

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: P453926

Luminaire Tested: **GALN-SA5A-727-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453926
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-SA5A-727-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 19600 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

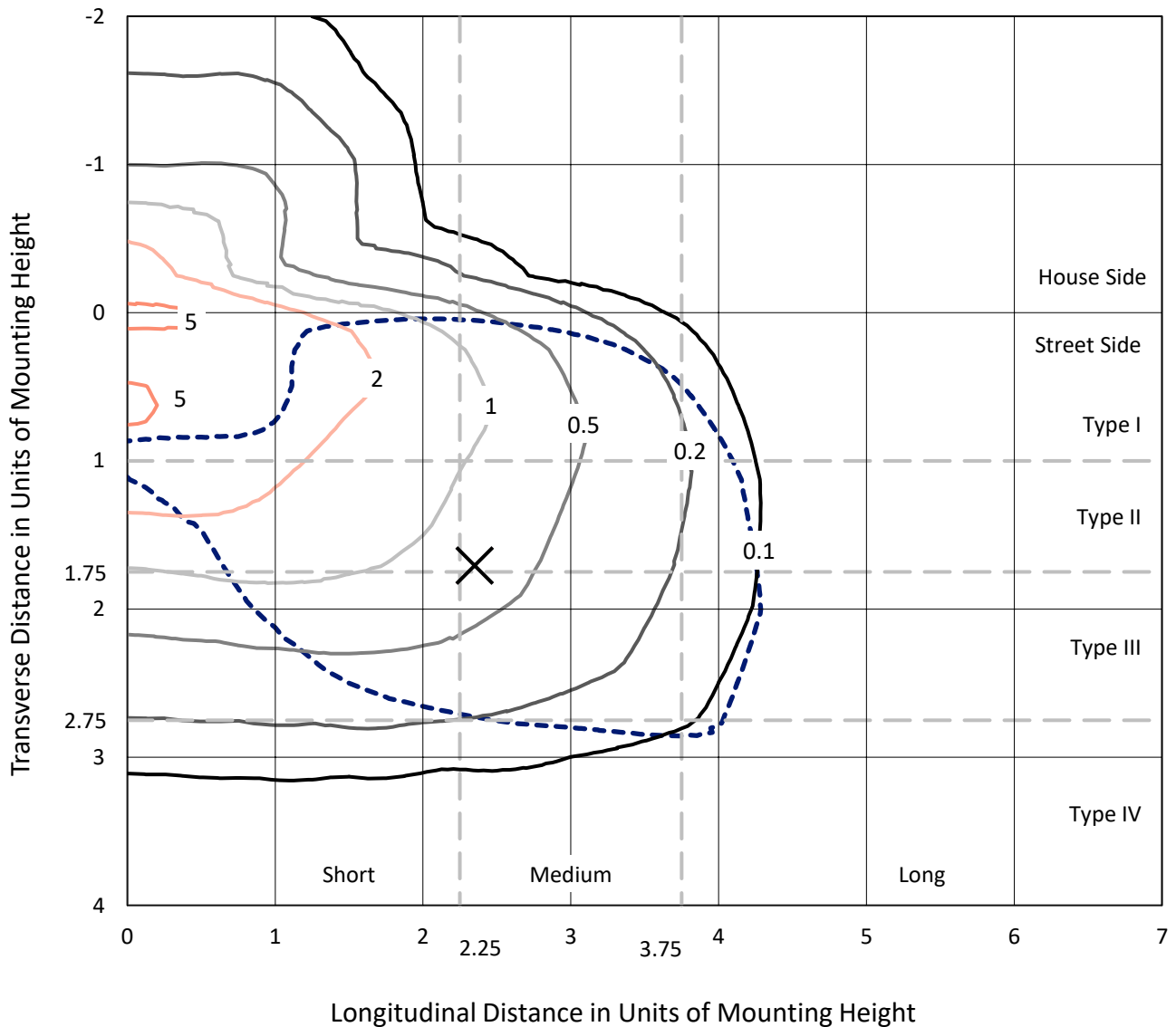
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

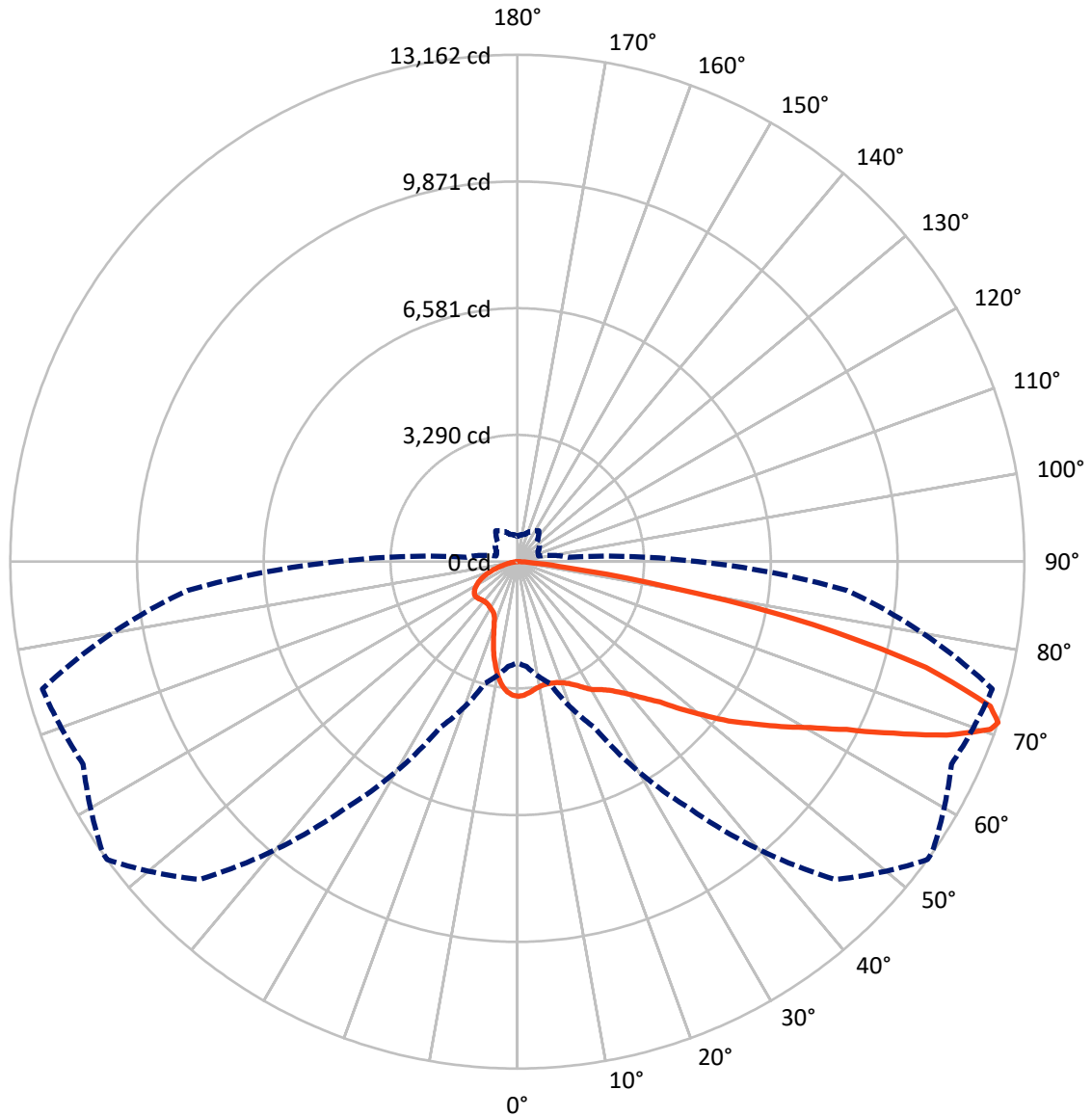
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	3538.7	0.0	3538.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16061.3	0.0	16061.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	19600.0	0.0	19600.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.6	1.6
10°-20°	822.9	4.2
20°-30°	1370.1	7.0
30°-40°	2025.9	10.3
40°-50°	2853.6	14.6
50°-60°	3821.1	19.5
60°-70°	4816.2	24.6
70°-80°	3289.4	16.8
80°-90°	289.3	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°	19600.0	100.0
0°-180°	19600.0	100.0

Coefficient of Utilization



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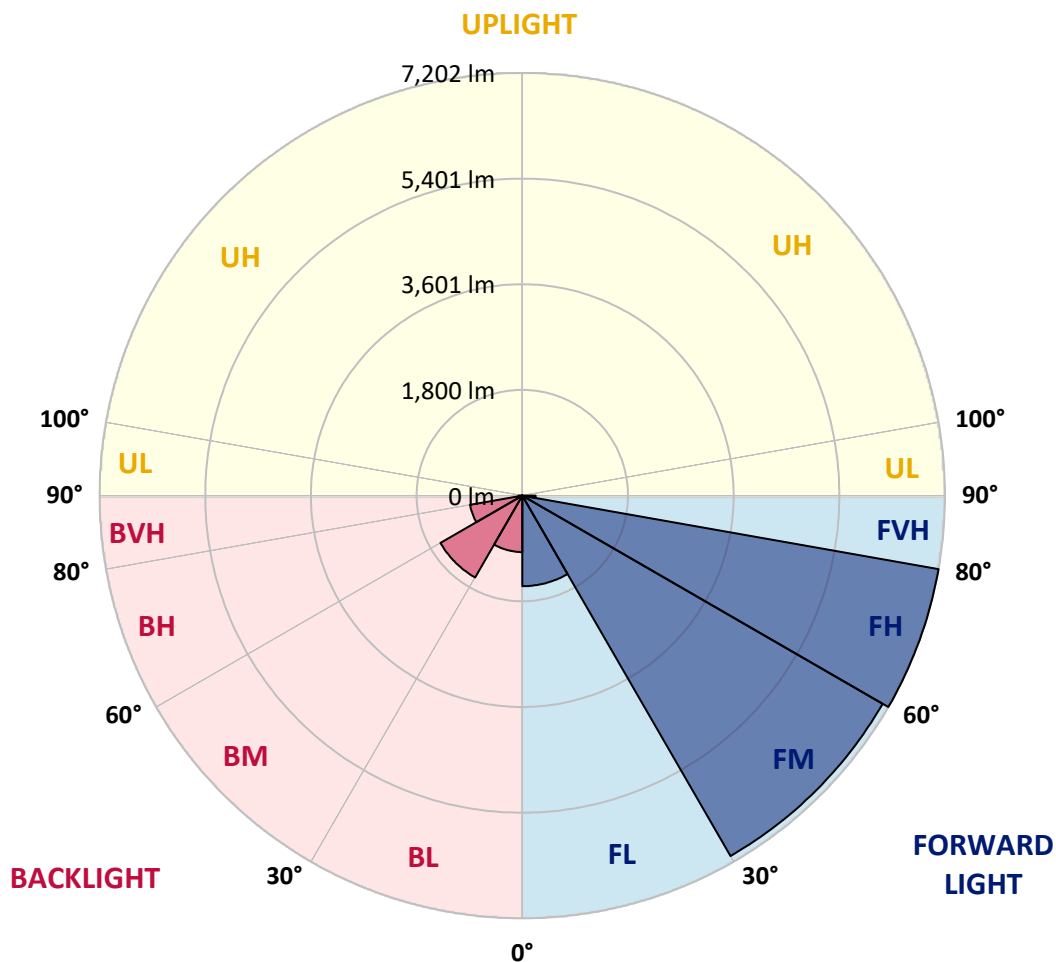
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1542.8	7.9			
FM	(30°-60°)	7090.6	36.2			
FH	(60°-80°)	7201.8	36.7			G3/7500
FVH	(80°-90°)	226.1	1.2			G3/500
BL	(0°-30°)	961.7	4.9	B2/1000		
BM	(30°-60°)	1610.0	8.2	B2/2500		
BH	(60°-80°)	903.8	4.6	B2/1000		G2/1000
BVH	(80°-90°)	63.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9
