

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: P457640

Luminaire Tested: **GALN-SA9A-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457640
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-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 34595 lumens
Efficiency: N/A
Efficacy: 126.3 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

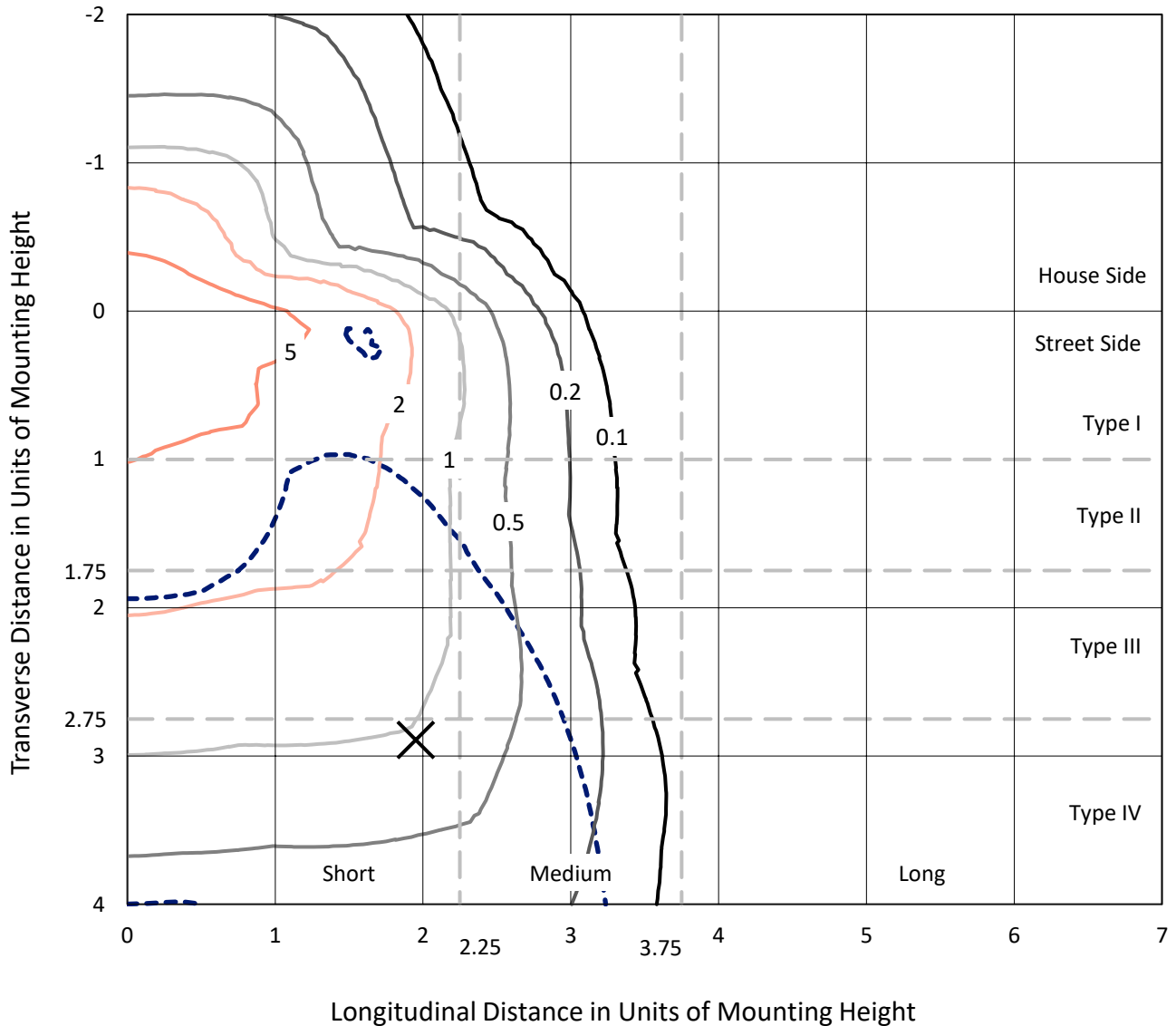
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

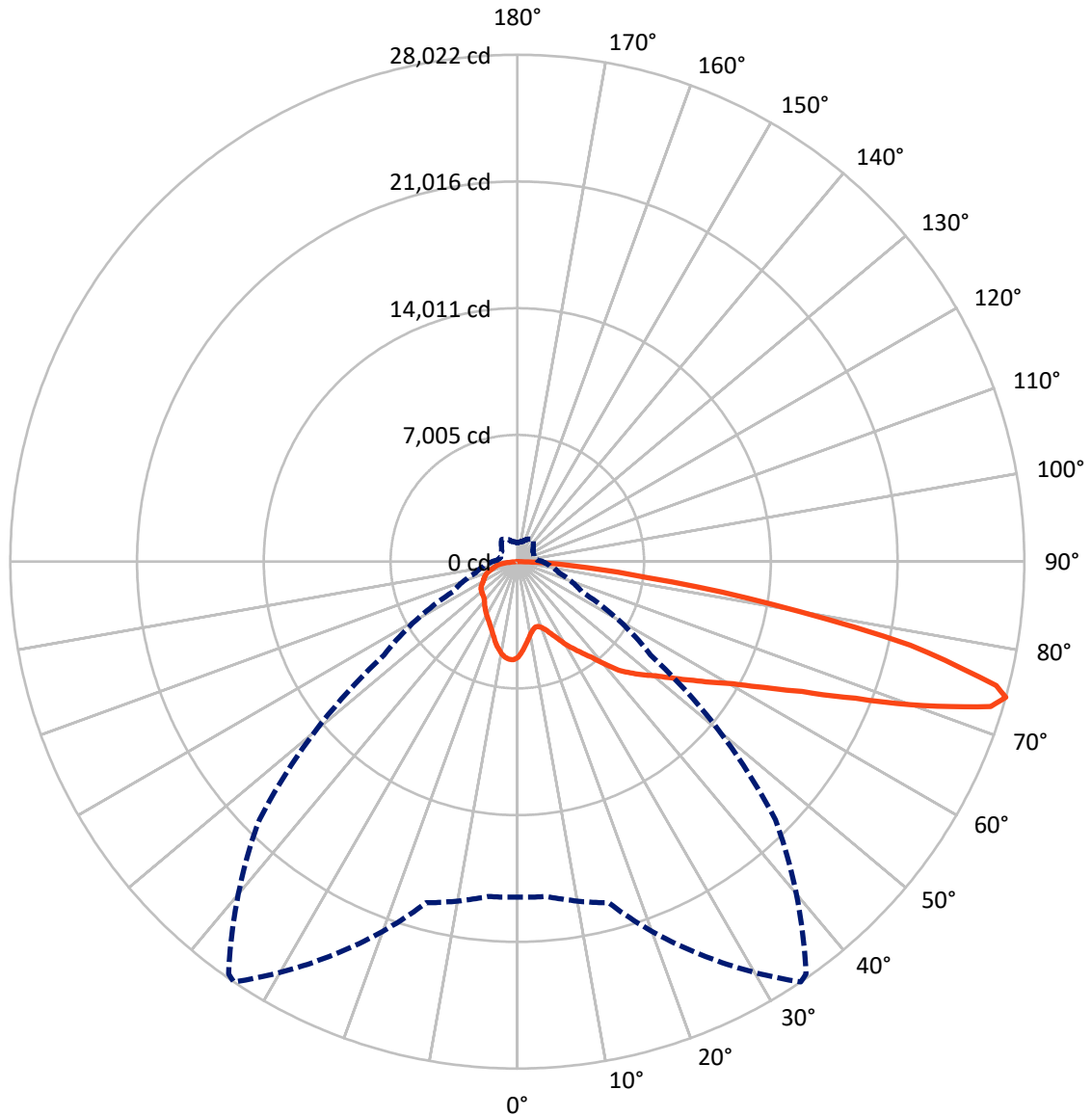
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	7362.1	0.0	7362.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	27232.9	0.0	27232.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	34595.0	0.0	34595.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.4	1.4
10°-20°	1315.0	3.8
20°-30°	2168.1	6.3
30°-40°	3247.6	9.4
40°-50°	4721.1	13.6
50°-60°	6594.2	19.1
60°-70°	8255.6	23.9
70°-80°	6826.7	19.7
80°-90°	986.4	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°	34595.0	100.0
0°-180°	34595.0	100.0

Coefficient of Utilization



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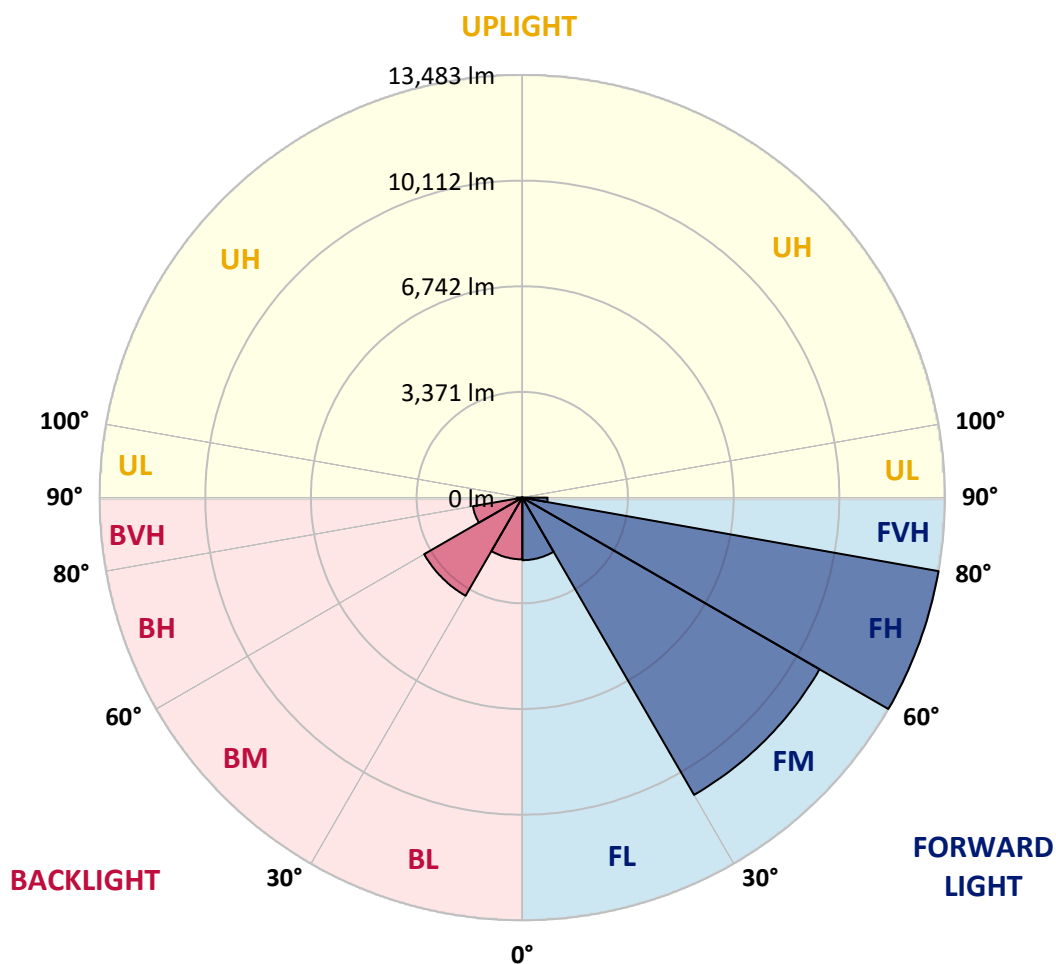
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1994.2	5.8			
FM	(30°-60°)	10947.3	31.6			
FH	(60°-80°)	13483.3	39.0			G5
FVH	(80°-90°)	808.1	2.3			G5
BL	(0°-30°)	1969.2	5.7	B3/2500		
BM	(30°-60°)	3615.5	10.5	B3/5000		
BH	(60°-80°)	1599.0	4.6	B3/2500		G3/2500
BVH	(80°-90°)	178.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0
