

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: P453259

Luminaire Tested: **GALN-SA4B-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453259
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-SA4B-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20978 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

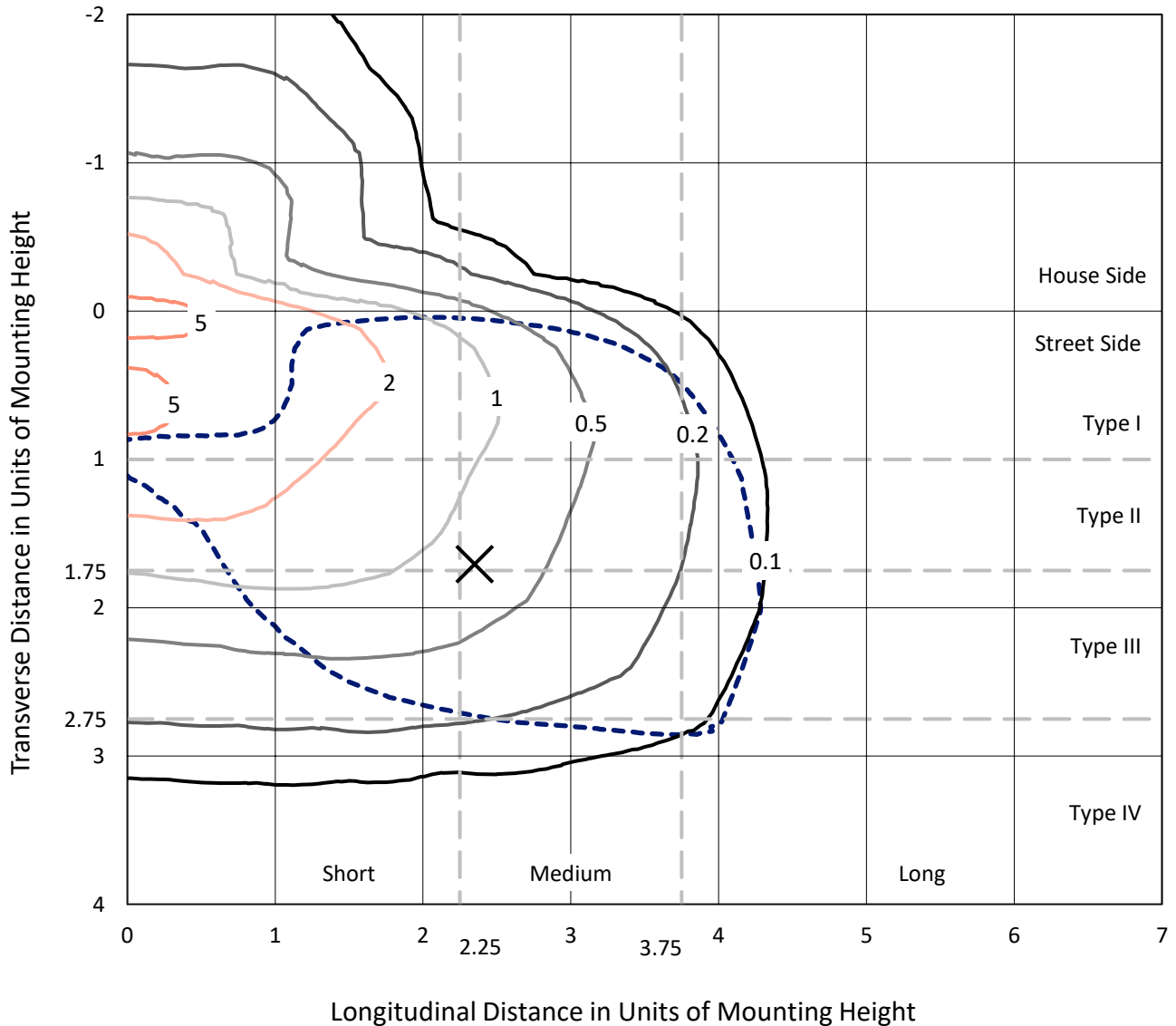
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

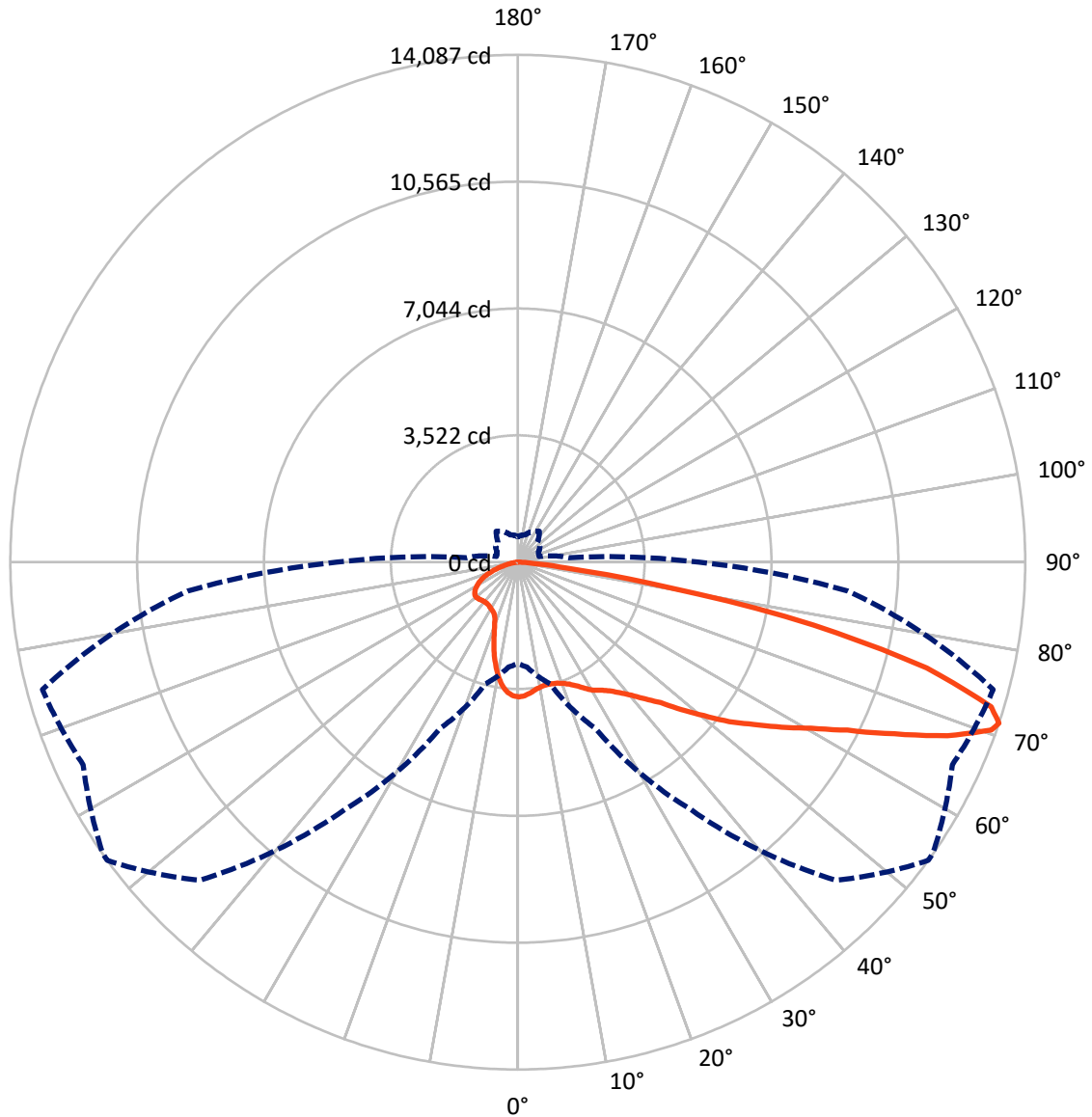
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	3787.4	0.0	3787.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17190.6	0.0	17190.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	20978.0	0.0	20978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.5	1.6
10°-20°	880.7	4.2
20°-30°	1466.4	7.0
30°-40°	2168.4	10.3
40°-50°	3054.2	14.6
50°-60°	4089.7	19.5
60°-70°	5154.8	24.6
70°-80°	3520.7	16.8
80°-90°	309.6	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°	20978.0	100.0
0°-180°	20978.0	100.0

Coefficient of Utilization



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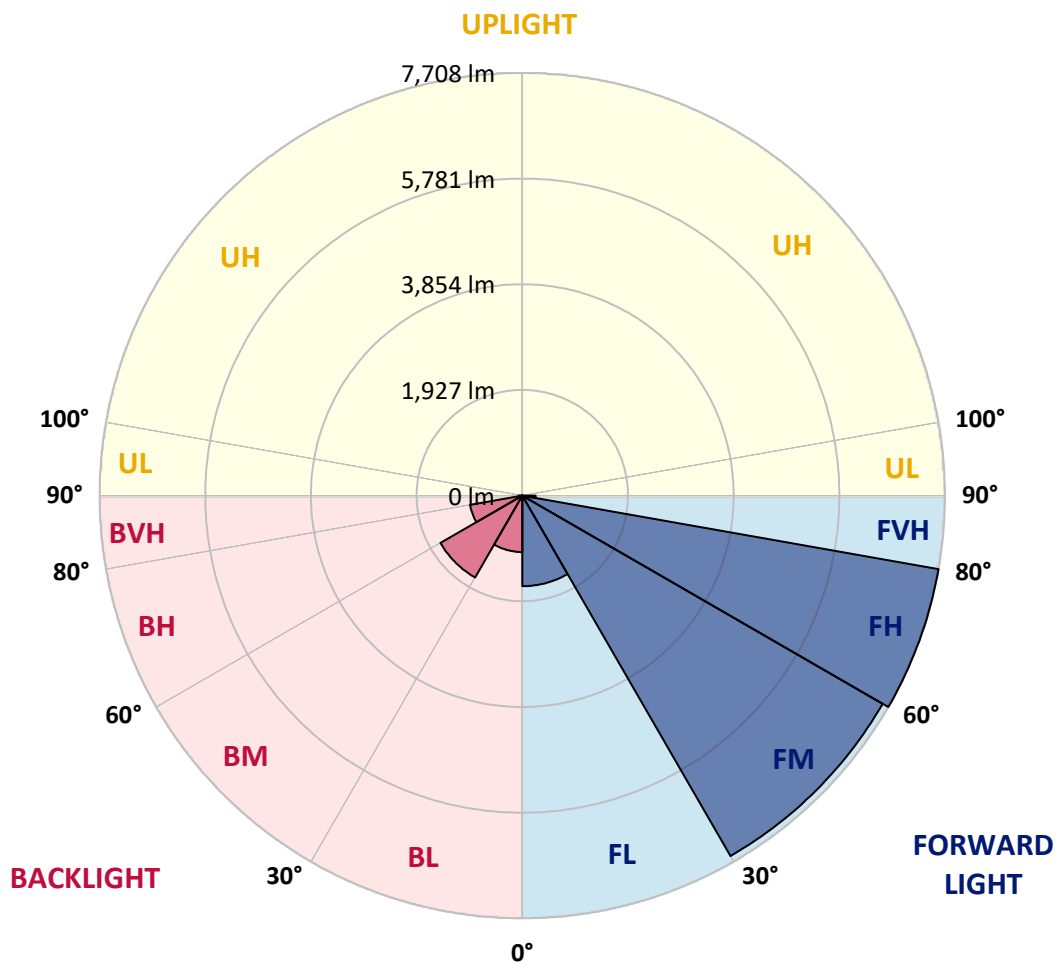
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1651.3	7.9			
FM	(30°-60°)	7589.1	36.2			
FH	(60°-80°)	7708.1	36.7			G4/12000
FVH	(80°-90°)	242.0	1.2			G3/500
BL	(0°-30°)	1029.4	4.9	B3/2500		
BM	(30°-60°)	1723.2	8.2	B2/2500		
BH	(60°-80°)	967.3	4.6	B2/1000		G2/1000
BVH	(80°-90°)	67.6	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°	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8
