

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: P454854

Luminaire Tested: **GALN-SA6A-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23208 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

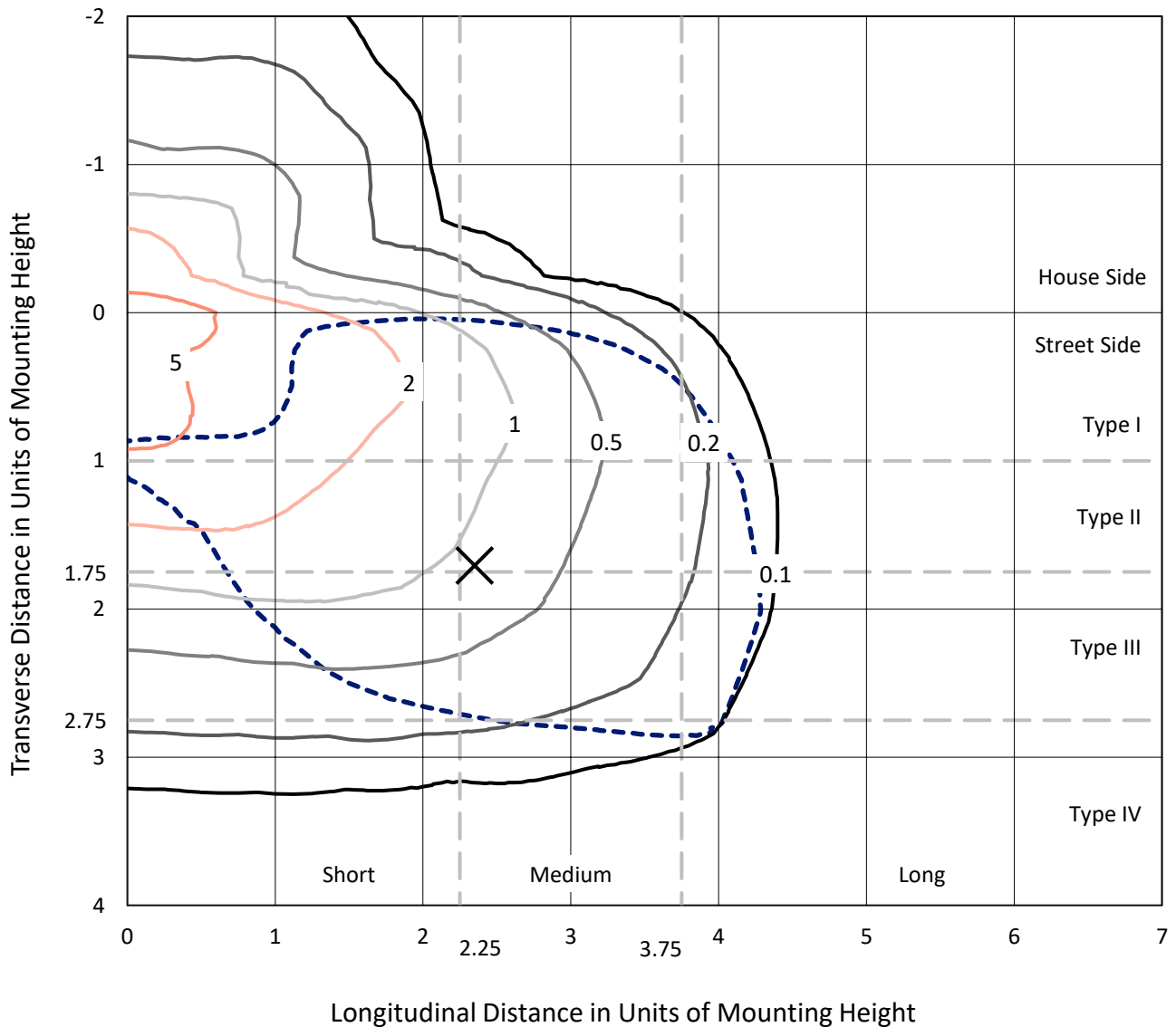
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

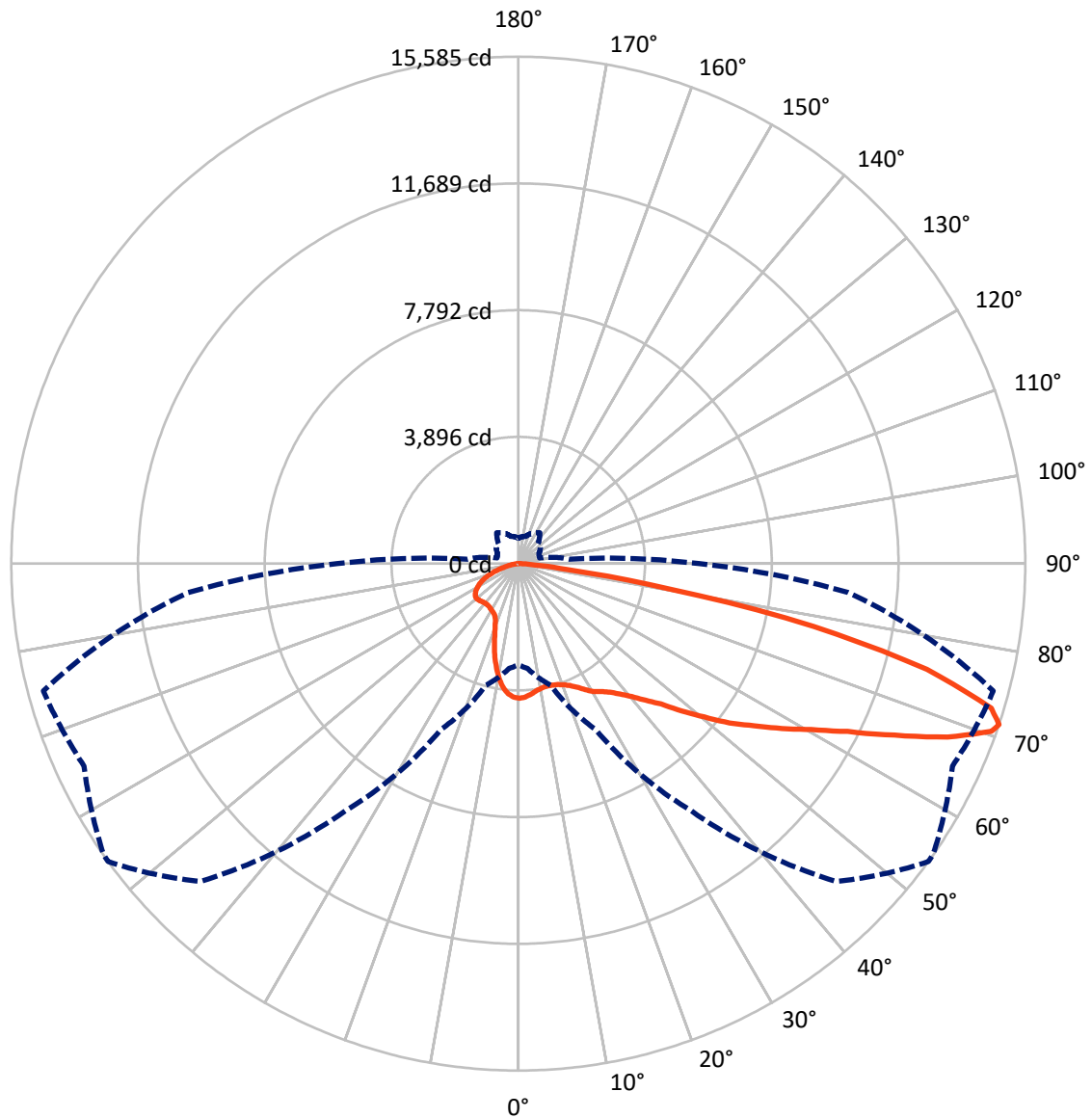
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4190.1	0.0	4190.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19017.9	0.0	19017.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	23208.0	0.0	23208.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.0	1.6
10°-20°	974.3	4.2
20°-30°	1622.3	7.0
30°-40°	2398.9	10.3
40°-50°	3378.9	14.6
50°-60°	4524.5	19.5
60°-70°	5702.7	24.6
70°-80°	3894.9	16.8
80°-90°	342.5	1.5
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°	23208.0	100.0
0°-180°	23208.0	100.0

Coefficient of Utilization



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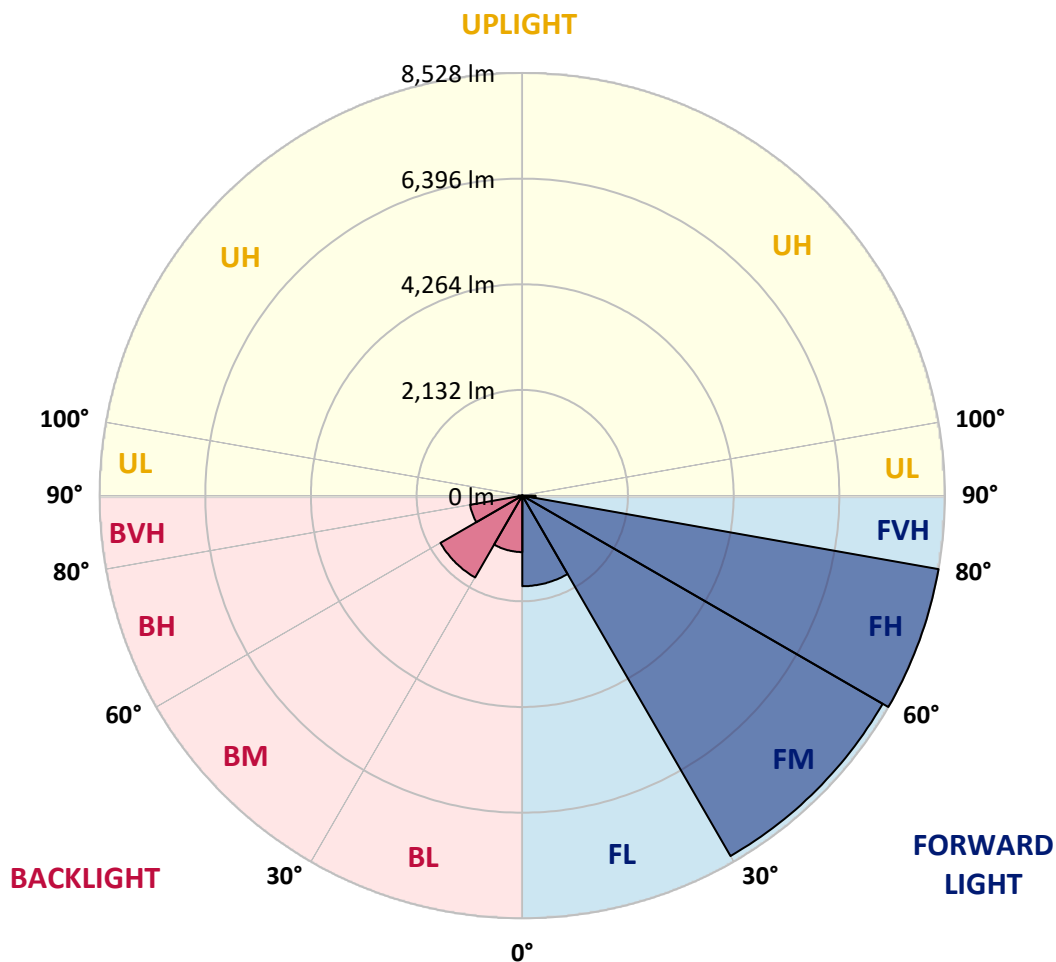
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1826.8	7.9			
FM	(30°-60°)	8395.8	36.2			
FH	(60°-80°)	8527.5	36.7			G4/12000
FVH	(80°-90°)	267.7	1.2			G3/500
BL	(0°-30°)	1138.8	4.9	B3/2500		
BM	(30°-60°)	1906.4	8.2	B2/2500		
BH	(60°-80°)	1070.1	4.6	B3/2500		G3/2500
BVH	(80°-90°)	74.8	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7
2.5°	4000.2	4019.1	4024.1	4036.6	4062.9	4084.2	4105.5	4103.0	4133.1	4145.7	4156.9