2.5°	4881.4	4906.3	4919.7	4967.7	4979.2	4994.5	5034.7	5088.4	5157.4	5218.7	5272.4
5°	4475.1	4513.4	4536.4	4578.6	4661.0	4668.7	4776.0	4898.7	5038.6	5168.9	5276.2
7.5°	4089.9	4132.1	4151.2	4227.9	4337.1	4354.4	4511.5	4705.1	4938.9	5136.3	5301.1
10°	3800.5	3821.6	3863.7	3921.2	4051.6	4063.1	4268.1	4526.9	4829.7	5121.0	5343.3
12.5°	3643.3	3654.8	3664.4	3725.7	3854.2	3871.4	4086.1	4379.3	4743.4	5132.5	5412.3
15°	3666.3	3670.2	3628.0	3639.5	3743.0	3767.9	3980.6	4281.5	4689.8	5161.2	5515.8
17.5°	3859.9	3846.5	3743.0	3689.3	3762.2	3773.7	3959.6	4243.2	4664.8	5214.9	5623.1
20°	4164.6	4145.5	3967.2	3848.4	3890.6	3900.2	4028.6	4272.0	4689.8	5303.1	5789.9
22.5°	4544.1	4536.4	4266.2	4122.5	4120.6	4120.6	4187.6	4375.5	4764.5	5423.8	5964.3
25°	5075.0	5034.7	4682.1	4496.2	4444.4	4440.6	4432.9	4546.0	4860.3	5552.2	6171.2
27.5°	5619.3	5550.3	5236.0	4950.4	4839.3	4825.8	4776.0	4787.5	4983.0	5697.9	6407.0
30°	6108.0	6063.9	5768.8	5452.5	5320.3	5289.6	5151.6	5088.4	5188.1	5960.4	6782.6
32.5°	6481.7	6454.9	6224.9	5937.4	5741.9	5736.2	5535.0	5483.2	5508.1	6278.6	7211.9
35°	6784.5	6794.1	6677.2	6428.1	6203.8	6171.2	6037.1	5971.9	5899.1	6738.5	7752.4
37.5°	7198.5	7219.6	7211.9	6997.3	6723.2	6730.9	6700.2	6592.9	6399.3	7252.2	8352.3
40°	7654.6	7670.0	7668.1	7585.6	7441.9	7449.6	7438.1	7315.4	7026.0	7905.7	9019.2
42.5°	8285.2	8212.4	8022.6	8105.0	8189.4	8225.8	8304.3	8187.4	7790.7	8603.3	9645.9
45°	8990.5	8852.5	8423.2	8461.5	8773.9	8842.9	9276.0	9115.0	8620.6	9404.4	10383.8
47.5°	9435.1	9299.0	8936.8	8929.1	9343.1	9410.2	10176.8	10117.4	9375.7	10268.8	11284.6