2.5°	3615.9	3632.9	3637.4	3648.7	3672.5	3691.8	3711.1	3708.8	3736.0	3747.3	3757.5
5°	3455.0	3459.5	3476.5	3499.2	3541.1	3594.3	3646.5	3647.6	3714.5	3767.7	3793.8
7.5°	3337.1	3351.8	3363.2	3387.0	3431.2	3489.0	3571.7	3578.5	3697.5	3802.8	3858.4
10°	3260.1	3277.1	3289.5	3319.0	3363.2	3427.8	3517.3	3529.8	3685.0	3858.4	3955.8
12.5°	3189.8	3206.8	3218.1	3256.7	3314.5	3393.8	3494.6	3509.4	3689.5	3923.0	4062.3
15°	3232.9	3246.5	3241.9	3253.3	3291.8	3382.4	3503.7	3518.4	3706.5	3985.3	4167.7
17.5°	3424.4	3435.7	3398.3	3355.2	3337.1	3404.0	3532.0	3547.9	3740.5	4049.9	4275.4
20°	3706.5	3737.1	3655.5	3559.2	3472.0	3481.0	3590.9	3607.9	3788.1	4114.5	4385.3
22.5°	4073.7	4096.3	3996.6	3838.0	3677.1	3594.3	3679.3	3689.5	3859.5	4198.3	4505.4
25°	4505.4	4519.0	4380.7	4176.8	3944.5	3788.1	3800.6	3818.7	3977.3	4293.5	4611.9
27.5°	4924.7	4967.7	4807.9	4558.7	4252.7	3992.1	3967.1	3978.5	4105.4	4346.8	4685.6
30°	5422.1	5418.7	5249.9	4960.9	4568.9	4214.2	4124.7	4122.4	4174.5	4372.8	4738.8
32.5°	5818.7	5865.2	5699.7	5384.7	4930.3	4444.2	4233.4	4228.9	4227.8	4418.1	4818.1
35°	6269.7	6276.5	6124.7	5807.4	5321.3	4733.2	4385.3	4362.6	4336.6	4515.6	4925.8
37.5°	6673.1	6704.8	6565.5	6209.6	5705.4	5033.4	4593.8	4579.0	4499.7	4684.4	5098.0
40°	6988.1	7011.9	6928.1	6589.3	6083.9	5357.5	4858.9	4831.7	4735.4	4960.9	5328.1
42.5°	7091.2	7140.0	7172.8	7006.3	6519.0	5741.7	5185.3	5151.3	5077.6	5380.2	5593.2
45°	7099.2	7176.2	7349.6	7357.5	6956.4	6201.7	5566.0	5542.2	5536.6	5917.3	5966.0
