

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: P651922

Luminaire Tested: **GALN-SA5A-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651922
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-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 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: 19709.7 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

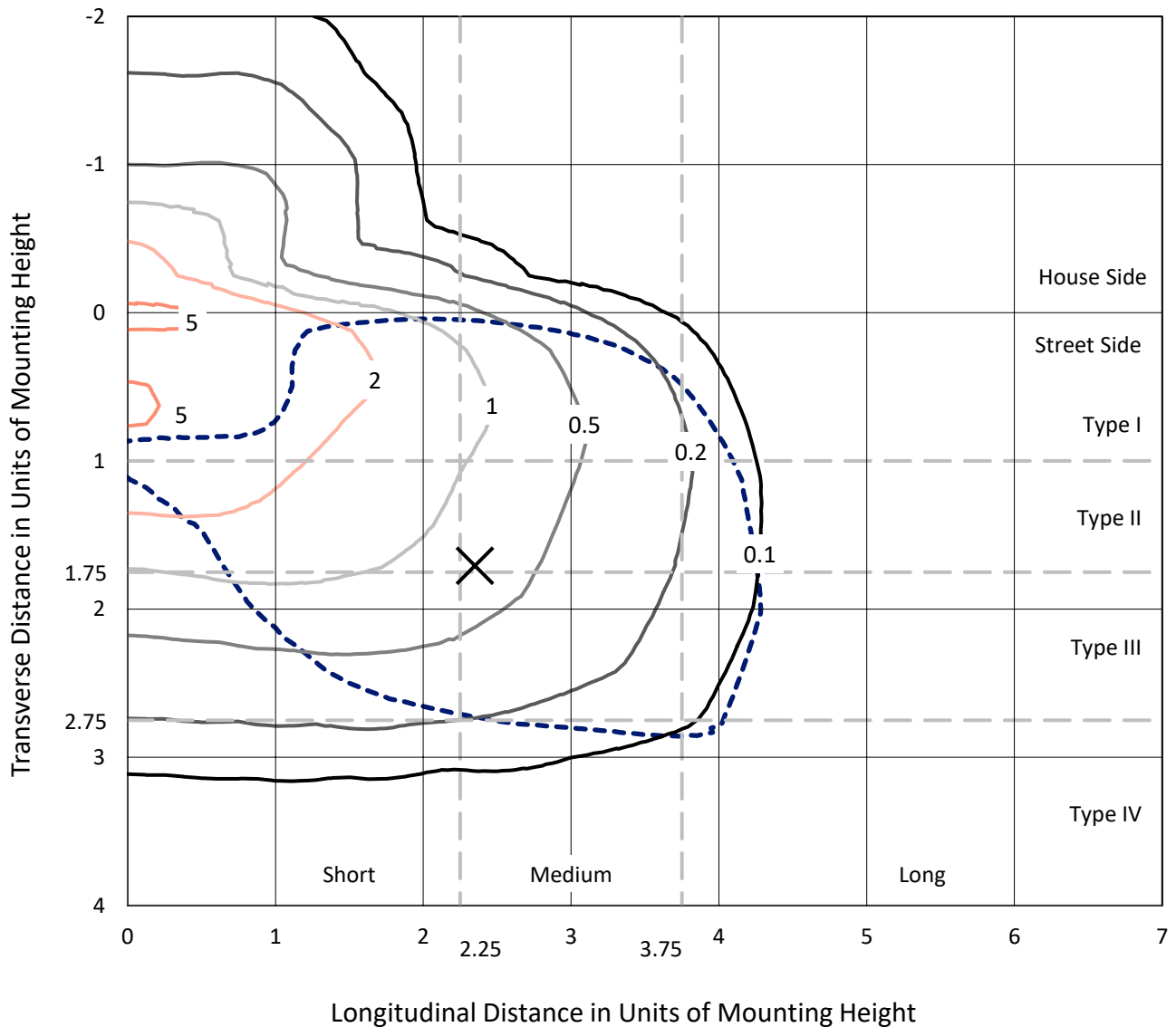
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

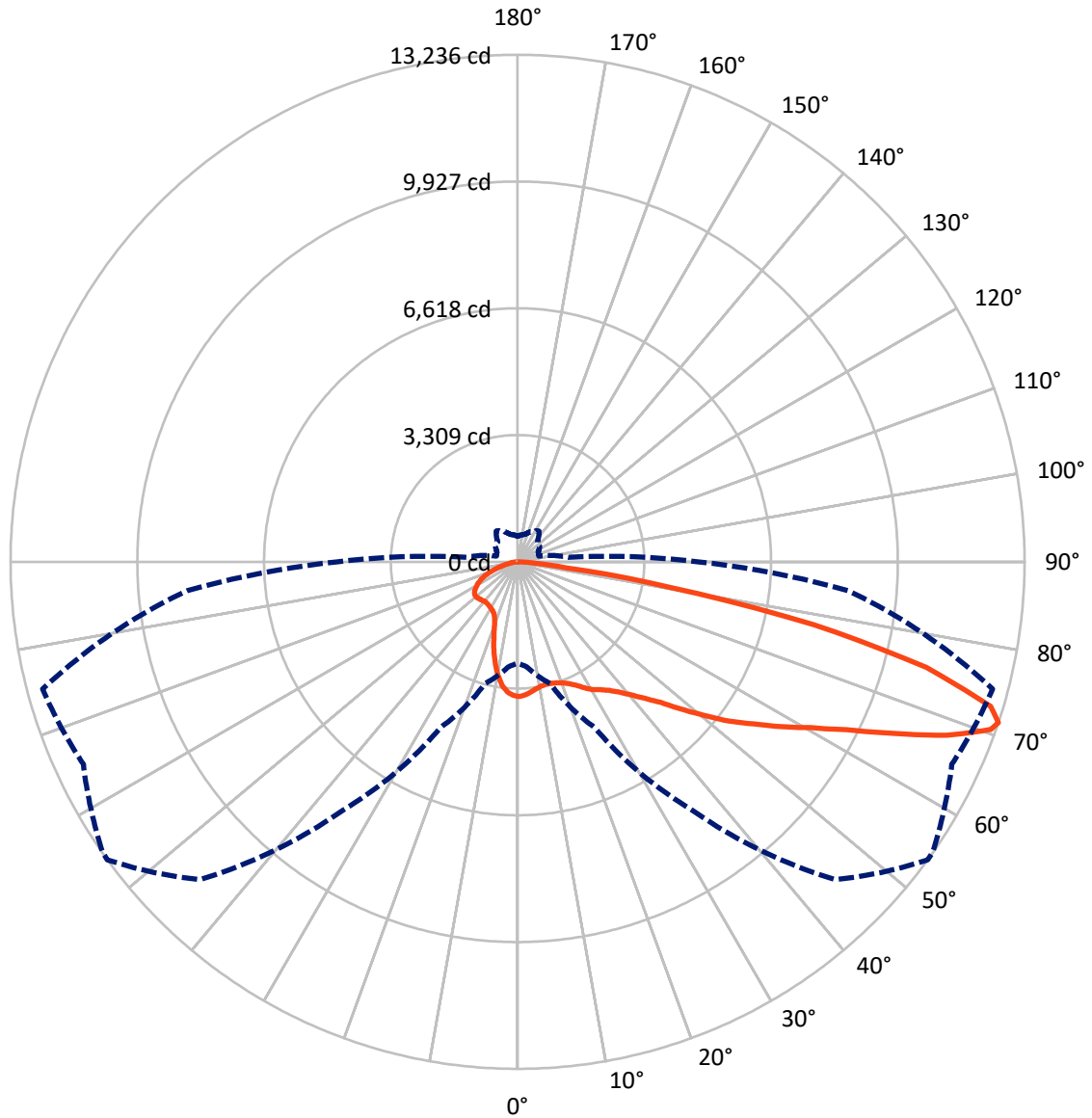
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	3558.5	0.0	3558.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16151.2	0.0	16151.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	19709.7	0.0	19709.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.4	1.6
10°-20°	827.5	4.2
20°-30°	1377.8	7.0
30°-40°	2037.3	10.3
40°-50°	2869.5	14.6
50°-60°	3842.4	19.5
60°-70°	4843.1	24.6
70°-80°	3307.8	16.8
80°-90°	290.9	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°	19709.7	100.0
0°-180°	19709.7	100.0

Coefficient of Utilization

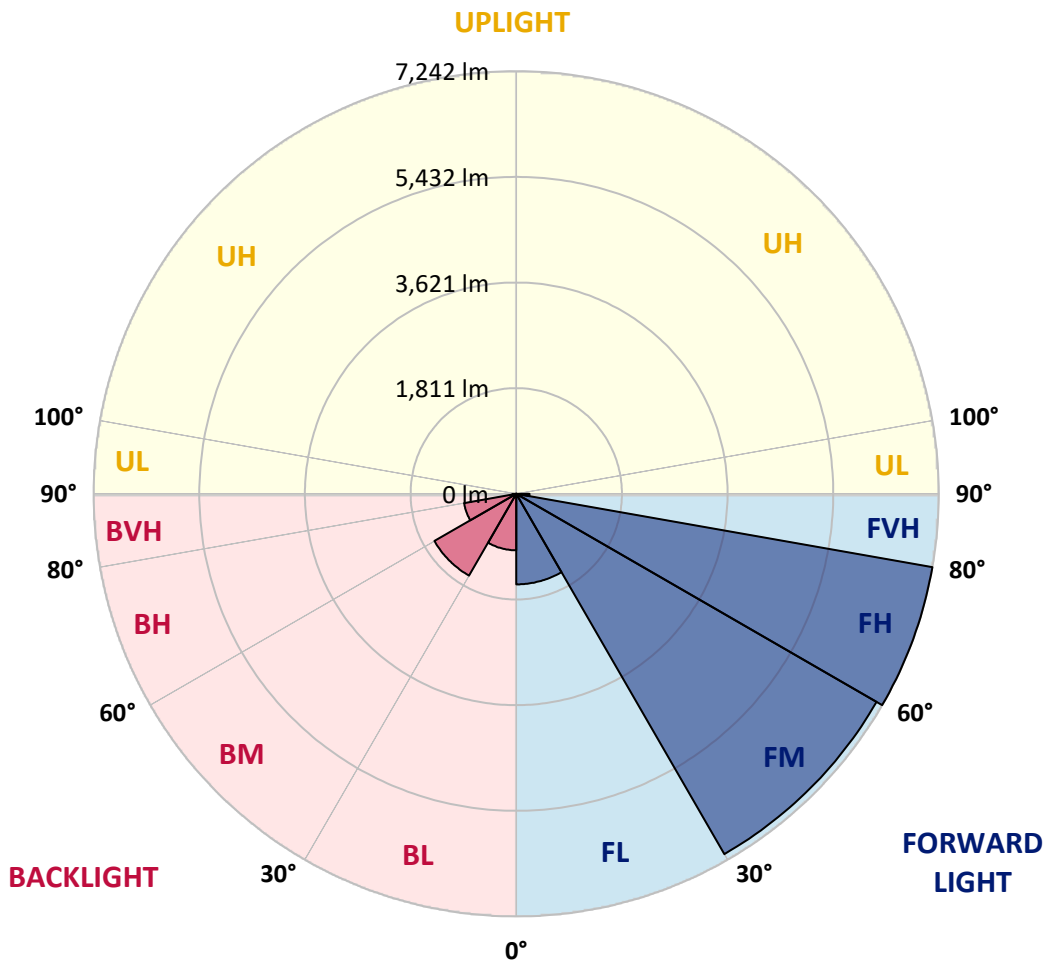


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1551.5	7.9			
FM (30°-60°)	7130.3	36.2			
FH (60°-80°)	7242.1	36.7			G3/7500
FVH (80°-90°)	227.4	1.2			G3/500
BL (0°-30°)	967.1	4.9	B2/1000		
BM (30°-60°)	1619.0	8.2	B2/2500		
BH (60°-80°)	908.8	4.6	B2/1000		G2/1000
BVH (80°-90°)	63.5	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°	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5
