

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: P453955

Luminaire Tested: **GALN-SA5A-730-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453955  
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-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 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: 21344 lumens  
Efficiency: N/A  
Efficacy: 138.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

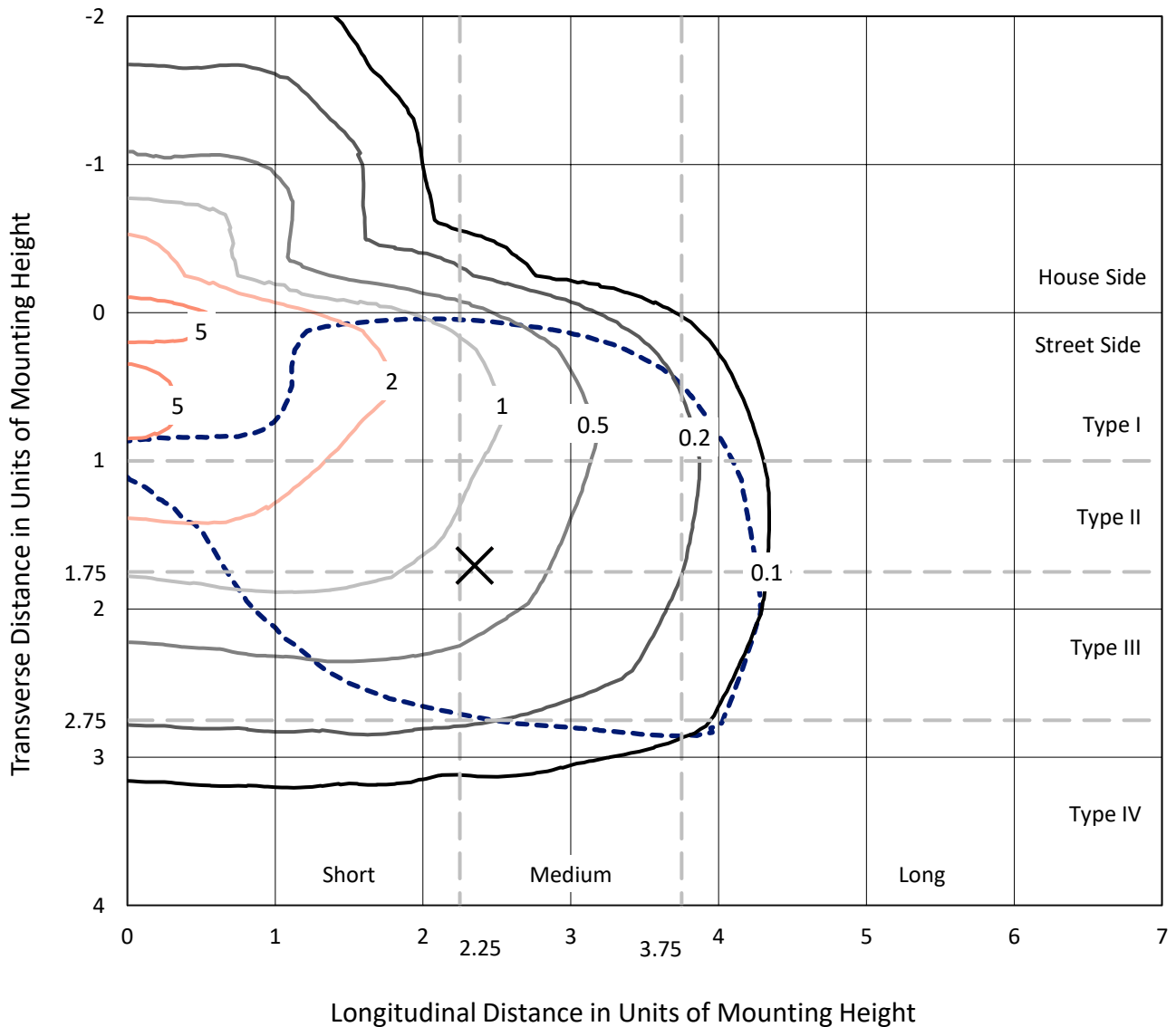
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

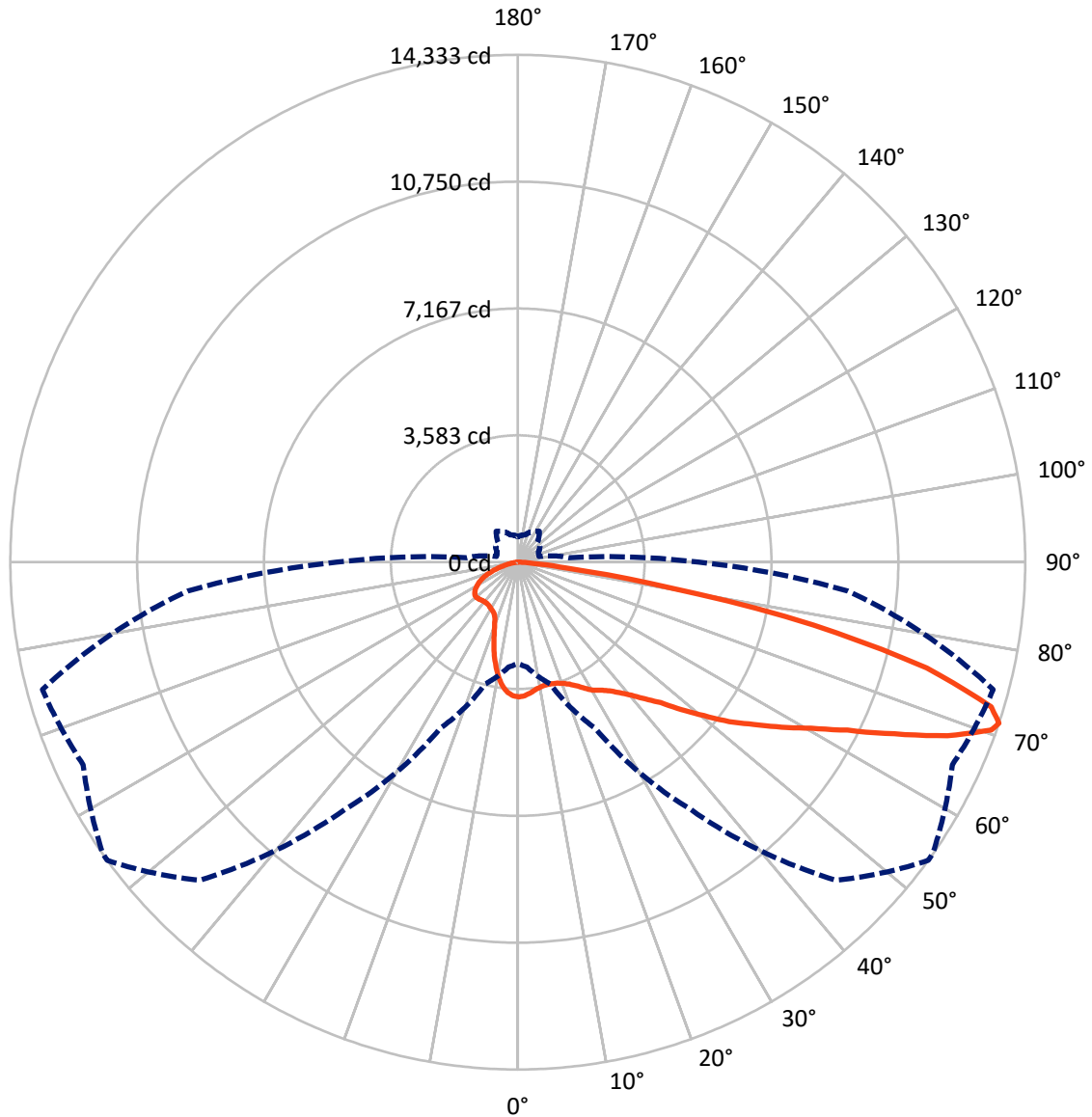
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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
<b>House Side</b>	Lumens	3853.5	0.0	3853.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	17490.5	0.0	17490.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	21344.0	0.0	21344.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.4	1.6
10°-20°	896.1	4.2
20°-30°	1492.0	7.0
30°-40°	2206.2	10.3
40°-50°	3107.5	14.6
50°-60°	4161.1	19.5
60°-70°	5244.7	24.6
70°-80°	3582.1	16.8
80°-90°	315.0	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°	21344.0	100.0
0°-180°	21344.0	100.0

**Coefficient of Utilization**



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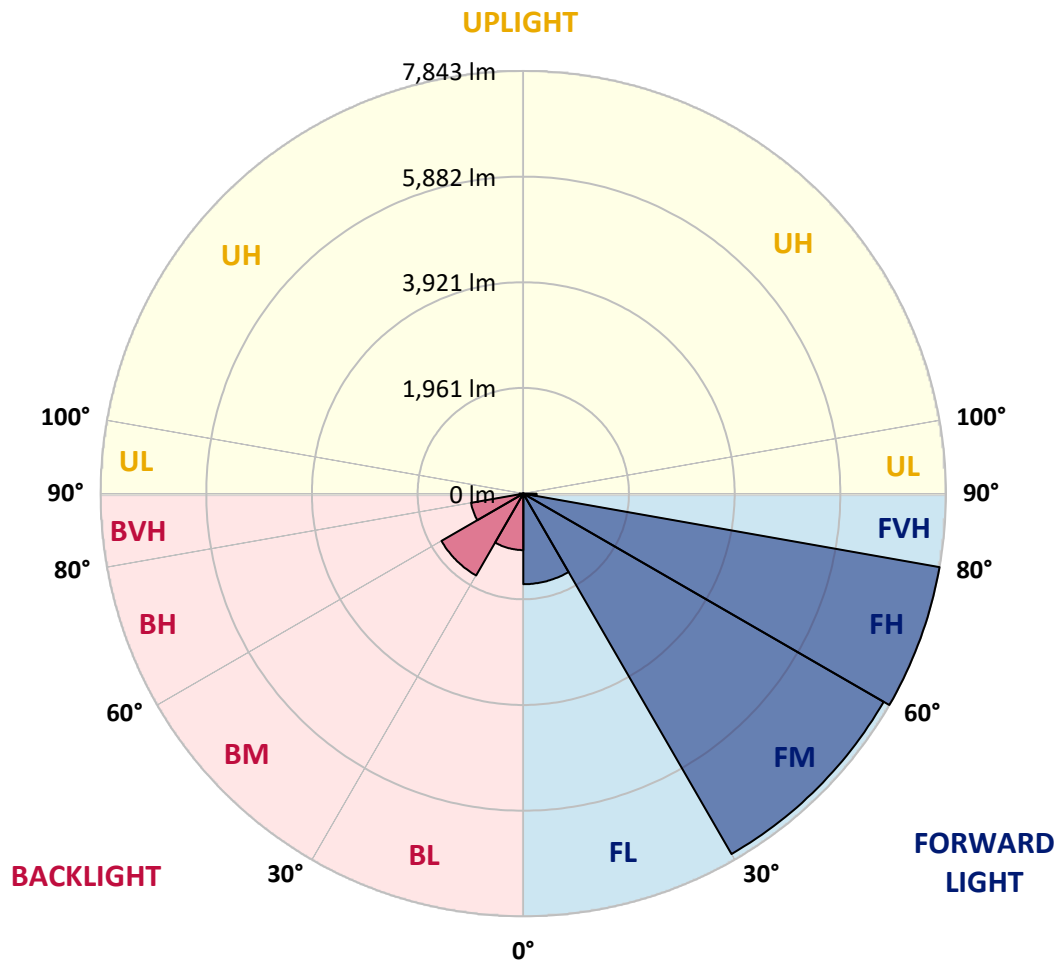
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1680.1	7.9			
FM	(30°-60°)	7721.5	36.2			
FH	(60°-80°)	7842.6	36.7			G4/12000
FVH	(80°-90°)	246.2	1.2			G3/500
BL	(0°-30°)	1047.3	4.9	B3/2500		
BM	(30°-60°)	1753.2	8.2	B2/2500		
