

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: P457785

Luminaire Tested: **GALN-SA9A-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-827-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30409 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

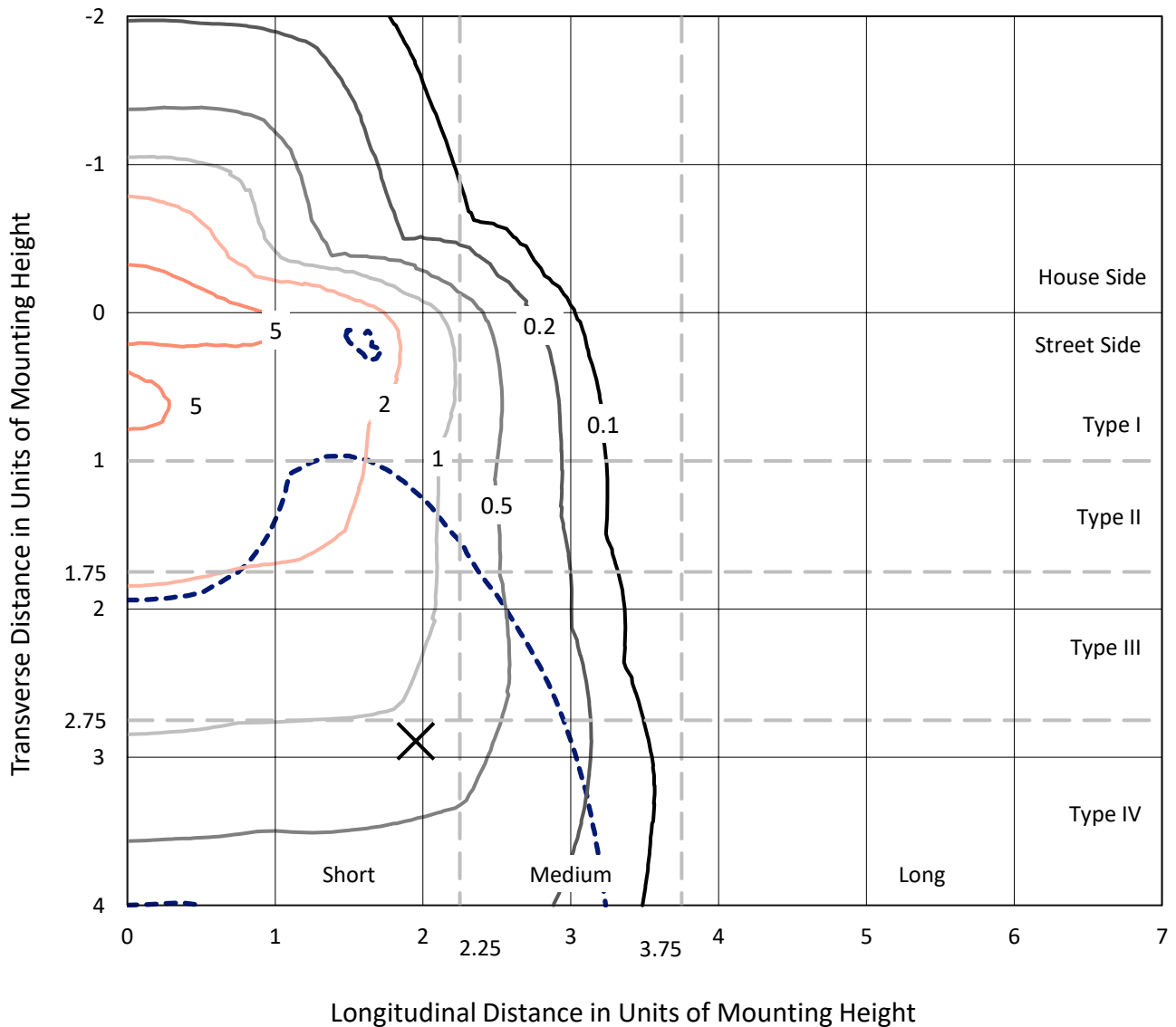
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

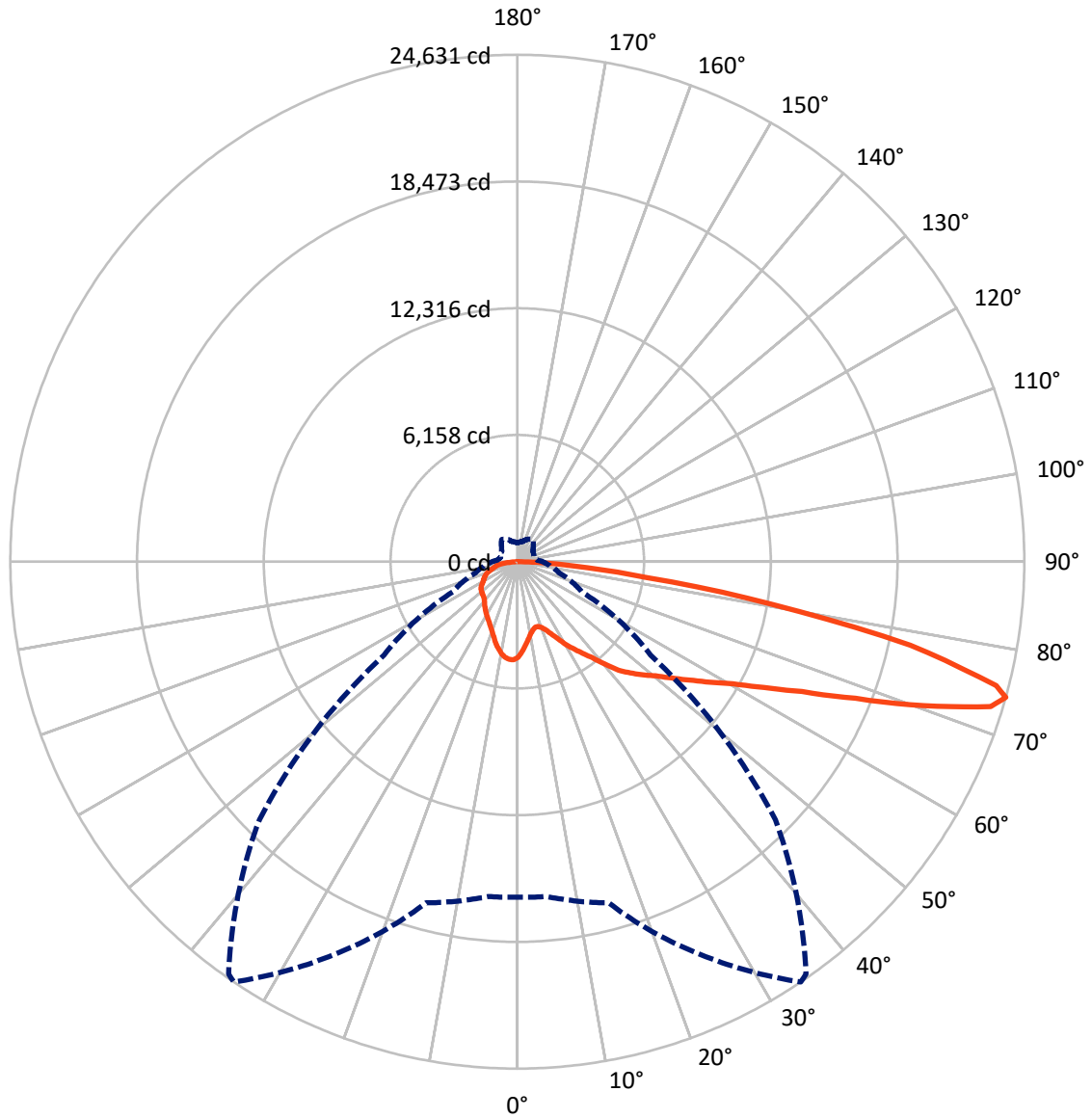
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6471.2	0.0	6471.2
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	23937.7	0.0	23937.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	30409.0	0.0	30409.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.3	1.4
10°-20°	1155.9	3.8
20°-30°	1905.8	6.3
30°-40°	2854.6	9.4
40°-50°	4149.8	13.6
50°-60°	5796.3	19.1
60°-70°	7256.7	23.9
70°-80°	6000.7	19.7
80°-90°	867.1	2.9
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°	30409.0	100.0
0°-180°	30409.0	100.0

Coefficient of Utilization



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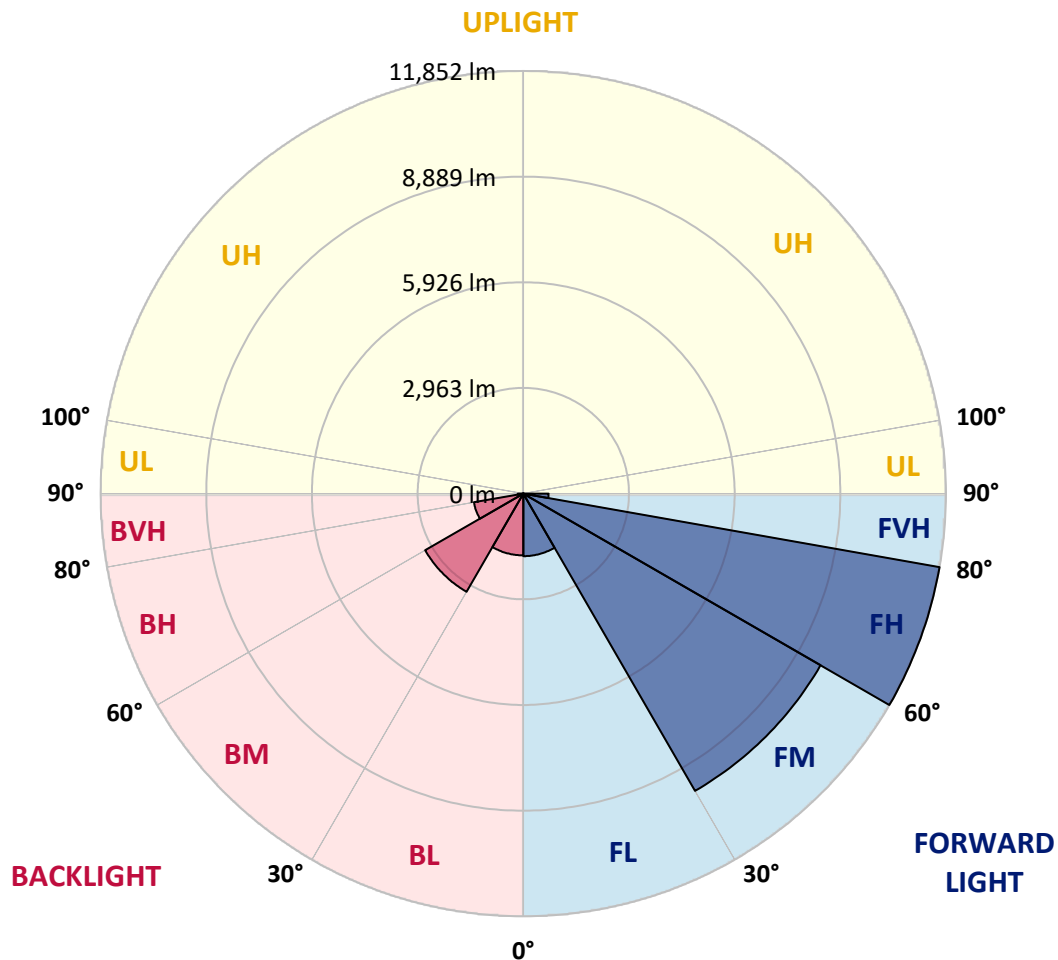
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1752.9	5.8			
FM	(30°-60°)	9622.7	31.6			
FH	(60°-80°)	11851.8	39.0			G4/12000
FVH	(80°-90°)	710.3	2.3			G4/750
BL	(0°-30°)	1731.0	5.7	B3/2500		
BM	(30°-60°)	3178.0	10.5	B3/5000		
BH	(60°-80°)	1405.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	156.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9
2.5°	4290.8	4312.7	4324.5	4366.6	4376.7	4390.2	4425.5	4472.7	4533.4	4587.3	4634.4