47.5°	7039.1	7117.3	7408.5	7566.0	7346.2	6666.3	6115.6	6078.2	6081.6	6581.3	6384.2
50°	6894.1	6987.0	7340.5	7699.7	7651.0	7149.0	6695.8	6683.3	6753.6	7339.4	6818.1
52.5°	6621.0	6733.2	7270.3	7783.6	7877.6	7564.9	7355.3	7320.1	7498.0	8162.1	7292.9
55°	5865.2	6034.0	7013.0	7830.0	8092.9	7962.6	7949.0	8012.5	8248.2	9059.5	7815.3
57.5°	5470.8	5597.7	6454.4	7838.0	8364.9	8425.0	8642.5	8658.4	9070.8	10012.5	8405.7
60°	5255.5	5367.7	6148.5	7785.9	8744.5	8997.2	9351.9	9408.5	9874.2	11044.8	9017.6
62.5°	5067.4	5163.8	5964.9	7605.7	9172.8	9845.9	10270.8	10298.0	10786.4	12184.7	9621.6
65°	4624.4	4734.3	5595.5	7425.5	9542.2	10906.5	11490.1	11458.4	11757.5	13168.3	10000.0
67.5°	4027.2	4166.6	4905.4	6803.4	9724.7	12065.8	12863.5	12823.8	12716.2	13813.1	10108.8
70°	3264.6	3339.4	4022.7	5728.1	8996.1	12674.3	13947.9	13906.0	13309.9	13898.1	9594.4
71°	2809.1	2925.8	3502.6	5087.8	8389.8	12488.4	14087.3	14076.0	13311.1	13663.5	9206.8
72.5°	2192.6	2264.0	2773.9	3942.2	7130.9	11432.3	13742.8	13785.9	13022.1	13011.9	8408.0
75°	1387.0	1418.7	1740.5	2320.7	3912.8	8096.3	11731.5	11848.2	11562.6	10650.5	6252.7
77.5°	805.7	846.5	1042.5	1367.7	1690.7	4394.3	8394.4	8521.3	8034.0	5864.0	2559.8
80°	469.1	514.4	686.7	794.3	776.2	1630.6	4274.2	4490.7	3478.8	1481.0	718.4
82.5°	260.6	291.2	482.7	483.9	413.6	532.6	1345.0	1407.4	992.6	597.2	293.5
85°	189.2	214.2	311.6	282.2	198.3	228.9	468.0	490.7	401.1	251.6	95.2
87.5°	66.9	95.2	171.1	136.0	54.4	47.6	134.8	109.9	102.0	70.3	21.5
