

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: P529877

Luminaire Tested: **GALN-SA5A-740-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-740-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13509 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

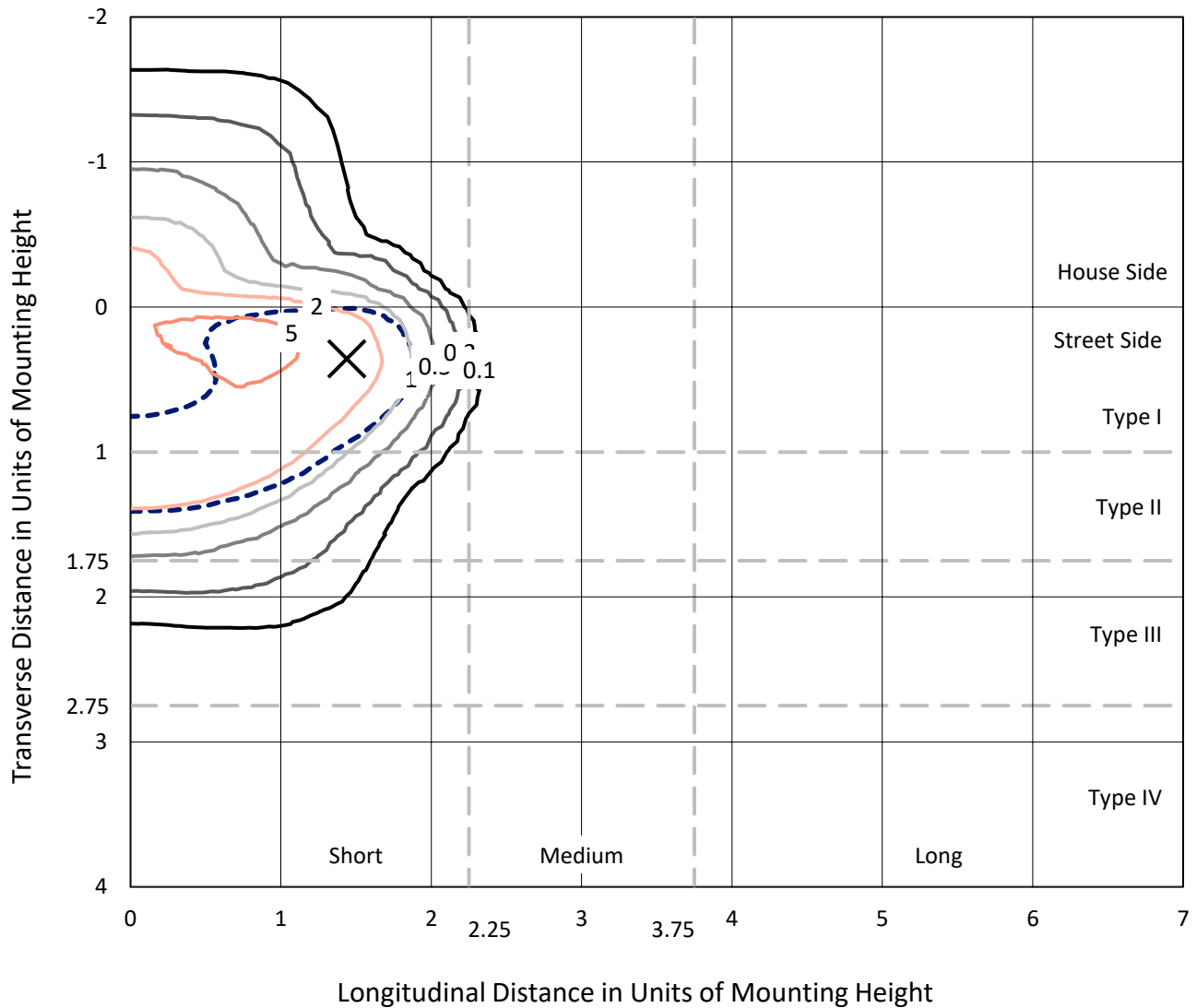
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