50°	9831.8	9812.7	9404.4	9502.2	9906.6	10006.2	11158.1	11102.5	10128.9	11288.4	12265.8
52.5°	10420.2	10265.0	9939.2	10140.4	10675.1	10805.4	12131.7	11968.8	10820.8	12189.2	13218.3
55°	10684.7	10648.3	10629.1	10803.5	11537.5	11631.5	13078.4	12704.7	11411.1	12951.9	13942.8
57.5°	11391.9	11324.8	11514.5	11633.4	12553.3	12697.0	14067.4	13473.2	11928.5	13557.6	14295.4
60°	12308.0	12271.6	12446.0	12660.6	13687.9	13906.4	15194.3	14128.7	12344.4	13862.3	14101.9
62.5°	13676.4	13672.6	13640.0	14100.0	15295.9	15497.1	16488.0	14766.9	12409.6	13634.2	13101.4
65°	15638.9	15569.9	15286.3	15788.4	17296.7	17532.5	17835.3	15123.4	12016.7	12463.2	11031.6
67.5°	17691.5	17687.7	17457.7	18109.3	20169.6	20413.0	19519.9	15044.8	10926.2	10096.3	7834.8
70°	19393.4	19311.0	19604.2	21340.6	23839.8	24121.5	20993.7	14119.1	8703.0	6667.6	4655.3
72.5°	19801.6	19805.5	20414.9	23832.1	27364.3	27408.4	21524.6	11443.6	5824.4	3677.8	2328.6
74°	18544.4	18577.0	19521.8	23956.7	28021.7	27822.3	20167.7	8994.3	3938.5	2401.4	1678.9
75°	16926.8	16721.8	18088.3	23126.8	27339.4	27124.7	18578.9	7217.7	3005.1	1918.5	1470.0
77.5°	9049.9	9258.8	11367.0	17258.4	22210.7	21963.5	12597.4	3461.3	1623.3	1335.8	1057.9
80°	3221.7	3553.3	4994.5	9030.7	14239.9	14316.5	6012.2	1586.9	1142.3	985.1	747.4
82.5°	1314.7	1351.2	2144.6	4007.5	7231.1	7300.1	2455.1	942.9	816.4	678.5	446.6
85°	513.6	529.0	948.7	1801.5	3085.6	3286.9	849.0	498.3	502.1	389.1	228.1
87.5°	172.5	195.5	389.1	599.9	1048.3	1027.3	247.2	147.6	180.2	168.7	70.9