5°	3933.6	3967.3	3987.5	4024.6	4097.0	4103.8	4198.1	4305.9	4428.9	4543.5	4637.8
7.5°	3595.0	3632.1	3648.9	3716.3	3812.3	3827.5	3965.6	4135.8	4341.3	4514.8	4659.7
10°	3340.6	3359.2	3396.2	3446.8	3561.3	3571.4	3751.7	3979.1	4245.3	4501.3	4696.8
12.5°	3202.5	3212.6	3221.0	3274.9	3387.8	3403.0	3591.6	3849.4	4169.5	4511.5	4757.4
15°	3222.7	3226.1	3189.0	3199.1	3290.1	3312.0	3499.0	3763.5	4122.3	4536.7	4848.4
17.5°	3392.9	3381.1	3290.1	3242.9	3306.9	3317.0	3480.5	3729.8	4100.4	4583.9	4942.7
20°	3660.7	3643.9	3487.2	3382.7	3419.8	3428.2	3541.1	3755.1	4122.3	4661.4	5089.3
22.5°	3994.3	3987.5	3750.0	3623.6	3622.0	3622.0	3680.9	3846.0	4188.0	4767.5	5242.6
25°	4460.9	4425.5	4115.6	3952.2	3906.7	3903.3	3896.6	3996.0	4272.2	4880.4	5424.5
27.5°	4939.3	4878.7	4602.4	4351.4	4253.7	4241.9	4198.1	4208.2	4380.0	5008.4	5631.7
30°	5368.9	5330.2	5070.8	4792.8	4676.5	4649.6	4528.3	4472.7	4560.3	5239.2	5961.9
32.5°	5697.4	5673.8	5471.7	5219.0	5047.2	5042.1	4865.2	4819.7	4841.6	5518.9	6339.3
35°	5963.6	5972.0	5869.3	5650.3	5453.2	5424.5	5306.6	5249.3	5185.3	5923.2	6814.3
37.5°	6327.5	6346.0	6339.3	6150.6	5909.7	5916.4	5889.5	5795.1	5625.0	6374.7	7341.6
40°	6728.4	6741.9	6740.2	6667.8	6541.4	6548.2	6538.1	6430.3	6175.9	6949.1	7927.9
42.5°	7282.7	7218.7	7051.9	7124.3	7198.4	7230.5	7299.5	7196.8	6848.0	7562.3	8478.8
45°	7902.6	7781.3	7404.0	7437.7	7712.3	7772.9	8153.6	8012.1	7577.5	8266.5	9127.4
47.5°	8293.5	8173.8	7855.5	7848.7	8212.6	8271.6	8945.4	8893.2	8241.2	9026.3	9919.1
