

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: P522854

Luminaire Tested: **GALN-SA7C-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522854
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-SA7C-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36024 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

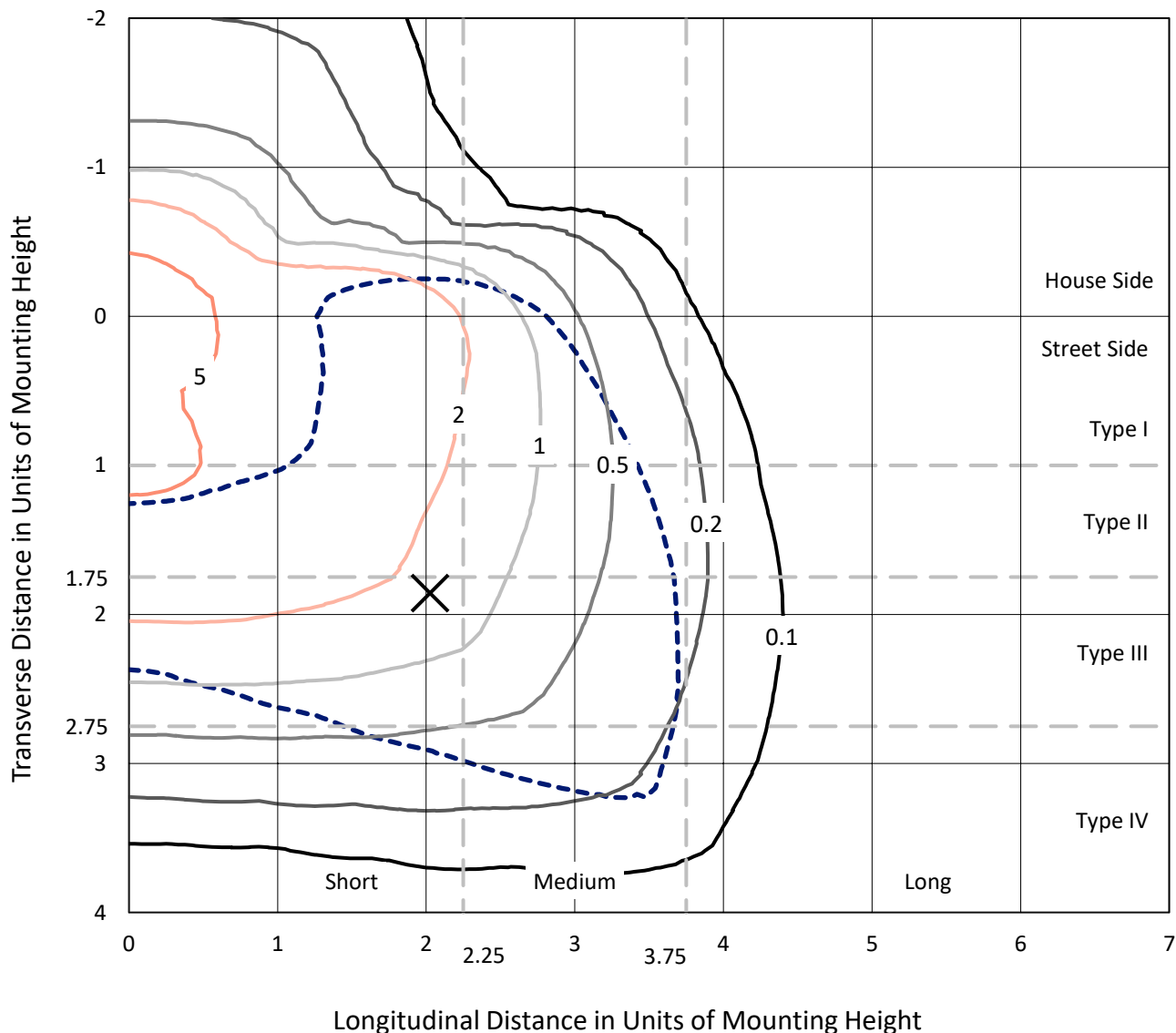
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

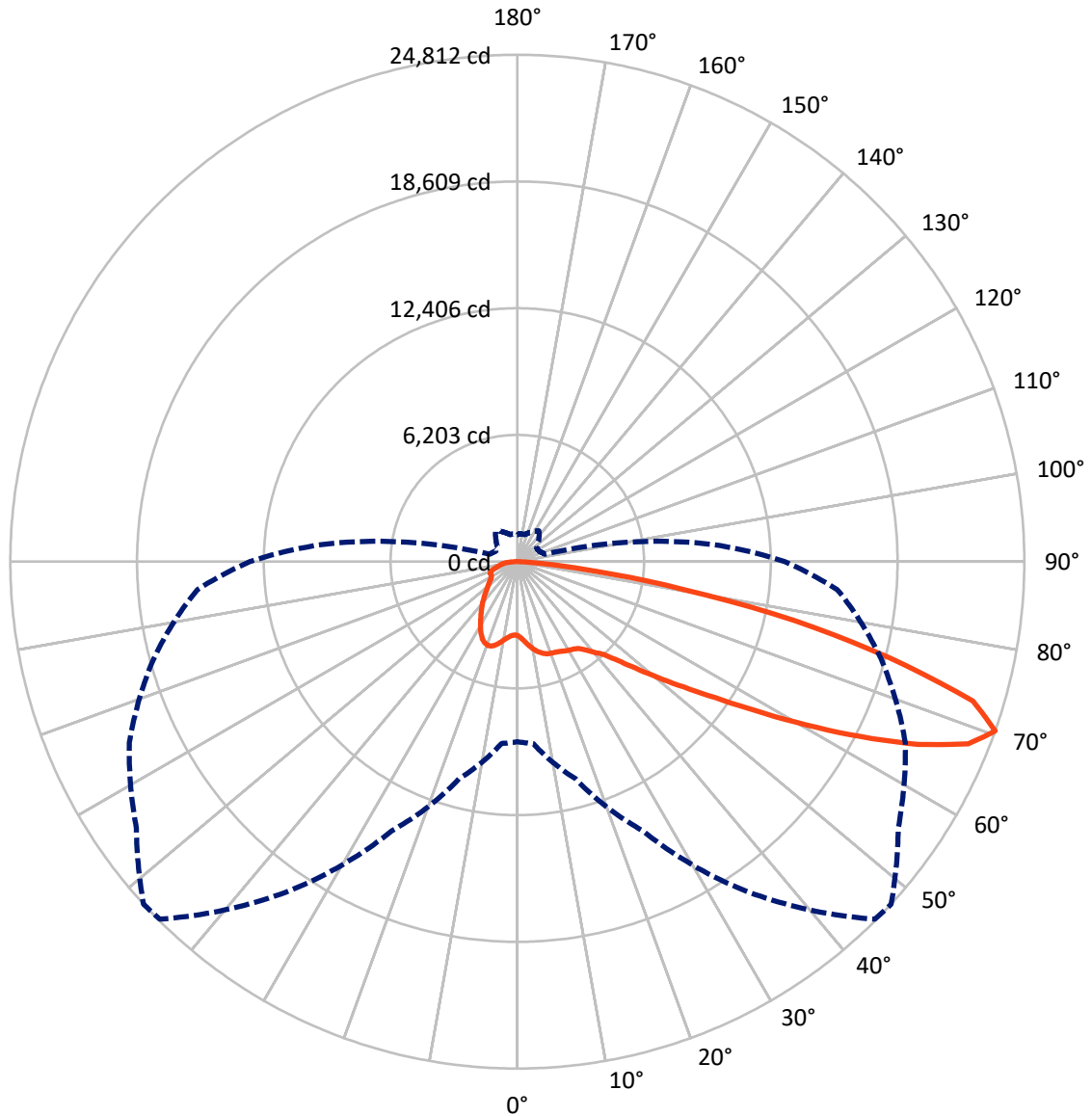
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	8156.5	0.0	8156.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27867.5	0.0	27867.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	36024.0	0.0	36024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.8	1.0
10°-20°	1246.2	3.5
20°-30°	2072.4	5.8
30°-40°	2937.4	8.2
40°-50°	4336.2	12.0
50°-60°	7510.4	20.8
60°-70°	10608.7	29.4
70°-80°	6098.5	16.9
80°-90°	841.4	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°	36024.0	100.0
0°-180°	36024.0	100.0

Coefficient of Utilization



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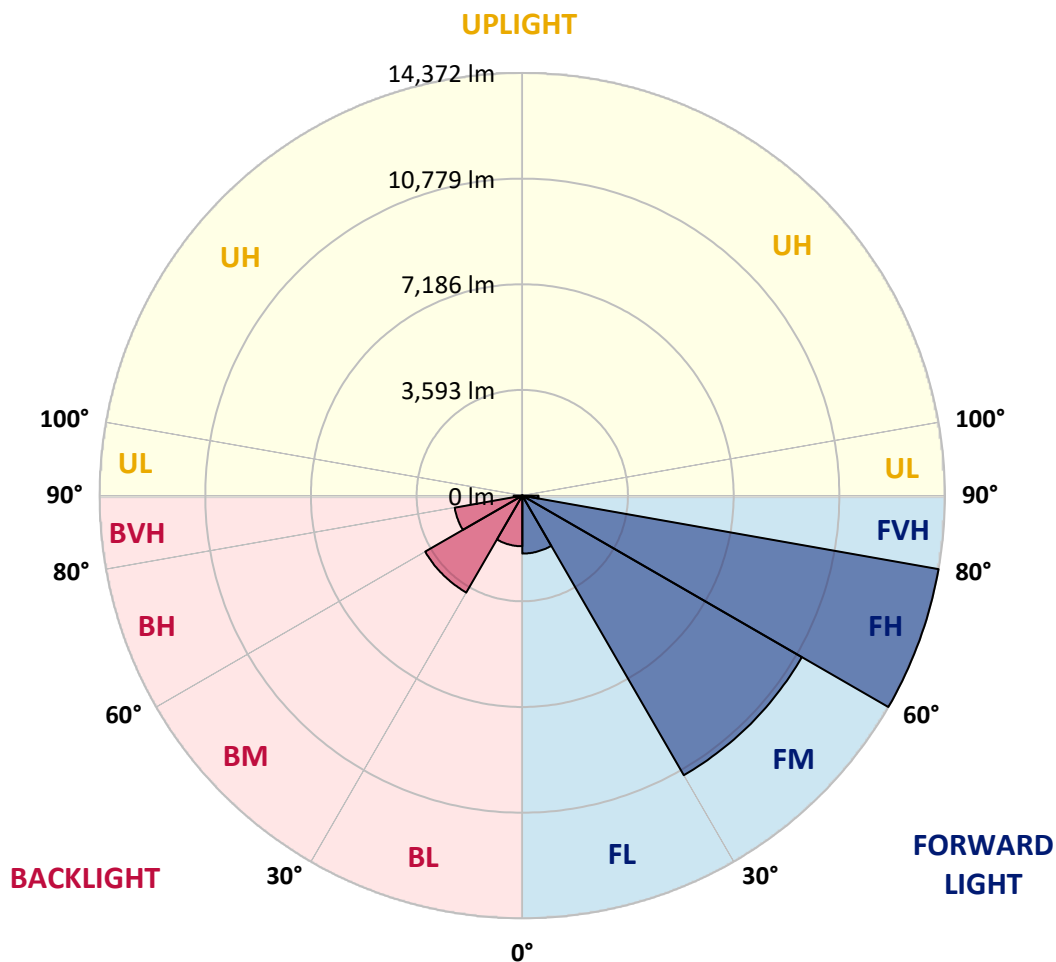
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1969.9	5.5			
FM	(30°-60°)	10975.8	30.5			
FH	(60°-80°)	14372.1	39.9			G5
FVH	(80°-90°)	549.7	1.5			G4/750
BL	(0°-30°)	1721.5	4.8	B3/2500		
BM	(30°-60°)	3808.1	10.6	B3/5000		
BH	(60°-80°)	2335.1	6.5	B3/2500		G3/2500
BVH	(80°-90°)	291.8	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°	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4
