

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: P522785

Luminaire Tested: **GALN-SA5D-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522785
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-SA5D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 32423 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

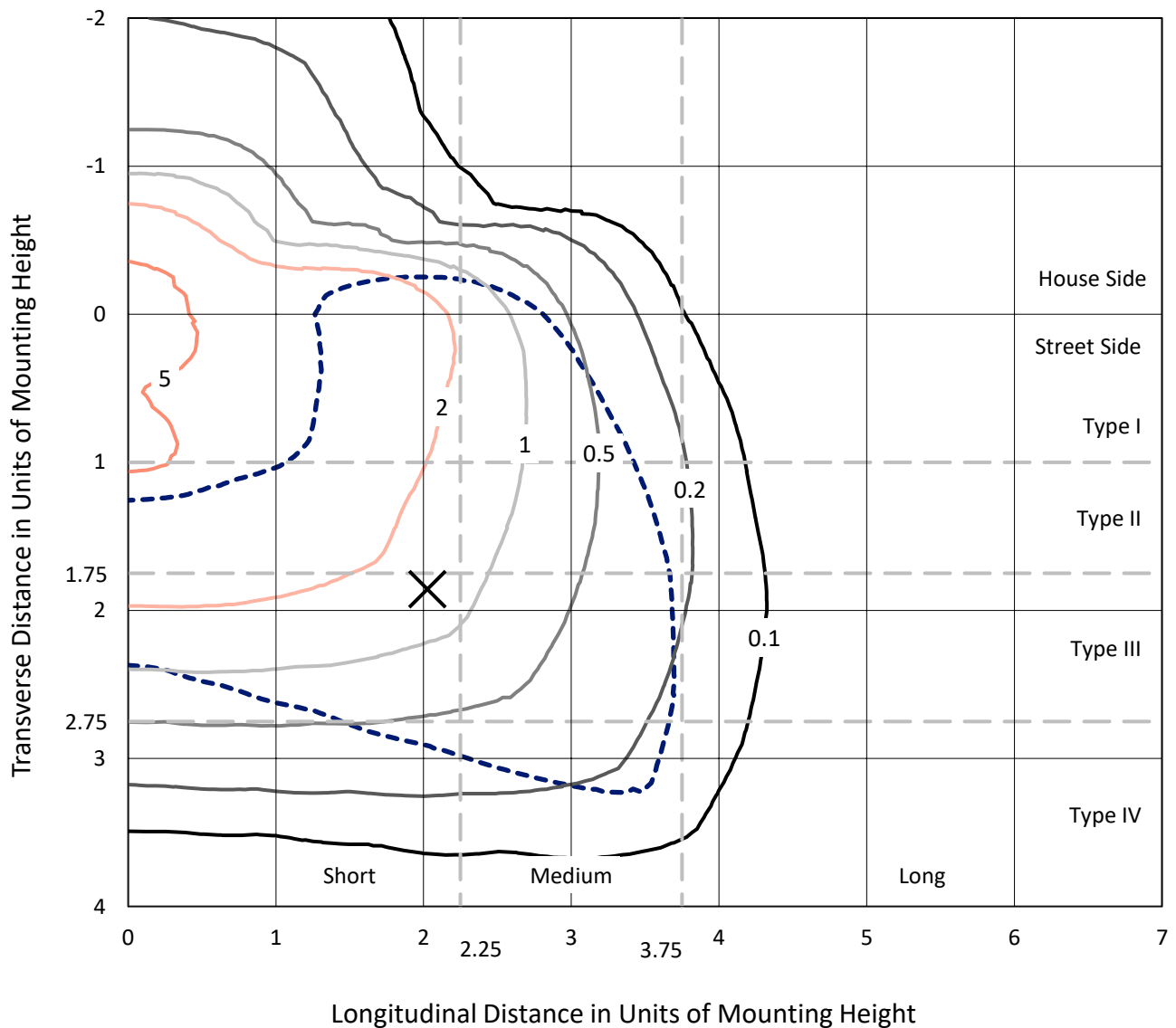
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

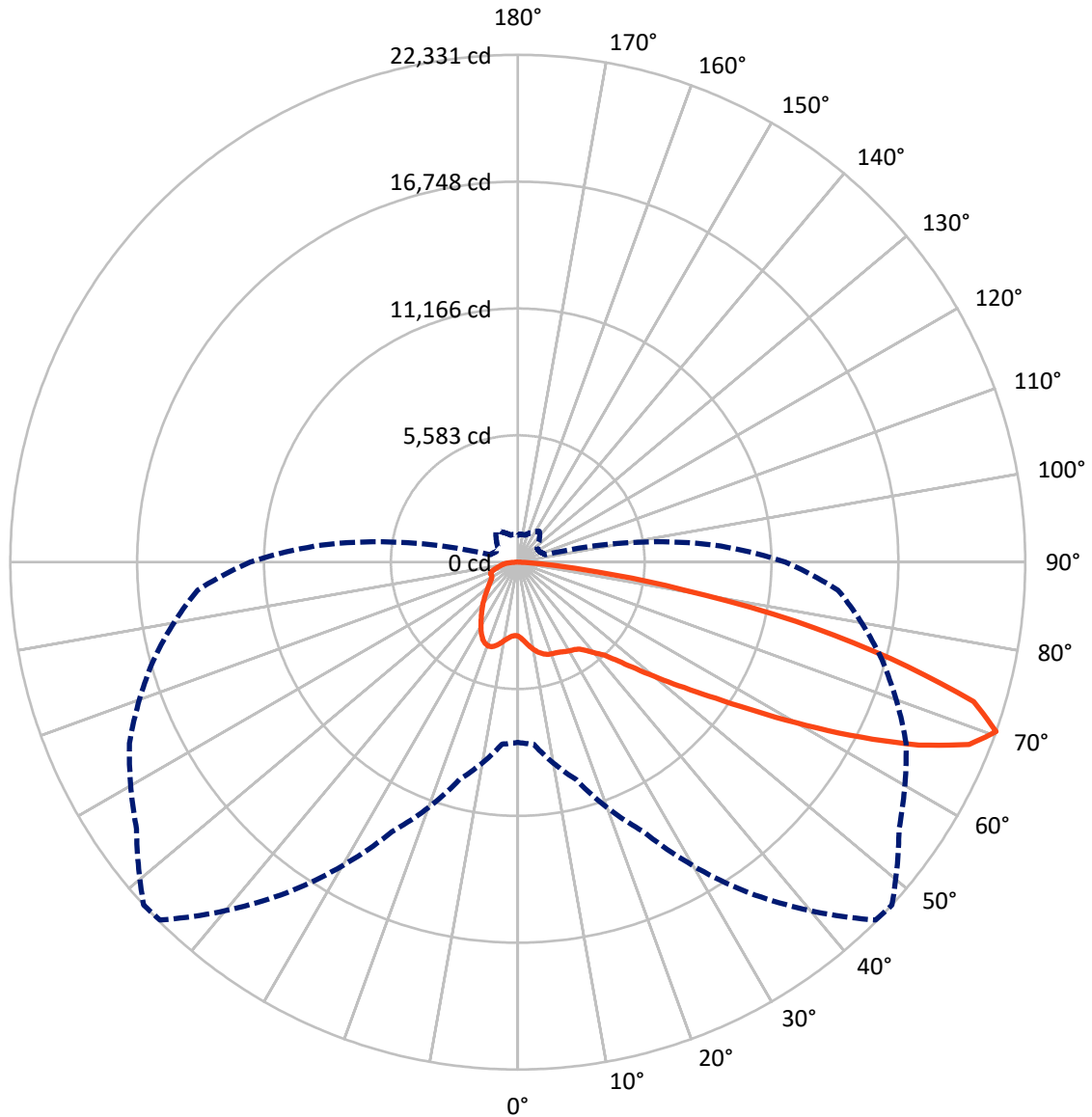
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	7341.2	0.0	7341.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25081.8	0.0	25081.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	32423.0	0.0	32423.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.5	1.0
10°-20°	1121.6	3.5
20°-30°	1865.3	5.8
30°-40°	2643.7	8.2
40°-50°	3902.7	12.0
50°-60°	6759.7	20.8
60°-70°	9548.3	29.4
70°-80°	5488.9	16.9
80°-90°	757.3	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°	32423.0	100.0
0°-180°	32423.0	100.0

Coefficient of Utilization



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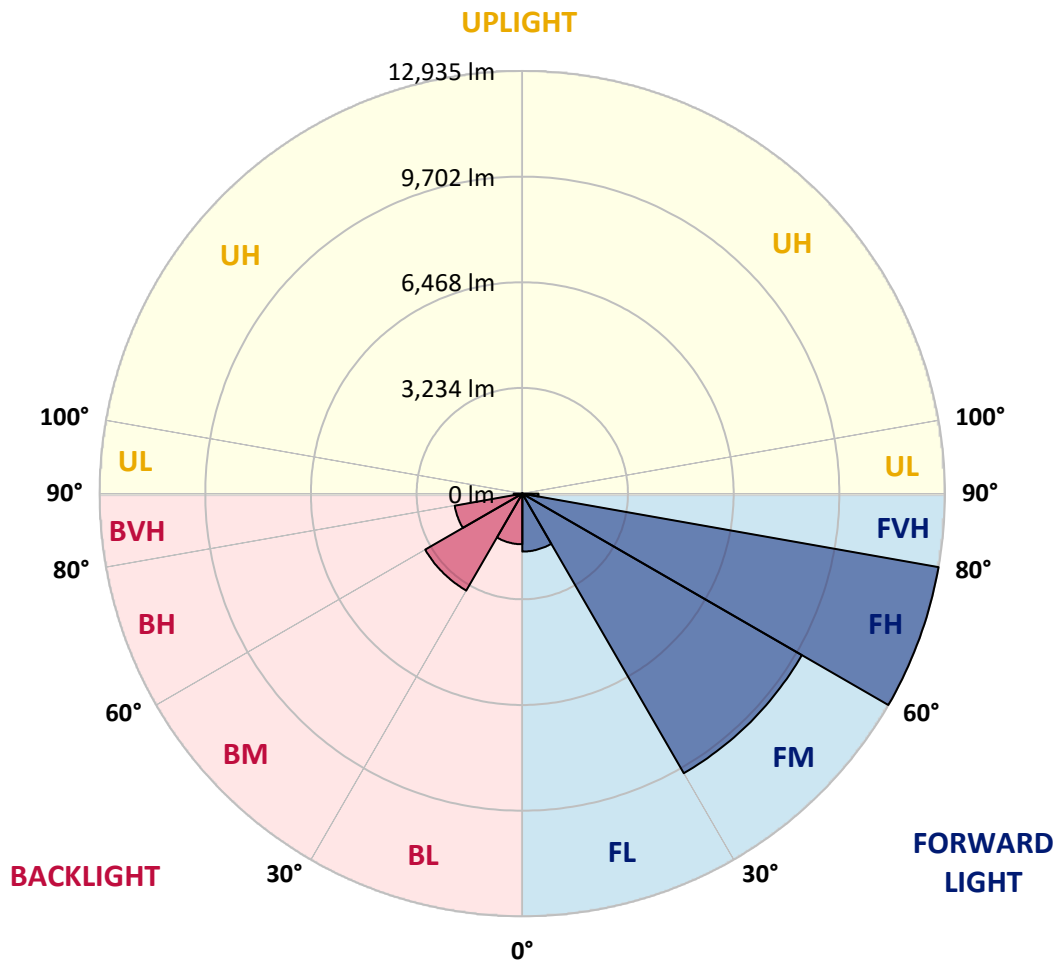
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1773.0	5.5			
FM	(30°-60°)	9878.7	30.5			
FH	(60°-80°)	12935.4	39.9			G5
FVH	(80°-90°)	494.7	1.5			G3/500
BL	(0°-30°)	1549.4	4.8	B3/2500		
BM	(30°-60°)	3427.5	10.6	B3/5000		
BH	(60°-80°)	2101.7	6.5	B3/2500		G3/2500
BVH	(80°-90°)	262.6	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°	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9