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°	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8	3742.8
2.5°	3763.2	3765.4	3754.1	3733.7	3713.3	3687.3	3657.8	3635.1	3624.9	3623.8	3622.7
5°	3804.0	3809.6	3766.6	3703.1	3632.9	3546.8	3473.1	3389.2	3367.7	3333.7	3343.9
7.5°	3869.7	3866.3	3781.3	3646.5	3482.2	3299.7	3145.6	3056.1	2963.2	2937.1	2938.3
10°	3963.7	3942.2	3781.3	3530.9	3256.7	2985.8	2770.5	2634.6	2560.9	2499.7	2477.1
12.5°	4063.5	4009.1	3745.1	3368.8	2966.6	2634.6	2403.4	2219.8	2172.2	2122.4	2123.5
15°	4158.7	4068.0	3673.7	3141.1	2653.8	2259.5	2035.1	1925.2	1910.5	1916.2	1915.0
17.5°	4244.8	4109.9	3564.9	2887.3	2289.0	1937.7	1818.7	1826.6	1866.3	1894.6	1898.0
20°	4332.0	4134.9	3402.8	2547.3	1944.5	1742.8	1747.3	1809.6	1869.7	1908.2	1913.9
22.5°	4414.7	4146.2	3212.5	2218.7	1695.2	1660.1	1726.9	1793.8	1852.7	1890.1	1895.8
25°	4469.1	4120.1	2942.8	1875.4	1572.8	1630.6	1700.9	1757.5	1807.4	1845.9	1855.0
27.5°	4483.9	4036.3	2608.5	1597.7	1516.2	1602.3	1666.9	1708.8	1747.3	1783.6	1790.4
30°	4475.9	3912.8	2241.4	1434.6	1483.3	1569.4	1619.3	1649.9	1696.3	1724.7	1730.3
32.5°	4463.5	3768.8	1858.4	1347.3	1456.1	1538.8	1568.3	1595.5	1594.3	1583.0	1590.9
35°	4468.0	3596.6	1547.9	1295.2	1432.3	1516.2	1541.1	1507.1	1409.6	1405.1	1400.6
37.5°	4491.8	3426.6	1322.4	1258.9	1419.8	1512.8	1526.3	1370.0	1283.9	1244.2	1234.0
40°	4553.0	3228.3	1173.9	1231.7	1418.7	1538.8	1459.5	1300.9	1135.4	1058.4	1052.7