BH	(60°-80°)	984.2	4.6	B2/1000		G2/1000
BVH	(80°-90°)	68.8	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°	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1
2.5°	3679.0	3696.3	3700.9	3712.4	3736.6	3756.2	3775.8	3773.5	3801.2	3812.7	3823.1
5°	3515.2	3519.9	3537.2	3560.2	3602.9	3657.1	3710.1	3711.2	3779.3	3833.4	3860.0
7.5°	3395.3	3410.3	3421.9	3446.1	3491.0	3549.8	3634.0	3640.9	3762.0	3869.2	3925.7
10°	3316.9	3334.2	3346.9	3376.9	3421.9	3487.6	3578.7	3591.3	3749.3	3925.7	4024.8
12.5°	3245.5	3262.8	3274.3	3313.5	3372.3	3453.0	3555.6	3570.6	3753.9	3991.4	4133.2
15°	3289.3	3303.1	3298.5	3310.0	3349.2	3441.5	3564.8	3579.8	3771.2	4054.8	4240.4
17.5°	3484.1	3495.6	3457.6	3413.8	3395.3	3463.4	3593.6	3609.8	3805.8	4120.5	4350.0
20°	3771.2	3802.3	3719.3	3621.3	3532.5	3541.8	3653.6	3670.9	3854.2	4186.2	4461.8
22.5°	4144.7	4167.8	4066.3	3904.9	3741.2	3657.1	3743.5	3753.9	3926.8	4271.6	4584.0
25°	4584.0	4597.8	4457.2	4249.7	4013.3	3854.2	3866.9	3885.3	4046.7	4368.4	4692.4
27.5°	5010.6	5054.4	4891.8	4638.2	4326.9	4061.7	4036.4	4047.9	4177.0	4422.6	4767.3
30°	5516.7	5513.3	5341.5	5047.5	4648.6	4287.7	4196.6	4194.3	4247.3	4449.1	4821.5
32.5°	5920.2	5967.5	5799.2	5478.7	5016.3	4521.7	4307.3	4302.7	4301.5	4495.2	4902.2
35°	6379.1	6386.0	6231.5	5908.7	5414.1	4815.7	4461.8	4438.7	4412.2	4594.4	5011.7
37.5°	6789.5	6821.8	6680.0	6318.0	5804.9	5121.3	4673.9	4658.9	4578.2	4766.2	5187.0
40°	7110.0	7134.3	7048.9	6704.2	6190.0	5451.0	4943.7	4916.0	4818.0	5047.5	5421.0