2.5°	3849.6	3836.1	3834.2	3805.3	3789.9	3761.0	3749.4	3722.4	3689.6	3656.9	3626.0
5°	4152.3	4152.3	4138.8	4098.3	4034.7	3969.1	3940.2	3888.2	3795.7	3720.5	3656.9
7.5°	4462.6	4466.5	4439.5	4379.7	4289.1	4183.1	4156.1	4079.0	3947.9	3838.1	3743.6
10°	4730.6	4730.6	4694.0	4613.0	4499.3	4383.6	4356.6	4269.9	4123.4	3986.5	3863.1
12.5°	4934.9	4934.9	4886.7	4780.7	4657.3	4553.2	4522.4	4439.5	4302.6	4150.4	3994.2
15°	5067.9	5058.3	5004.3	4884.8	4765.3	4674.7	4653.5	4584.1	4458.8	4304.6	4129.1
17.5°	5073.7	5069.9	5017.8	4917.6	4813.5	4751.8	4738.3	4692.0	4593.7	4447.2	4262.2
20°	4961.9	4969.6	4934.9	4863.6	4813.5	4786.5	4780.7	4765.3	4695.9	4559.0	4374.0
22.5°	4842.4	4855.9	4823.1	4784.6	4780.7	4807.7	4811.6	4815.4	4771.1	4638.1	4468.4
25°	4813.5	4823.1	4790.3	4755.7	4776.9	4848.2	4863.6	4879.0	4844.3	4732.5	4580.2
27.5°	4960.0	4952.3	4888.7	4813.5	4827.0	4923.4	4944.6	4961.9	4944.6	4848.2	4719.0
30°	5374.4	5349.4	5222.2	5002.4	4933.0	5000.5	5021.7	5069.9	5069.9	4998.5	4869.4
32.5°	6068.4	6020.2	5787.0	5355.2	5114.2	5073.7	5094.9	5174.0	5214.4	5158.5	5017.8
35°	6910.8	6860.7	6527.2	5947.0	5445.8	5220.2	5214.4	5303.1	5411.1	5285.8	5102.6
37.5°	7757.1	7705.0	7304.1	6652.5	5929.6	5528.7	5494.0	5524.8	5571.1	5341.7	5220.2
40°	8603.4	8541.7	8190.8	7440.9	6521.4	5937.3	5846.7	5707.9	5688.7	5524.8	5447.7
42.5°	9441.9	9386.0	9208.7	8325.8	7230.8	6336.4	6197.6	5958.5	6031.8	5933.5	5866.0
45°	10288.2	10292.0	10103.1	9318.5	8086.7	7072.8	6885.8	6511.8	6685.3	6648.7	6687.2