2.5°	3464.8	3452.7	3450.9	3424.9	3411.0	3385.0	3374.6	3350.3	3320.8	3291.3	3263.6
5°	3737.2	3737.2	3725.1	3688.6	3631.4	3572.4	3546.4	3499.5	3416.2	3348.6	3291.3
7.5°	4016.5	4020.0	3995.7	3941.9	3860.4	3765.0	3740.7	3671.3	3553.3	3454.4	3369.4
10°	4257.7	4257.7	4224.7	4151.9	4049.5	3945.4	3921.1	3843.0	3711.2	3588.0	3477.0
12.5°	4441.6	4441.6	4398.3	4302.8	4191.8	4098.1	4070.3	3995.7	3872.5	3735.5	3594.9
15°	4561.3	4552.7	4504.1	4396.5	4288.9	4207.4	4188.3	4125.9	4013.1	3874.3	3716.4
17.5°	4566.5	4563.1	4516.2	4426.0	4332.3	4276.8	4264.7	4223.0	4134.5	4002.7	3836.1
20°	4465.9	4472.9	4441.6	4377.4	4332.3	4308.0	4302.8	4288.9	4226.5	4103.3	3936.7
22.5°	4358.3	4370.5	4341.0	4306.3	4302.8	4327.1	4330.6	4334.1	4294.2	4174.4	4021.8
25°	4332.3	4341.0	4311.5	4280.3	4299.4	4363.6	4377.4	4391.3	4360.1	4259.4	4122.4
27.5°	4464.2	4457.2	4400.0	4332.3	4344.5	4431.2	4450.3	4465.9	4450.3	4363.6	4247.3
30°	4837.2	4814.7	4700.1	4502.4	4439.9	4500.6	4519.7	4563.1	4563.1	4498.9	4382.6
32.5°	5461.8	5418.4	5208.5	4819.9	4603.0	4566.5	4585.6	4656.8	4693.2	4642.9	4516.2
35°	6220.0	6174.9	5874.7	5352.5	4901.4	4698.4	4693.2	4773.0	4870.2	4757.4	4592.6
37.5°	6981.7	6934.8	6574.0	5987.5	5336.9	4976.0	4944.8	4972.5	5014.2	4807.7	4698.4
40°	7743.4	7687.8	7372.1	6697.1	5869.5	5343.8	5262.3	5137.4	5120.0	4972.5	4903.1
42.5°	8498.1	8447.8	8288.1	7493.5	6508.0	5703.0	5578.1	5362.9	5428.8	5340.4	5279.6
45°	9259.7	9263.2	9093.2	8387.0	7278.4	6365.8	6197.5	5860.9	6017.0	5984.1	6018.8