42.5°	4634.6	3033.4	1083.3	1214.7	1432.3	1578.5	1432.3	1203.4	1023.2	977.9	971.1
45°	4755.8	2810.2	1033.4	1206.8	1452.7	1593.2	1423.2	1132.0	977.9	941.6	941.6
47.5°	4892.9	2597.2	1006.2	1201.1	1478.8	1583.0	1342.8	1109.4	956.4	960.9	982.4
50°	5028.9	2412.5	985.8	1188.7	1501.4	1577.3	1309.9	1108.2	962.0	1019.8	1058.4
52.5°	5186.4	2282.2	960.9	1168.3	1501.4	1541.1	1299.7	1130.9	977.9	994.9	1011.9
55°	5376.8	2241.4	929.2	1124.1	1474.2	1450.4	1294.1	1163.7	989.2	949.6	956.4
57.5°	5628.3	2307.1	898.6	1068.6	1411.9	1356.4	1291.8	1172.8	963.2	930.3	923.5
60°	5920.7	2437.4	889.5	1011.9	1326.9	1275.9	1278.2	1146.7	926.9	892.9	898.6
62.5°	6125.8	2515.6	883.9	968.8	1234.0	1187.5	1245.3	1115.0	911.1	881.6	887.3
65°	6125.8	2420.4	831.7	903.1	1113.9	1081.0	1205.7	1075.4	890.7	856.7	851.0
67.5°	5893.5	2142.8	752.4	804.5	981.3	959.8	1150.1	1027.8	860.1	834.0	820.4
70°	5288.4	1624.9	652.7	689.0	813.6	832.9	1078.8	963.2	809.1	777.3	756.9
71°	5022.1	1415.3	610.8	630.0	749.0	777.3	1044.8	936.0	786.4	741.1	704.8
72.5°	4508.8	1192.1	547.3	555.2	640.2	691.2	973.4	883.9	743.3	678.8	638.0
75°	3425.5	870.3	440.8	436.3	473.7	548.4	823.8	787.5	651.6	564.3	540.5
77.5°	1479.9	473.7	329.7	333.1	321.8	415.9	648.2	676.5	558.6	458.9	437.4
80°	448.7	273.1	225.5	230.0	215.3	278.8	456.7	530.3	448.7	356.9	327.5
82.5°	230.0	163.2	154.1	151.8	137.1	157.5	276.5	362.6	320.7	223.2	197.2
85°	99.7	87.3	75.9	73.7	64.6	56.7	98.6	181.3	170.0	124.6	119.0
87.5°	24.9	22.7	14.7	13.6	7.9	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)