2.5°	3378.4	3394.2	3398.5	3409.1	3431.3	3449.3	3467.3	3465.2	3490.6	3501.2	3510.7
5°	3228.0	3232.3	3248.1	3269.3	3308.5	3358.2	3406.9	3408.0	3470.5	3520.2	3544.6
7.5°	3117.9	3131.7	3142.3	3164.5	3205.8	3259.8	3337.1	3343.4	3454.6	3553.0	3604.9
10°	3045.9	3061.8	3073.4	3101.0	3142.3	3202.6	3286.2	3297.9	3442.9	3604.9	3696.0
12.5°	2980.3	2996.2	3006.7	3042.7	3096.7	3170.8	3265.1	3278.8	3447.2	3665.3	3795.5
15°	3020.5	3033.2	3029.0	3039.6	3075.6	3160.3	3273.5	3287.3	3463.1	3723.5	3893.9
17.5°	3199.4	3210.0	3175.1	3134.9	3117.9	3180.4	3300.0	3314.8	3494.8	3783.8	3994.5
20°	3463.1	3491.6	3415.4	3325.4	3243.9	3252.4	3355.1	3370.9	3539.3	3844.2	4097.2
22.5°	3806.1	3827.2	3734.1	3585.9	3435.5	3358.2	3437.6	3447.2	3606.0	3922.5	4209.4
25°	4209.4	4222.1	4093.0	3902.4	3685.4	3539.3	3550.9	3567.9	3716.1	4011.5	4309.0
27.5°	4601.2	4641.4	4492.1	4259.2	3973.4	3729.8	3706.6	3717.1	3835.7	4061.2	4377.8
30°	5065.9	5062.8	4905.0	4635.0	4268.7	3937.4	3853.7	3851.6	3900.3	4085.6	4427.5
32.5°	5436.5	5479.9	5325.3	5031.0	4606.5	4152.3	3955.4	3951.1	3950.1	4127.9	4501.6
35°	5857.9	5864.2	5722.3	5425.9	4971.7	4422.2	4097.2	4076.0	4051.7	4219.0	4602.2
37.5°	6234.8	6264.4	6134.2	5801.7	5330.6	4702.8	4292.0	4278.3	4204.2	4376.7	4763.2
40°	6529.1	6551.3	6473.0	6156.4	5684.2	5005.6	4539.8	4514.4	4424.4	4635.0	4978.1
42.5°	6625.4	6671.0	6701.7	6546.0	6090.8	5364.5	4844.7	4812.9	4744.1	5026.8	5225.8
45°	6632.8	6704.8	6866.8	6874.2	6499.4	5794.3	5200.4	5178.2	5172.9	5528.6	5574.1