2.5°	3397.2	3413.2	3417.5	3428.2	3450.5	3468.6	3486.7	3484.6	3510.1	3520.8	3530.3
5°	3246.1	3250.3	3266.3	3287.6	3327.0	3377.0	3426.0	3427.1	3489.9	3539.9	3564.4
7.5°	3135.3	3149.2	3159.8	3182.2	3223.7	3278.0	3355.8	3362.1	3473.9	3572.9	3625.1
10°	3062.9	3078.9	3090.7	3118.3	3159.8	3220.5	3304.6	3316.3	3462.2	3625.1	3716.6
12.5°	2997.0	3012.9	3023.6	3059.8	3114.1	3188.6	3283.3	3297.2	3466.4	3685.8	3816.7
15°	3037.4	3050.2	3045.9	3056.6	3092.8	3178.0	3291.8	3305.7	3482.4	3744.3	3915.7
17.5°	3217.3	3228.0	3192.9	3152.4	3135.3	3198.2	3318.5	3333.4	3514.4	3805.0	4016.9
20°	3482.4	3511.2	3434.6	3344.1	3262.1	3270.6	3373.8	3389.8	3559.1	3865.7	4120.1
22.5°	3827.4	3848.7	3755.0	3606.0	3454.7	3377.0	3456.8	3466.4	3626.1	3944.5	4233.0
25°	4233.0	4245.8	4115.9	3924.3	3706.0	3559.1	3570.8	3587.8	3736.9	4033.9	4333.1
27.5°	4626.9	4667.4	4517.3	4283.0	3995.6	3750.7	3727.3	3737.9	3857.2	4084.0	4402.3
30°	5094.3	5091.1	4932.5	4661.0	4292.6	3959.4	3875.2	3873.1	3922.1	4108.5	4452.3
32.5°	5466.9	5510.6	5355.2	5059.1	4632.2	4175.5	3977.5	3973.2	3972.1	4151.0	4526.9
35°	5890.6	5897.0	5754.4	5456.2	4999.6	4447.0	4120.1	4098.9	4074.4	4242.6	4627.9
37.5°	6269.7	6299.4	6168.5	5834.2	5360.4	4729.1	4316.0	4302.2	4227.7	4401.2	4789.8
40°	6565.6	6588.0	6509.2	6190.9	5716.0	5033.6	4565.2	4539.6	4449.1	4661.0	5005.9
42.5°	6662.5	6708.3	6739.2	6582.7	6124.8	5394.5	4871.7	4839.9	4770.7	5054.9	5255.1
45°	6670.0	6742.4	6905.2	6912.7	6535.8	5826.8	5229.5	5207.1	5201.8	5559.5	5605.3