5°	3822.2	3827.3	3846.1	3871.1	3917.5	3976.4	4034.1	4035.3	4109.3	4168.2	4197.1
7.5°	3691.9	3708.2	3720.7	3747.0	3795.9	3859.8	3951.4	3958.9	4090.5	4207.1	4268.5
10°	3606.6	3625.4	3639.2	3671.8	3720.7	3792.1	3891.2	3905.0	4076.7	4268.5	4376.3
12.5°	3528.9	3547.7	3560.2	3602.9	3666.8	3754.5	3866.1	3882.4	4081.7	4340.0	4494.2
15°	3576.5	3591.6	3586.6	3599.1	3641.7	3742.0	3876.1	3892.4	4100.5	4408.9	4610.8
17.5°	3788.4	3800.9	3759.6	3711.9	3691.9	3765.8	3907.5	3925.0	4138.1	4480.4	4729.8
20°	4100.5	4134.4	4044.1	3937.6	3841.0	3851.1	3972.7	3991.5	4190.8	4551.8	4851.4
22.5°	4506.7	4531.8	4421.5	4246.0	4067.9	3976.4	4070.4	4081.7	4269.8	4644.6	4984.3
25°	4984.3	4999.4	4846.4	4620.8	4363.8	4190.8	4204.6	4224.6	4400.1	4749.9	5102.2
27.5°	5448.2	5495.8	5319.0	5043.2	4704.8	4416.4	4388.9	4401.4	4541.8	4808.8	5183.6
30°	5998.5	5994.7	5807.9	5488.3	5054.5	4662.1	4563.1	4560.6	4618.3	4837.7	5242.6
32.5°	6437.3	6488.6	6305.6	5957.1	5454.4	4916.6	4683.5	4678.4	4677.2	4887.8	5330.3
35°	6936.2	6943.7	6775.7	6424.7	5886.9	5236.3	4851.4	4826.4	4797.5	4995.6	5449.4
37.5°	7382.5	7417.6	7263.4	6869.7	6311.9	5568.5	5082.1	5065.8	4978.1	5182.4	5640.0
40°	7731.0	7757.3	7664.5	7289.7	6730.6	5927.0	5375.4	5345.4	5238.8	5488.3	5894.4
42.5°	7845.0	7899.0	7935.3	7751.0	7212.0	6352.0	5736.5	5698.9	5617.4	5952.1	6187.8
45°	7853.8	7939.1	8130.9	8139.6	7695.9	6861.0	6157.7	6131.4	6125.1	6546.3	6600.2
47.5°	7787.4	7873.9	8196.1	8370.3	8127.1	7374.9	6765.7	6724.3	6728.1	7280.9	7062.8