47.5°	6576.7	6649.8	6921.9	7069.0	6863.6	6228.4	5713.9	5678.9	5682.1	6149.0	5964.8
50°	6441.2	6528.0	6858.3	7194.0	7148.4	6679.4	6255.9	6244.3	6309.9	6857.3	6370.3
52.5°	6186.1	6290.9	6792.7	7272.3	7360.2	7068.0	6872.1	6839.3	7005.5	7625.9	6813.9
55°	5479.9	5637.6	6552.4	7315.7	7561.3	7439.6	7426.9	7486.2	7706.4	8464.4	7301.9
57.5°	5111.5	5230.0	6030.4	7323.1	7815.4	7871.5	8074.8	8089.6	8475.0	9354.8	7853.5
60°	4910.3	5015.1	5744.6	7274.4	8170.1	8406.2	8737.6	8790.5	9225.6	10319.3	8425.2
62.5°	4734.6	4824.6	5573.1	7106.1	8570.3	9199.2	9596.2	9621.6	10077.9	11384.3	8989.5
65°	4320.6	4423.3	5227.9	6937.7	8915.4	10190.1	10735.4	10705.7	10985.2	12303.3	9343.1
67.5°	3762.7	3892.9	4583.2	6356.5	9085.9	11273.2	12018.5	11981.5	11880.9	12905.7	9444.8
70°	3050.2	3120.0	3758.4	5351.8	8405.1	11841.7	13031.7	12992.5	12435.6	12985.1	8964.1
71°	2624.6	2733.6	3272.5	4753.6	7838.7	11668.1	13161.9	13151.3	12436.7	12766.0	8602.0
72.5°	2048.6	2115.3	2591.7	3683.3	6662.5	10681.4	12840.1	12880.3	12166.7	12157.2	7855.7
75°	1295.9	1325.5	1626.2	2168.2	3655.7	7564.5	10960.9	11069.9	10803.1	9950.8	5842.0
77.5°	752.7	790.9	974.0	1277.9	1579.6	4105.7	7842.9	7961.5	7506.3	5478.8	2391.6
80°	438.3	480.7	641.6	742.2	725.2	1523.5	3993.5	4195.7	3250.3	1383.7	671.2
82.5°	243.5	272.1	451.0	452.1	386.4	497.6	1256.7	1314.9	927.4	557.9	274.2
85°	176.8	200.1	291.1	263.6	185.3	213.9	437.2	458.4	374.8	235.0	88.9
87.5°	62.5	88.9	159.9	127.0	50.8	44.5	126.0	102.7	95.3	65.6	20.1