47.5°	9934.7	9926.0	9865.3	9254.5	8234.4	7219.4	7002.5	6612.1	6879.3	7000.8	7266.2
50°	10588.8	10583.6	10587.0	10238.3	9344.8	8234.4	7994.9	7585.5	8187.5	8609.1	9084.5
52.5°	11525.7	11555.2	11345.2	11253.3	10694.6	9433.3	9169.5	8746.2	9733.4	10397.9	11326.1
55°	12466.0	12441.8	12276.9	12372.4	12106.9	10852.5	10576.6	10240.0	11454.5	12181.5	13576.5
57.5°	13019.5	13028.2	13196.5	13663.2	13850.6	12622.2	12372.4	12112.1	13389.1	13904.4	15578.7
60°	13517.5	13557.4	14041.4	14922.8	15431.2	14796.2	14574.1	14320.8	15164.0	15368.7	17317.1
62.5°	13673.6	13796.8	14641.8	15960.4	16971.9	17249.5	16973.6	16414.9	16853.9	16774.1	18495.2
65°	12894.6	13062.9	14577.6	16349.0	18347.7	19577.9	19402.6	18365.1	18293.9	17813.3	18687.8
67.5°	10843.8	11012.1	12957.1	15533.5	18916.8	21593.9	21418.7	19787.8	19168.4	17910.5	17230.4
70°	7934.2	8040.0	9900.0	13078.5	17773.4	22270.6	22331.3	20481.8	18856.1	16590.2	14147.3
72.5°	4571.8	4806.0	6109.0	9200.8	14520.3	20559.9	20981.5	19038.3	16881.6	13840.2	9891.3
75°	1965.8	1971.0	2824.6	5074.9	9834.0	16526.0	16933.7	15781.7	13257.2	9570.3	5281.4
77.5°	935.2	952.5	1242.3	2265.9	5413.2	11418.1	12518.1	11149.2	8479.0	4597.8	1995.3
80°	607.3	619.4	759.9	1124.3	2654.6	6620.8	7387.7	6431.7	3740.7	1643.1	860.6
82.5°	367.8	371.3	508.4	687.1	1460.9	2998.1	3534.2	2791.6	1596.2	983.8	506.6
85°	223.8	225.6	308.8	425.1	886.6	1035.8	1063.6	1054.9	936.9	643.7	270.7
87.5°	107.6	111.0	159.6	201.3	348.7	321.0	303.6	352.2	442.4	347.0	116.2