50°	7626.9	7729.7	8120.8	8518.2	8464.3	7909.0	7407.5	7393.8	7471.5	8119.6	7542.9
52.5°	7324.8	7448.9	8043.1	8611.0	8715.0	8369.1	8137.1	8098.3	8295.1	9029.7	8068.2
55°	6488.6	6675.4	7758.5	8662.4	8953.2	8809.1	8794.0	8864.2	9125.0	10022.6	8646.1
57.5°	6052.4	6192.8	7140.5	8671.2	9254.1	9320.5	9561.2	9578.8	10035.1	11076.8	9299.2
60°	5814.2	5938.3	6802.1	8613.5	9674.1	9953.6	10346.0	10408.7	10923.9	12218.9	9976.2
62.5°	5606.1	5712.7	6599.0	8414.2	10147.9	10892.6	11362.7	11392.7	11933.0	13480.0	10644.3
65°	5116.0	5237.6	6190.3	8214.9	10556.6	12065.9	12711.5	12676.4	13007.4	14568.1	11063.0
67.5°	4455.3	4609.5	5426.8	7526.6	10758.4	13348.4	14230.9	14187.0	14067.9	15281.4	11183.4
70°	3611.6	3694.4	4450.3	6337.0	9952.4	14021.5	15430.6	15384.2	14724.8	15375.4	10614.3
71°	3107.7	3236.8	3874.9	5628.7	9281.7	13816.0	15584.8	15572.3	14726.1	15115.9	10185.5
72.5°	2425.7	2504.7	3068.8	4361.3	7888.9	12647.6	15203.7	15251.3	14406.4	14395.1	9301.7
75°	1534.4	1569.5	1925.5	2567.4	4328.7	8957.0	12978.6	13107.7	12791.8	11782.6	6917.4
77.5°	891.3	936.4	1153.3	1513.1	1870.4	4861.5	9286.7	9427.1	8888.0	6487.4	2831.9
80°	519.0	569.1	759.7	878.8	858.7	1803.9	4728.6	4968.0	3848.6	1638.5	794.8
82.5°	288.3	322.2	534.0	535.3	457.6	589.2	1488.0	1557.0	1098.2	660.6	324.7
85°	209.4	236.9	344.7	312.1	219.4	253.2	517.7	542.8	443.8	278.3	105.3
87.5°	74.0	105.3	189.3	150.4	60.2	52.7	149.2	121.6	112.8	77.7	23.8
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°	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7	4140.7