50°	8642.2	8625.3	8266.5	8352.4	8707.9	8795.5	9807.9	9759.1	8903.3	9922.5	10781.7
52.5°	9159.4	9022.9	8736.5	8913.4	9383.4	9498.0	10663.7	10520.5	9511.4	10714.3	11618.9
55°	9391.8	9359.8	9343.0	9496.3	10141.5	10224.0	11495.9	11167.4	10030.3	11384.8	12255.7
57.5°	10013.5	9954.5	10121.3	10225.7	11034.4	11160.7	12365.2	11843.0	10485.2	11917.1	12565.7
60°	10818.7	10786.7	10940.0	11128.7	12031.7	12223.7	13355.8	12419.1	10850.7	12185.0	12395.5
62.5°	12021.6	12018.2	11989.5	12393.9	13445.1	13622.0	14492.9	12980.1	10908.0	11984.5	11516.2
65°	13746.6	13686.0	13436.6	13878.0	15203.8	15411.0	15677.2	13293.5	10562.7	10955.2	9696.8
67.5°	15550.9	15547.5	15345.3	15918.1	17729.1	17943.0	17158.0	13224.4	9604.1	8874.7	6886.8
70°	17046.8	16974.4	17232.1	18758.4	20955.2	21202.8	18453.5	12410.7	7649.9	5860.8	4092.0
72.5°	17405.6	17409.0	17944.7	20948.4	24053.2	24092.0	18920.1	10059.0	5119.6	3232.8	2046.8
74°	16300.5	16329.2	17159.7	21057.9	24631.0	24455.8	17727.4	7906.0	3461.9	2110.8	1475.7
75°	14878.7	14698.4	15899.6	20328.5	24031.3	23842.6	16330.8	6344.3	2641.5	1686.3	1292.1
77.5°	7954.8	8138.5	9991.6	15170.1	19523.2	19305.9	11073.1	3042.5	1426.9	1174.2	929.9
80°	2831.9	3123.3	4390.2	7938.0	12516.8	12584.2	5284.7	1394.9	1004.0	865.9	657.0
82.5°	1155.7	1187.7	1885.1	3522.6	6356.1	6416.8	2158.0	828.8	717.7	596.4	392.5
85°	451.5	465.0	833.9	1583.6	2712.3	2889.1	746.3	438.0	441.4	342.0	200.5
87.5°	151.6	171.8	342.0	527.3	921.5	903.0	217.3	129.7	158.4	148.2	62.3