42.5°	7215.0	7264.5	7298.0	7128.5	6632.7	5841.8	5275.7	5241.2	5166.2	5474.1	5690.8
45°	7223.0	7301.4	7477.8	7485.9	7077.8	6309.9	5663.1	5638.9	5633.2	6020.5	6070.1
47.5°	7161.9	7241.5	7537.8	7698.0	7474.4	6782.6	6222.3	6184.2	6187.7	6696.1	6495.5
50°	7014.3	7108.9	7468.6	7834.1	7784.5	7273.8	6812.6	6799.9	6871.4	7467.4	6937.1
52.5°	6736.5	6850.6	7397.1	7919.4	8015.1	7696.9	7483.6	7447.8	7628.9	8304.5	7420.2
55°	5967.5	6139.3	7135.4	7966.7	8234.1	8101.5	8087.7	8152.3	8392.1	9217.6	7951.7
57.5°	5566.3	5695.4	6567.0	7974.7	8510.8	8571.9	8793.3	8809.4	9229.1	10187.2	8552.3
60°	5347.2	5461.4	6255.7	7921.7	8897.1	9154.2	9515.0	9572.7	10046.5	11237.5	9174.9
62.5°	5155.8	5253.8	6069.0	7738.4	9332.9	10017.7	10450.0	10477.7	10974.6	12397.3	9789.4
65°	4705.1	4816.9	5693.1	7555.1	9708.7	11096.8	11690.6	11658.3	11962.7	13398.1	10174.5
67.5°	4097.5	4239.3	4991.0	6922.1	9894.3	12276.3	13087.9	13047.6	12938.0	14054.1	10285.2
70°	3321.6	3397.6	4092.9	5828.0	9153.0	12895.4	14191.3	14148.6	13542.2	14140.5	9761.8
71°	2858.1	2976.8	3563.7	5176.6	8536.2	12706.3	14333.1	14321.5	13543.3	13901.9	9367.5
72.5°	2230.9	2303.5	2822.3	4011.0	7255.3	11631.8	13982.6	14026.4	13249.3	13238.9	8554.6
75°	1411.2	1443.5	1770.9	2361.2	3981.0	8237.6	11936.2	12054.9	11764.4	10836.3	6361.8
77.5°	819.7	861.2	1060.7	1391.6	1720.2	4471.0	8540.8	8669.9	8174.2	5966.3	2604.4
80°	477.3	523.4	698.7	808.2	789.7	1659.0	4348.8	4569.0	3539.5	1506.9	730.9
82.5°	265.2	296.3	491.1	492.3	420.8	541.9	1368.5	1431.9	1010.0	607.6	298.6
85°	192.5	217.9	317.1	287.1	201.8	232.9	476.2	499.2	408.1	255.9	96.8