47.5°	11038.0	11028.4	10960.9	10282.4	9148.9	8021.2	7780.2	7346.5	7643.4	7778.3	8073.2
50°	11764.8	11759.0	11762.9	11375.4	10382.6	9148.9	8882.9	8427.9	9096.8	9565.3	10093.5
52.5°	12805.7	12838.5	12605.3	12503.1	11882.4	10480.9	10187.9	9717.6	10814.4	11552.7	12584.1
55°	13850.6	13823.6	13640.4	13746.5	13451.5	12057.8	11751.3	11377.3	12726.7	13534.4	15084.3
57.5°	14465.5	14475.1	14662.1	15180.7	15388.9	14024.1	13746.5	13457.3	14876.1	15448.6	17308.9
60°	15018.8	15063.1	15600.9	16580.2	17145.0	16439.5	16192.7	15911.3	16848.1	17075.6	19240.4
62.5°	15192.2	15329.1	16267.9	17733.0	18856.8	19165.3	18858.7	18238.0	18725.7	18637.1	20549.3
65°	14326.7	14513.7	16196.6	18164.8	20385.5	21752.2	21557.5	20404.8	20325.7	19791.8	20763.3
67.5°	12048.2	12235.1	14396.1	17258.8	21017.8	23992.2	23797.5	21985.5	21297.3	19899.7	19144.0
70°	8815.4	8933.0	10999.5	14531.0	19747.4	24744.0	24811.5	22756.6	20950.3	18432.7	15718.5
72.5°	5079.5	5339.7	6787.5	10222.6	16133.0	22843.3	23311.7	21152.7	18756.6	15377.3	10989.9
75°	2184.1	2189.9	3138.3	5638.5	10926.2	18361.4	18814.4	17534.4	14729.6	10633.2	5867.9
77.5°	1039.0	1058.3	1380.2	2517.6	6014.4	12686.2	13908.4	12387.4	9420.7	5108.4	2216.9
80°	674.7	688.2	844.3	1249.2	2949.4	7356.1	8208.2	7146.0	4156.1	1825.5	956.1
82.5°	408.7	412.5	564.8	763.4	1623.1	3331.1	3926.7	3101.7	1773.5	1093.0	562.9
85°	248.7	250.6	343.1	472.3	985.1	1150.8	1181.7	1172.0	1041.0	715.2	300.7
87.5°	119.5	123.4	177.3	223.6	387.5	356.6	337.3	391.3	491.6	385.5	129.2