47.5°	6613.5	6687.0	6960.6	7108.6	6902.1	6263.3	5745.9	5710.7	5713.9	6183.5	5998.2
50°	6477.2	6564.6	6896.7	7234.2	7188.4	6716.8	6290.9	6279.2	6345.3	6895.7	6405.9
52.5°	6220.7	6326.1	6830.7	7313.0	7401.4	7107.5	6910.6	6877.5	7044.7	7668.6	6852.0
55°	5510.6	5669.2	6589.1	7356.6	7603.6	7481.2	7468.4	7528.0	7749.5	8511.8	7342.8
57.5°	5140.1	5259.3	6064.2	7364.1	7859.1	7915.6	8120.0	8134.9	8522.4	9407.2	7897.5
60°	4937.8	5043.2	5776.7	7315.1	8215.8	8453.2	8786.4	8839.7	9277.2	10377.0	8472.4
62.5°	4761.1	4851.6	5604.3	7145.8	8618.2	9250.7	9649.9	9675.5	10134.3	11448.0	9039.8
65°	4344.8	4448.0	5257.2	6976.6	8965.3	10247.2	10795.4	10765.6	11046.7	12372.1	9395.4
67.5°	3783.7	3914.7	4608.8	6392.1	9136.7	11336.3	12085.8	12048.5	11947.3	12977.9	9497.7
70°	3067.2	3137.5	3779.5	5381.7	8452.1	11908.0	13104.6	13065.3	12505.2	13057.8	9014.3
71°	2639.2	2748.9	3290.8	4780.2	7882.6	11733.4	13235.6	13224.9	12506.3	12837.4	8650.2
72.5°	2060.1	2127.1	2606.3	3703.8	6699.7	10741.2	12912.0	12952.4	12234.8	12225.2	7899.6
75°	1303.1	1332.9	1635.3	2180.4	3676.2	7606.8	11022.2	11131.8	10863.5	10006.6	5874.6
77.5°	757.0	795.2	979.4	1285.0	1588.5	4128.6	7886.8	8006.1	7548.3	5509.5	2405.0
80°	440.8	483.3	645.1	746.3	729.3	1532.0	4015.8	4219.1	3268.5	1391.5	675.0
82.5°	244.9	273.6	453.6	454.6	388.6	500.4	1263.7	1322.3	932.6	561.0	275.8
85°	177.8	201.3	292.8	265.1	186.3	215.0	439.7	461.0	376.9	236.3	89.4
87.5°	62.8	89.4	160.8	127.7	51.1	44.7	126.7	103.3	95.8	66.0	20.3