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°	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9	3496.9
2.5°	3516.0	3518.1	3507.5	3488.5	3469.4	3445.1	3417.5	3396.4	3386.8	3385.8	3384.7
5°	3554.1	3559.4	3519.2	3459.9	3394.2	3313.8	3245.0	3166.6	3146.5	3114.7	3124.3
7.5°	3615.5	3612.3	3532.9	3406.9	3253.4	3083.0	2939.0	2855.3	2768.5	2744.2	2745.2
10°	3703.4	3683.3	3532.9	3299.0	3042.7	2789.7	2588.6	2461.5	2392.7	2335.5	2314.3
12.5°	3796.5	3745.7	3499.0	3147.6	2771.7	2461.5	2245.5	2074.0	2029.6	1983.0	1984.0
15°	3885.5	3800.8	3432.3	2934.8	2479.5	2111.1	1901.4	1798.8	1785.0	1790.3	1789.2
17.5°	3965.9	3840.0	3330.7	2697.6	2138.6	1810.4	1699.2	1706.6	1743.7	1770.2	1773.3
20°	4047.5	3863.2	3179.3	2380.0	1816.8	1628.3	1632.5	1690.8	1746.9	1782.9	1788.2
22.5°	4124.7	3873.8	3001.5	2073.0	1583.8	1551.0	1613.5	1675.9	1731.0	1765.9	1771.2
25°	4175.6	3849.5	2749.5	1752.2	1469.5	1523.5	1589.1	1642.1	1688.6	1724.6	1733.1
27.5°	4189.3	3771.1	2437.2	1492.8	1416.6	1497.0	1557.4	1596.5	1632.5	1666.4	1672.8
30°	4181.9	3655.7	2094.1	1340.3	1385.9	1466.3	1512.9	1541.5	1584.9	1611.4	1616.7
32.5°	4170.3	3521.3	1736.3	1258.8	1360.4	1437.7	1465.3	1490.7	1489.6	1479.0	1486.4
35°	4174.5	3360.4	1446.2	1210.1	1338.2	1416.6	1439.9	1408.1	1317.0	1312.8	1308.6
37.5°	4196.7	3201.5	1235.5	1176.2	1326.6	1413.4	1426.1	1280.0	1199.5	1162.5	1152.9
40°	4253.9	3016.3	1096.8	1150.8	1325.5	1437.7	1363.6	1215.4	1060.8	988.8	983.5
42.5°	4330.1	2834.2	1012.1	1134.9	1338.2	1474.8	1338.2	1124.4	956.0	913.7	907.3