87.5°	68.0	96.8	174.1	138.4	55.3	48.4	137.2	111.8	103.8	71.5	21.9
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°	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1	3808.1
2.5°	3828.8	3831.1	3819.6	3798.9	3778.1	3751.6	3721.6	3698.6	3688.2	3687.0	3685.9
5°	3870.3	3876.1	3832.3	3767.7	3696.3	3608.6	3533.7	3448.4	3426.5	3391.9	3402.3
7.5°	3937.2	3933.8	3847.3	3710.1	3542.9	3357.3	3200.5	3109.4	3014.9	2988.4	2989.5
10°	4032.9	4011.0	3847.3	3592.5	3313.5	3037.9	2818.9	2680.5	2605.6	2543.3	2520.3
12.5°	4134.4	4079.0	3810.4	3427.6	3018.3	2680.5	2445.3	2258.6	2210.1	2159.4	2160.6
15°	4231.2	4139.0	3737.8	3195.9	2700.1	2298.9	2070.6	1958.8	1943.8	1949.6	1948.4
17.5°	4318.8	4181.6	3627.1	2937.6	2328.9	1971.5	1850.4	1858.5	1898.9	1927.7	1931.1
20°	4407.6	4207.0	3462.2	2591.8	1978.4	1773.2	1777.8	1841.2	1902.3	1941.5	1947.3
22.5°	4491.8	4218.5	3268.5	2257.4	1724.8	1689.0	1757.0	1825.1	1885.0	1923.1	1928.8
25°	4547.1	4192.0	2994.1	1908.1	1600.2	1659.0	1730.5	1788.2	1838.9	1878.1	1887.3
27.5°	4562.1	4106.7	2654.0	1625.6	1542.6	1630.2	1695.9	1738.6	1777.8	1814.7	1821.6
30°	4554.0	3981.0	2280.5	1459.6	1509.2	1596.8	1647.5	1678.6	1725.9	1754.7	1760.5
32.5°	4541.3	3834.6	1890.8	1370.8	1481.5	1565.7	1595.6	1623.3	1622.2	1610.6	1618.7
35°	4546.0	3659.4	1574.9	1317.8	1457.3	1542.6	1568.0	1533.4	1434.2	1429.6	1425.0
37.5°	4570.2	3486.4	1345.5	1280.9	1444.6	1539.1	1553.0	1393.9	1306.3	1265.9	1255.5
40°	4632.4	3284.7	1194.4	1253.2	1443.5	1565.7	1485.0	1323.5	1155.2	1076.8	1071.1