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°	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0	5282.0
2.5°	5299.2	5335.6	5360.6	5387.4	5412.3	5420.0	5414.2	5431.5	5433.4	5435.3	5437.2
5°	5329.9	5379.7	5427.6	5454.5	5466.0	5456.4	5423.8	5406.5	5391.2	5379.7	5383.5
7.5°	5372.0	5443.0	5487.0	5498.5	5467.9	5423.8	5343.3	5280.1	5239.8	5213.0	5211.1
10°	5437.2	5506.2	5542.6	5510.0	5425.7	5318.4	5191.9	5073.1	4983.0	4956.2	4954.2
12.5°	5519.6	5598.2	5596.3	5500.5	5352.9	5161.2	4956.2	4818.2	4695.5	4634.2	4659.1
15°	5626.9	5686.4	5630.8	5458.3	5224.5	4961.9	4708.9	4521.1	4383.1	4318.0	4321.8
17.5°	5751.5	5803.3	5655.7	5383.5	5044.3	4707.0	4413.8	4235.5	4126.3	4078.4	4074.6
20°	5906.8	5922.1	5655.7	5253.2	4812.4	4409.9	4130.1	4005.6	3944.2	3919.3	3927.0
22.5°	6073.5	6042.8	5625.0	5069.2	4507.7	4099.5	3911.6	3856.1	3825.4	3821.6	3825.4
25°	6261.3	6175.1	5561.8	4820.1	4189.5	3831.2	3721.9	3731.5	3737.2	3737.2	3750.7
27.5°	6491.3	6318.8	5456.4	4505.8	3817.7	3582.0	3551.3	3618.4	3649.1	3654.8	3664.4
30°	6794.1	6476.0	5282.0	4112.9	3501.5	3357.8	3411.4	3501.5	3536.0	3557.1	3553.3
32.5°	7154.4	6648.5	5046.2	3720.0	3246.6	3200.6	3265.8	3357.8	3396.1	3407.6	3392.3
35°	7578.0	6843.9	4735.8	3352.0	3024.3	3051.1	3127.8	3156.5	3191.0	3191.0	3198.7
37.5°	8034.1	7001.1	4356.3	3014.7	2851.8	2949.5	3005.1	2978.3	2963.0	2943.8	2953.4
40°	8497.9	7118.0	3863.7	2681.2	2679.3	2844.1	2859.5	2782.8	2721.5	2702.3	2692.7
42.5°	8902.3	7190.8	3419.1	2422.5	2516.4	2740.6	2752.1	2629.5	2531.7	2474.2	2455.1