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°	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9	3254.9
2.5°	3251.4	3246.2	3234.1	3228.9	3225.4	3227.1	3225.4	3225.4	3227.1	3227.1	3227.1
5°	3267.0	3258.3	3239.3	3239.3	3249.7	3274.0	3296.5	3313.9	3333.0	3331.2	3331.2
7.5°	3334.7	3319.1	3296.5	3303.5	3329.5	3367.7	3407.6	3445.7	3483.9	3487.4	3485.6
10°	3433.6	3418.0	3393.7	3402.4	3444.0	3501.3	3551.6	3607.1	3648.7	3660.9	3657.4
12.5°	3546.4	3515.1	3494.3	3518.6	3584.5	3660.9	3709.5	3751.1	3780.6	3797.9	3791.0
15°	3660.9	3631.4	3607.1	3657.4	3737.2	3808.3	3832.6	3839.6	3844.8	3862.1	3858.7
17.5°	3771.9	3732.0	3723.3	3789.3	3865.6	3896.8	3883.0	3853.5	3830.9	3844.8	3843.0
20°	3870.8	3839.6	3836.1	3902.0	3931.5	3902.0	3843.0	3791.0	3751.1	3754.6	3752.8
22.5°	3964.5	3940.2	3943.7	3971.4	3924.6	3824.0	3726.8	3655.7	3612.3	3621.0	3626.2
25°	4068.6	4044.3	4053.0	4007.9	3853.5	3678.2	3537.7	3477.0	3459.6	3477.0	3489.1
27.5°	4203.9	4188.3	4183.1	4009.6	3726.8	3463.1	3303.5	3280.9	3296.5	3334.7	3353.8
30°	4349.7	4349.7	4321.9	3980.1	3553.3	3204.6	3065.8	3069.2	3123.0	3176.8	3195.9
32.5°	4490.2	4519.7	4433.0	3900.3	3329.5	2953.0	2847.2	2850.6	2897.5	2963.4	2980.7
35°	4606.5	4691.5	4528.4	3754.6	3065.8	2741.3	2661.5	2614.7	2616.4	2666.7	2680.6
37.5°	4766.1	4924.0	4583.9	3537.7	2784.7	2560.9	2470.7	2389.1	2335.3	2314.5	2314.5
40°	5043.7	5276.2	4597.8	3216.7	2519.2	2389.1	2260.7	2163.6	2059.5	1965.8	1948.4
42.5°	5513.9	5807.1	4570.0	2847.2	2279.8	2200.0	2075.1	1955.4	1811.4	1679.5	1669.1