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°	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5	3516.5
2.5°	3535.6	3537.8	3527.2	3508.0	3488.8	3464.3	3436.7	3415.4	3405.8	3404.7	3403.6
5°	3574.0	3579.3	3538.8	3479.2	3413.2	3332.3	3263.1	3184.4	3164.1	3132.1	3141.7
7.5°	3635.7	3632.5	3552.7	3426.0	3271.7	3100.3	2955.4	2871.3	2784.0	2759.6	2760.6
10°	3724.1	3703.8	3552.7	3317.4	3059.8	2805.3	2603.1	2475.3	2406.1	2348.6	2327.3
12.5°	3817.8	3766.7	3518.7	3165.2	2787.2	2475.3	2258.1	2085.6	2040.9	1994.1	1995.1
15°	3907.2	3822.0	3451.5	2951.2	2493.4	2122.9	1912.1	1808.8	1794.9	1800.3	1799.2
17.5°	3988.1	3861.5	3349.4	2712.7	2150.6	1820.5	1708.7	1716.2	1753.5	1780.1	1783.3
20°	4070.1	3884.8	3197.1	2393.3	1826.9	1637.4	1641.6	1700.2	1756.7	1792.8	1798.1
22.5°	4147.8	3895.5	3018.3	2084.6	1592.7	1559.7	1622.5	1685.3	1740.7	1775.9	1781.2
25°	4198.9	3871.0	2764.9	1762.0	1477.7	1532.0	1598.0	1651.2	1698.1	1734.3	1742.8
27.5°	4212.7	3792.2	2450.8	1501.1	1424.5	1505.4	1566.1	1605.5	1641.6	1675.8	1682.2
30°	4205.3	3676.2	2105.9	1347.9	1393.6	1474.5	1521.4	1550.1	1593.8	1620.4	1625.7
32.5°	4193.6	3540.9	1746.0	1265.9	1368.1	1445.8	1473.4	1499.0	1497.9	1487.3	1494.7
35°	4197.9	3379.1	1454.3	1216.8	1345.7	1424.5	1447.9	1416.0	1324.4	1320.1	1315.9
37.5°	4220.2	3219.4	1242.4	1182.8	1334.0	1421.3	1434.1	1287.2	1206.2	1169.0	1159.4
40°	4277.7	3033.2	1103.0	1157.3	1332.9	1445.8	1371.3	1222.2	1066.8	994.4	989.0