2.5°	4163.2	4165.7	4153.2	4130.6	4108.1	4079.2	4046.6	4021.6	4010.3	4009.0	4007.8
5°	4208.3	4214.6	4167.0	4096.8	4019.1	3923.8	3842.3	3749.5	3725.7	3688.1	3699.4
7.5°	4281.1	4277.3	4183.3	4034.1	3852.3	3650.5	3480.0	3381.0	3278.2	3249.3	3250.6
10°	4385.1	4361.3	4183.3	3906.2	3602.9	3303.2	3065.1	2914.6	2833.1	2765.4	2740.4
12.5°	4495.4	4435.2	4143.2	3727.0	3281.9	2914.6	2658.9	2455.8	2403.2	2348.0	2349.3
15°	4600.7	4500.4	4064.2	3475.0	2935.9	2499.7	2251.5	2129.9	2113.6	2119.8	2118.6
17.5°	4696.0	4546.8	3943.8	3194.2	2532.3	2143.7	2012.0	2020.8	2064.7	2096.0	2099.8
20°	4792.5	4574.4	3764.6	2818.1	2151.2	1928.0	1933.1	2002.0	2068.4	2111.1	2117.3
22.5°	4884.0	4586.9	3554.0	2454.6	1875.4	1836.5	1910.5	1984.5	2049.6	2091.0	2097.3
25°	4944.2	4558.1	3255.6	2074.7	1740.0	1803.9	1881.7	1944.3	1999.5	2042.1	2052.1
27.5°	4960.5	4465.3	2885.8	1767.6	1677.3	1772.6	1844.1	1890.4	1933.1	1973.2	1980.7
30°	4951.7	4328.7	2479.6	1587.1	1641.0	1736.2	1791.4	1825.2	1876.6	1908.0	1914.3
32.5°	4937.9	4169.5	2055.9	1490.5	1610.9	1702.4	1735.0	1765.1	1763.8	1751.3	1760.1
35°	4943.0	3978.9	1712.4	1432.9	1584.6	1677.3	1704.9	1667.3	1559.5	1554.5	1549.5
37.5°	4969.3	3790.9	1463.0	1392.8	1570.8	1673.6	1688.6	1515.6	1420.3	1376.5	1365.2
40°	5037.0	3571.5	1298.7	1362.7	1569.5	1702.4	1614.6	1439.1	1256.1	1170.9	1164.6
42.5°	5127.2	3355.9	1198.4	1343.9	1584.6	1746.3	1584.6	1331.3	1132.0	1081.9	1074.3