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°	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4	3616.4
2.5°	3612.5	3606.7	3593.2	3587.5	3583.6	3585.5	3583.6	3583.6	3585.5	3585.5	3585.5
5°	3629.9	3620.2	3599.0	3599.0	3610.6	3637.6	3662.6	3681.9	3703.1	3701.2	3701.2
7.5°	3705.1	3687.7	3662.6	3670.4	3699.3	3741.7	3786.0	3828.4	3870.8	3874.7	3872.8
10°	3814.9	3797.6	3770.6	3780.2	3826.5	3890.1	3946.0	4007.7	4054.0	4067.5	4063.6
12.5°	3940.2	3905.5	3882.4	3909.4	3982.6	4067.5	4121.4	4167.7	4200.5	4219.7	4212.0
15°	4067.5	4034.7	4007.7	4063.6	4152.3	4231.3	4258.3	4266.0	4271.8	4291.1	4287.2
17.5°	4190.8	4146.5	4136.9	4210.1	4294.9	4329.6	4314.2	4281.4	4256.4	4271.8	4269.9
20°	4300.7	4266.0	4262.2	4335.4	4368.2	4335.4	4269.9	4212.0	4167.7	4171.6	4169.6
22.5°	4404.8	4377.8	4381.7	4412.5	4360.5	4248.7	4140.7	4061.7	4013.5	4023.1	4028.9
25°	4520.5	4493.5	4503.1	4453.0	4281.4	4086.7	3930.6	3863.1	3843.8	3863.1	3876.6
27.5°	4670.8	4653.5	4647.7	4454.9	4140.7	3847.7	3670.4	3645.3	3662.6	3705.1	3726.3
30°	4832.8	4832.8	4801.9	4422.2	3947.9	3560.5	3406.3	3410.1	3469.9	3529.6	3550.8
32.5°	4988.9	5021.7	4925.3	4333.5	3699.3	3281.0	3163.4	3167.2	3219.3	3292.5	3311.8
35°	5118.1	5212.5	5031.3	4171.6	3406.3	3045.8	2957.1	2905.1	2907.0	2962.9	2978.3
37.5°	5295.4	5470.8	5093.0	3930.6	3094.0	2845.3	2745.1	2654.5	2594.7	2571.6	2571.6
40°	5603.8	5862.2	5108.4	3574.0	2799.0	2654.5	2511.8	2403.8	2288.2	2184.1	2164.8
42.5°	6126.2	6452.0	5077.6	3163.4	2533.0	2444.3	2305.5	2172.5	2012.5	1866.0	1854.5