42.5°	4354.4	2850.1	1017.8	1141.3	1345.7	1483.0	1345.7	1130.6	961.3	918.8	912.4
45°	4468.3	2640.3	970.9	1133.8	1364.9	1496.9	1337.2	1063.6	918.8	884.7	884.7
47.5°	4597.1	2440.2	945.4	1128.5	1389.3	1487.3	1261.6	1042.3	898.5	902.8	923.1
50°	4724.8	2266.6	926.2	1116.8	1410.6	1482.0	1230.7	1041.2	903.9	958.2	994.4
52.5°	4872.8	2144.2	902.8	1097.7	1410.6	1447.9	1221.1	1062.5	918.8	934.8	950.8
55°	5051.7	2105.9	873.0	1056.1	1385.1	1362.8	1215.8	1093.4	929.4	892.1	898.5
57.5°	5288.0	2167.6	844.3	1004.0	1326.5	1274.4	1213.6	1101.9	904.9	874.1	867.7
60°	5562.7	2290.0	835.7	950.8	1246.7	1198.8	1200.9	1077.4	870.9	838.9	844.3
62.5°	5755.5	2363.5	830.4	910.3	1159.4	1115.8	1170.0	1047.6	856.0	828.3	833.6
65°	5755.5	2274.1	781.5	848.5	1046.5	1015.7	1132.7	1010.4	836.8	804.8	799.5
67.5°	5537.1	2013.3	706.9	755.9	922.0	901.7	1080.6	965.6	808.0	783.6	770.8
70°	4968.6	1526.7	613.3	647.3	764.4	782.6	1013.6	904.9	760.2	730.3	711.1
71°	4718.5	1329.7	573.8	592.0	703.7	730.3	981.6	879.3	738.8	696.3	662.2
72.5°	4236.2	1120.0	514.2	521.7	601.5	649.4	914.5	830.4	698.4	637.7	599.4
75°	3218.4	817.6	414.1	409.9	445.1	515.3	774.0	739.9	612.2	530.2	507.8
77.5°	1390.4	445.1	309.8	313.0	302.3	390.7	609.0	635.6	524.9	431.2	410.9
80°	421.6	256.6	211.8	216.1	202.3	261.9	429.1	498.2	421.6	335.4	307.7
82.5°	216.1	153.3	144.8	142.6	128.8	148.0	259.8	340.7	301.3	209.7	185.3
85°	93.7	82.0	71.3	69.2	60.7	53.2	92.6	170.3	159.7	117.2	111.8
87.5°	23.5	21.3	13.9	12.8	7.5	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)