.8	716.9	619.4	810.8	1296.6	1173.8	951.7	854.2	814.4
82.5°	465.9	440.6	529.1	558.0	476.7	740.4	1229.8	1101.6	837.9	707.9	675.4
85°	236.6	252.8	353.9	381.0	341.3	588.7	1013.1	827.1	605.0	502.0	505.6
87.5°	90.3	121.0	186.0	200.5	182.4	310.6	558.0	482.2	388.3	263.7	243.8
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)