45°	7051.5	7219.3	4994.7	2737.3	2295.9	2241.9	2107.0	1962.4	1792.8	1661.7	1652.0
47.5°	8534.0	8296.8	4884.8	2359.5	2080.0	2064.6	1960.5	1792.8	1623.1	1532.5	1522.9
50°	10698.8	9993.2	4869.4	2085.8	1906.5	1914.2	1829.4	1675.2	1526.7	1451.6	1440.0
52.5°	13305.0	12042.4	4971.6	1893.0	1754.2	1783.1	1740.7	1598.1	1467.0	1403.4	1391.8
55°	15834.2	13885.3	5033.2	1742.6	1611.6	1665.5	1671.3	1551.8	1432.3	1368.7	1361.0
57.5°	17887.2	15273.2	4759.5	1605.8	1488.2	1571.1	1613.5	1524.8	1414.9	1366.7	1359.0
60°	19315.6	15928.6	3980.7	1484.3	1397.6	1495.9	1592.3	1526.7	1457.3	1463.1	1467.0
62.5°	19770.6	15637.5	2986.0	1393.7	1335.9	1470.8	1627.0	1605.8	1534.5	1578.8	1586.5
65°	19016.8	14434.7	2164.8	1322.4	1281.9	1488.2	1731.1	1663.6	1507.5	1540.2	1540.2
67.5°	16493.5	12435.6	1684.8	1256.9	1220.2	1521.0	1835.2	1657.8	1443.9	1482.4	1447.7
70°	13083.3	9619.3	1403.4	1183.6	1154.7	1472.8	1844.8	1598.1	1368.7	1376.4	1310.8
72.5°	8682.4	6324.8	1206.7	1114.2	1054.5	1324.3	1765.8	1521.0	1295.4	1251.1	1185.5
75°	4254.4	3153.7	1052.5	1027.5	923.4	1152.8	1657.8	1447.7	1216.4	1147.0	1110.4
77.5°	1648.2	1341.7	898.3	917.6	803.9	1015.9	1515.2	1343.6	1112.3	1017.8	988.9
80°	800.0	761.4	736.4	765.3	661.2	865.5	1384.1	1253.0	1015.9	911.8	869.4
82.5°	497.3	470.4	564.8	595.7	508.9	790.4	1312.8	1175.9	894.5	755.7	721.0
85°	252.5	269.9	377.8	406.7	364.3	628.4	1081.4	882.9	645.8	535.9	539.8
87.5°	96.4	129.2	198.6	214.0	194.7	331.6	595.7	514.7	414.5	281.4	260.2
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)