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°	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9	4642.9
2.5°	4658.0	4690.0	4711.9	4735.5	4757.4	4764.1	4759.1	4774.3	4775.9	4777.6	4779.3
5°	4685.0	4728.8	4770.9	4794.5	4804.6	4796.2	4767.5	4752.4	4738.9	4728.8	4732.1
7.5°	4722.0	4784.4	4823.1	4833.2	4806.3	4767.5	4696.8	4641.2	4605.8	4582.2	4580.5
10°	4779.3	4840.0	4872.0	4843.3	4769.2	4674.9	4563.7	4459.2	4380.0	4356.5	4354.8
12.5°	4851.7	4920.8	4919.1	4834.9	4705.2	4536.7	4356.5	4235.2	4127.4	4073.4	4095.3
15°	4946.1	4998.3	4949.5	4797.8	4592.3	4361.5	4139.1	3974.1	3852.8	3795.5	3798.9
17.5°	5055.6	5101.1	4971.4	4732.1	4434.0	4137.5	3879.7	3723.0	3627.0	3584.9	3581.5
20°	5192.0	5205.5	4971.4	4617.6	4230.1	3876.3	3630.4	3520.9	3467.0	3445.1	3451.8
22.5°	5338.6	5311.7	4944.4	4455.9	3962.3	3603.4	3438.3	3389.5	3362.5	3359.2	3362.5
25°	5503.7	5427.9	4888.8	4236.9	3682.6	3367.6	3271.6	3280.0	3285.0	3285.0	3296.8
27.5°	5705.9	5554.2	4796.2	3960.6	3355.8	3148.6	3121.6	3180.6	3207.5	3212.6	3221.0
30°	5972.0	5692.4	4642.9	3615.2	3077.8	2951.5	2998.6	3077.8	3108.2	3126.7	3123.3
32.5°	6288.7	5844.0	4435.6	3269.9	2853.8	2813.3	2870.6	2951.5	2985.2	2995.3	2981.8
35°	6661.0	6015.8	4162.7	2946.4	2658.4	2681.9	2749.3	2774.6	2804.9	2804.9	2811.7
37.5°	7062.0	6154.0	3829.2	2649.9	2506.7	2592.7	2641.5	2617.9	2604.4	2587.6	2596.0
40°	7469.7	6256.7	3396.2	2356.8	2355.1	2500.0	2513.5	2446.1	2392.2	2375.3	2366.9
42.5°	7825.1	6320.7	3005.4	2129.4	2211.9	2409.0	2419.1	2311.3	2225.4	2174.9	2158.0