45°	4443.4	2625.6	965.5	1127.5	1357.3	1488.6	1329.7	1057.7	913.7	879.8	879.8
47.5°	4571.5	2426.6	940.1	1122.2	1381.6	1479.0	1254.6	1036.5	893.6	897.8	917.9
50°	4698.6	2254.0	921.1	1110.6	1402.8	1473.7	1223.9	1035.4	898.8	952.8	988.8
52.5°	4845.7	2132.2	897.8	1091.5	1402.8	1439.9	1214.3	1056.6	913.7	929.6	945.4
55°	5023.6	2094.1	868.1	1050.2	1377.4	1355.2	1209.1	1087.3	924.3	887.2	893.6
57.5°	5258.6	2155.5	839.6	998.4	1319.2	1267.3	1206.9	1095.8	899.9	869.2	862.9
60°	5531.8	2277.3	831.1	945.4	1239.8	1192.1	1194.2	1071.4	866.0	834.3	839.6
62.5°	5723.4	2350.3	825.8	905.2	1152.9	1109.5	1163.5	1041.8	851.2	823.7	829.0
65°	5723.4	2261.4	777.1	843.8	1040.7	1010.0	1126.5	1004.7	832.1	800.4	795.1
67.5°	5506.4	2002.0	703.0	751.7	916.8	896.7	1074.6	960.3	803.6	779.2	766.5
70°	4941.0	1518.2	609.8	643.7	760.2	778.2	1007.9	899.9	755.9	726.3	707.2
71°	4692.2	1322.3	570.6	588.6	699.8	726.3	976.1	874.5	734.7	692.4	658.5
72.5°	4212.6	1113.8	511.4	518.8	598.2	645.8	909.4	825.8	694.5	634.2	596.1
75°	3200.5	813.1	411.8	407.6	442.5	512.4	769.7	735.8	608.8	527.2	505.0
77.5°	1382.7	442.5	308.1	311.3	300.7	388.5	605.6	632.1	521.9	428.8	408.7
80°	419.3	255.1	210.7	214.9	201.2	260.4	426.7	495.5	419.3	333.5	306.0
82.5°	214.9	152.5	144.0	141.9	128.1	147.2	258.3	338.8	299.6	208.6	184.2
85°	93.2	81.5	70.9	68.8	60.3	52.9	92.1	169.4	158.8	116.5	111.2
87.5°	23.3	21.2	13.8	12.7	7.4	1.1	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)