42.5°	4715.4	3086.4	1102.2	1235.9	1457.3	1606.0	1457.3	1224.4	1041.1	995.0	988.1
45°	4838.8	2859.2	1051.5	1227.9	1478.0	1621.0	1448.1	1151.8	995.0	958.1	958.1
47.5°	4978.3	2642.5	1023.8	1222.1	1504.6	1610.6	1366.2	1128.7	973.1	977.7	999.6
50°	5116.6	2454.6	1003.0	1209.4	1527.6	1604.9	1332.8	1127.6	978.8	1037.6	1076.8
52.5°	5276.9	2322.0	977.7	1188.7	1527.6	1568.0	1322.4	1150.6	995.0	1012.3	1029.6
55°	5470.6	2280.5	945.4	1143.7	1499.9	1475.7	1316.6	1184.0	1006.5	966.1	973.1
57.5°	5726.5	2347.3	914.3	1087.2	1436.5	1380.0	1314.3	1193.3	980.0	946.5	939.6
60°	6024.0	2479.9	905.0	1029.6	1350.1	1298.2	1300.5	1166.8	943.1	908.5	914.3
62.5°	6232.7	2559.5	899.3	985.7	1255.5	1208.3	1267.1	1134.5	926.9	897.0	902.7
65°	6232.7	2462.6	846.2	918.9	1133.3	1099.9	1226.7	1094.1	906.2	871.6	865.8
67.5°	5996.3	2180.2	765.5	818.6	998.4	976.5	1170.2	1045.7	875.1	848.5	834.7
70°	5380.7	1653.3	664.1	701.0	827.8	847.4	1097.6	980.0	823.2	790.9	770.1
71°	5109.7	1440.0	621.4	641.0	762.1	790.9	1063.0	952.3	800.1	754.0	717.1
72.5°	4587.5	1212.9	556.9	564.9	651.4	703.3	990.4	899.3	756.3	690.6	649.1
75°	3485.3	885.4	448.5	443.9	481.9	558.0	838.2	801.3	662.9	574.2	549.9
77.5°	1505.7	481.9	335.5	339.0	327.4	423.1	659.5	688.3	568.4	466.9	445.0
80°	456.6	277.9	229.4	234.0	219.1	283.6	464.6	539.6	456.6	363.2	333.2
82.5°	234.0	166.0	156.8	154.5	139.5	160.3	281.3	368.9	326.3	227.1	200.6
85°	101.5	88.8	77.2	74.9	65.7	57.6	100.3	184.5	172.9	126.8	121.1
87.5°	25.4	23.1	15.0	13.8	8.1	1.2	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)