45°	5261.4	3108.9	1143.3	1335.1	1607.1	1762.6	1574.5	1252.3	1081.9	1041.7	1041.7
47.5°	5413.1	2873.3	1113.2	1328.8	1636.0	1751.3	1485.5	1227.3	1058.0	1063.1	1086.9
50°	5563.5	2668.9	1090.6	1315.0	1661.0	1745.0	1449.2	1226.0	1064.3	1128.2	1170.9
52.5°	5737.7	2524.8	1063.1	1292.5	1661.0	1704.9	1437.9	1251.1	1081.9	1100.7	1119.5
55°	5948.3	2479.6	1028.0	1243.6	1630.9	1604.6	1431.6	1287.5	1094.4	1050.5	1058.0
57.5°	6226.6	2552.3	994.1	1182.1	1562.0	1500.6	1429.1	1297.5	1065.6	1029.2	1021.7
60°	6550.1	2696.5	984.1	1119.5	1468.0	1411.6	1414.1	1268.6	1025.4	987.8	994.1
62.5°	6777.0	2783.0	977.8	1071.8	1365.2	1313.8	1377.7	1233.5	1007.9	975.3	981.6
65°	6777.0	2677.7	920.1	999.1	1232.3	1195.9	1333.8	1189.7	985.3	947.7	941.5
67.5°	6520.0	2370.6	832.4	890.1	1085.6	1061.8	1272.4	1137.0	951.5	922.7	907.6
70°	5850.6	1797.7	722.1	762.2	900.1	921.4	1193.4	1065.6	895.1	860.0	837.4
71°	5556.0	1565.8	675.7	697.0	828.6	860.0	1155.8	1035.5	870.0	819.9	779.7
72.5°	4988.1	1318.8	605.5	614.3	708.3	764.7	1076.8	977.8	822.4	750.9	705.8
75°	3789.6	962.8	487.7	482.6	524.0	606.7	911.4	871.3	720.8	624.3	598.0
77.5°	1637.2	524.0	364.8	368.6	356.0	460.1	717.1	748.4	618.0	507.7	483.9
80°	496.4	302.1	249.5	254.5	238.2	308.4	505.2	586.7	496.4	394.9	362.3
82.5°	254.5	180.5	170.5	168.0	151.7	174.3	305.9	401.2	354.8	247.0	218.1
85°	110.3	96.5	84.0	81.5	71.5	62.7	109.1	200.6	188.0	137.9	131.6
87.5°	27.6	25.1	16.3	15.0	8.8	1.3	0.0	0.0	0.0	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)