45°	8244.6	6394.9	2623.0	1940.7	2078.8	2336.6	2361.9	2217.0	2090.6	1984.5	1957.5
47.5°	8819.1	6563.3	2321.4	1794.1	1982.8	2291.1	2326.5	2139.5	1972.7	1834.6	1812.7
50°	9467.6	6794.1	2087.3	1694.7	1908.7	2250.7	2294.5	2060.3	1863.2	1709.9	1693.1
52.5°	10062.3	6918.8	1885.1	1605.5	1836.3	2176.5	2252.4	2003.0	1755.4	1585.2	1570.1
55°	10387.5	6716.6	1686.3	1517.9	1736.9	2080.5	2193.4	1923.9	1650.9	1519.5	1497.6
57.5°	10431.3	6298.8	1506.1	1423.5	1632.4	1962.6	2083.9	1827.8	1583.6	1474.1	1455.5
60°	10092.6	5675.5	1366.2	1346.0	1526.3	1829.5	1960.9	1743.6	1514.5	1423.5	1405.0
62.5°	9250.3	4998.3	1268.5	1275.3	1418.5	1689.7	1869.9	1662.7	1448.8	1367.9	1351.1
65°	7801.5	4125.7	1174.2	1202.8	1322.4	1580.2	1787.4	1595.3	1383.1	1325.8	1310.6
67.5°	5419.5	2978.4	1096.7	1127.0	1231.5	1469.0	1691.4	1522.9	1309.0	1278.6	1255.1
70°	3000.3	1832.9	1005.7	1041.1	1137.1	1344.3	1583.6	1413.4	1201.1	1187.7	1154.0
72.5°	1576.8	1167.5	903.0	941.7	1009.1	1184.3	1418.5	1293.8	1095.0	1037.7	993.9
74°	1231.5	956.9	833.9	874.3	919.8	1090.0	1320.8	1207.9	1019.2	951.8	918.1
75°	1073.1	852.4	774.9	827.2	867.6	1025.9	1244.9	1147.2	977.1	913.1	882.7
77.5°	758.1	638.5	633.4	695.8	717.7	899.6	1122.0	1044.5	871.0	803.6	774.9
80°	532.3	478.4	502.0	540.8	571.1	795.1	1041.1	903.0	714.3	635.1	625.0
82.5°	347.0	313.3	358.8	394.2	404.3	586.3	840.6	685.6	520.6	422.8	392.5
85°	160.0	156.7	205.5	200.5	198.8	286.4	498.7	400.9	299.9	224.1	210.6
87.5°	40.4	38.7	50.5	42.1	50.5	43.8	45.5	11.8	1.7	0.0	0.0
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)