45°	6346.7	6497.6	4495.4	2463.7	2066.4	2017.8	1896.4	1766.2	1613.6	1495.6	1486.9
47.5°	7680.9	7467.5	4396.5	2123.7	1872.1	1858.2	1764.5	1613.6	1460.9	1379.3	1370.7
50°	9629.3	8994.3	4382.6	1877.3	1715.9	1722.9	1646.5	1507.7	1374.1	1306.5	1296.1
52.5°	11975.0	10838.6	4474.6	1703.8	1578.9	1604.9	1566.7	1438.3	1320.3	1263.1	1252.7
55°	14251.4	12497.3	4530.1	1568.4	1450.5	1499.0	1504.3	1396.7	1289.1	1231.9	1224.9
57.5°	16099.2	13746.5	4283.7	1445.3	1339.4	1414.0	1452.2	1372.4	1273.5	1230.1	1223.2
60°	17384.8	14336.4	3582.8	1336.0	1257.9	1346.4	1433.1	1374.1	1311.7	1316.9	1320.3
62.5°	17794.3	14074.4	2687.5	1254.4	1202.4	1323.8	1464.3	1445.3	1381.1	1421.0	1427.9
65°	17115.9	12991.8	1948.4	1190.2	1153.8	1339.4	1558.0	1497.3	1356.8	1386.3	1386.3
67.5°	14844.7	11192.6	1516.4	1131.2	1098.3	1368.9	1651.7	1492.1	1299.5	1334.2	1303.0
70°	11775.5	8657.7	1263.1	1065.3	1039.3	1325.5	1660.4	1438.3	1231.9	1238.8	1179.8
72.5°	7814.5	5692.6	1086.1	1002.8	949.1	1192.0	1589.3	1368.9	1165.9	1126.0	1067.0
75°	3829.2	2838.5	947.3	924.8	831.1	1037.5	1492.1	1303.0	1094.8	1032.3	999.4
77.5°	1483.4	1207.6	808.5	825.9	723.5	914.4	1363.7	1209.3	1001.1	916.1	890.1
80°	720.0	685.3	662.8	688.8	595.1	779.0	1245.7	1127.8	914.4	820.7	782.5
82.5°	447.6	423.3	508.4	536.1	458.0	711.4	1181.5	1058.4	805.0	680.1	648.9
85°	227.3	242.9	340.1	366.1	327.9	565.6	973.3	794.6	581.2	482.3	485.8
87.5°	86.8	116.2	178.7	192.6	175.2	298.4	536.1	463.2	373.0	253.3	234.2
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)