45°	9379.5	7275.2	2984.0	2207.8	2365.0	2658.2	2687.0	2522.2	2378.4	2257.7	2227.0
47.5°	10033.1	7466.8	2641.0	2041.1	2255.8	2606.5	2646.7	2434.0	2244.3	2087.1	2062.2
50°	10770.9	7729.4	2374.6	1928.0	2171.4	2560.5	2610.3	2343.9	2119.7	1945.3	1926.1
52.5°	11447.5	7871.2	2144.6	1826.5	2089.0	2476.2	2562.4	2278.8	1997.0	1803.5	1786.2
55°	11817.4	7641.2	1918.5	1726.8	1975.9	2366.9	2495.3	2188.7	1878.2	1728.7	1703.8
57.5°	11867.2	7165.9	1713.4	1619.5	1857.1	2232.8	2370.8	2079.4	1801.5	1677.0	1655.9
60°	11482.0	6456.8	1554.3	1531.3	1736.4	2081.4	2230.8	1983.6	1723.0	1619.5	1598.4
62.5°	10523.7	5686.4	1443.2	1450.8	1613.7	1922.3	2127.4	1891.6	1648.2	1556.2	1537.1
65°	8875.5	4693.6	1335.8	1368.4	1504.5	1797.7	2033.4	1815.0	1573.5	1508.3	1491.1
67.5°	6165.5	3388.4	1247.7	1282.2	1401.0	1671.2	1924.2	1732.5	1489.1	1454.7	1427.8
70°	3413.4	2085.2	1144.2	1184.4	1293.7	1529.4	1801.5	1608.0	1366.5	1351.2	1312.8
72.5°	1793.9	1328.2	1027.3	1071.3	1148.0	1347.3	1613.7	1471.9	1245.7	1180.6	1130.8
74°	1401.0	1088.6	948.7	994.7	1046.4	1240.0	1502.6	1374.2	1159.5	1082.8	1044.5
75°	1220.8	969.8	881.6	941.0	987.0	1167.2	1416.3	1305.2	1111.6	1038.8	1004.3
77.5°	862.4	726.4	720.6	791.5	816.4	1023.4	1276.4	1188.3	990.8	914.2	881.6
80°	605.6	544.3	571.1	615.2	649.7	904.6	1184.4	1027.3	812.6	722.5	711.0
82.5°	394.8	356.5	408.2	448.5	460.0	667.0	956.4	780.0	592.2	481.1	446.6
85°	182.1	178.2	233.8	228.1	226.2	325.8	567.3	456.1	341.1	254.9	239.6
87.5°	46.0	44.1	57.5	47.9	57.5	49.8	51.7	13.4	1.9	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)