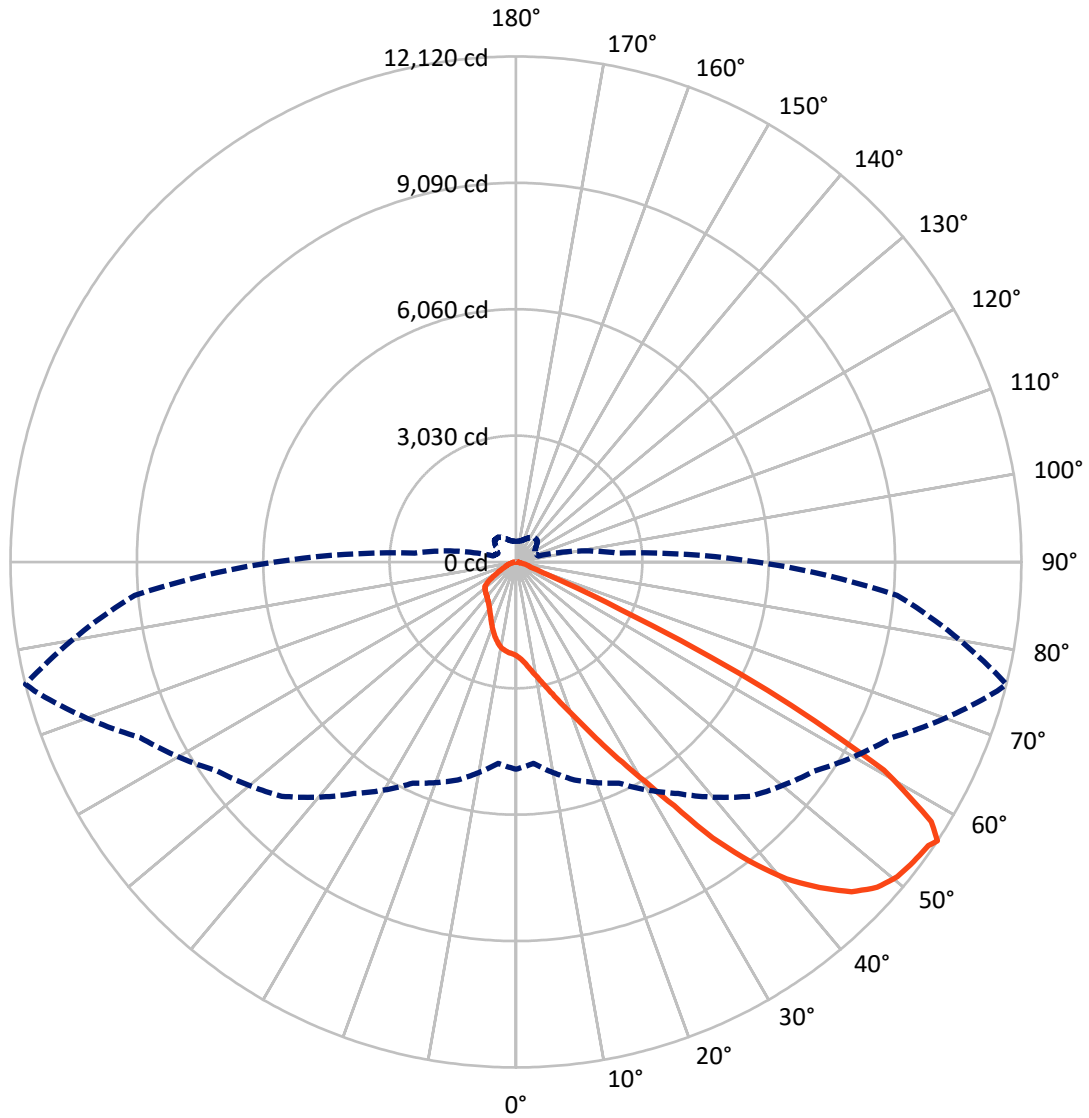
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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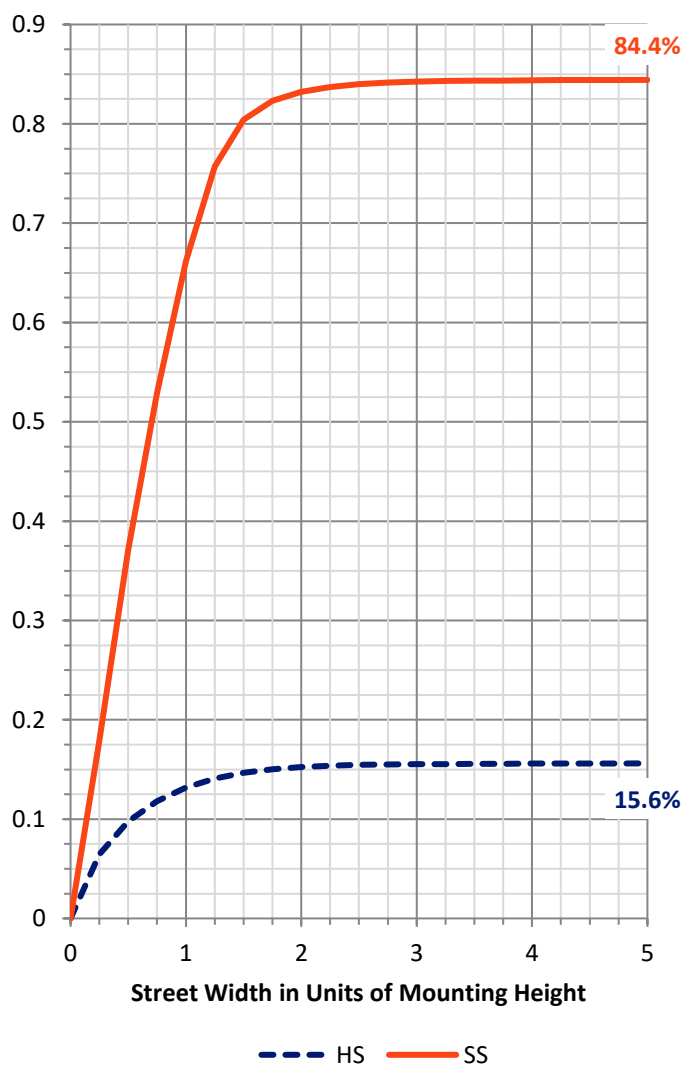
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2122.2	0.0	2122.2
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	11386.8	0.0	11386.8
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	13509.0	0.0	13509.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.5	1.7
10°-20°	727.7	5.4
20°-30°	1319.5	9.8
30°-40°	2275.6	16.8
40°-50°	3696.8	27.4
50°-60°	3896.5	28.8
60°-70°	1190.6	8.8
70°-80°	152.6	1.1
80°-90°	23.2	0.2
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°	13509.0	100.0
0°-180°	13509.0	100.0

**Coefficient of Utilization**



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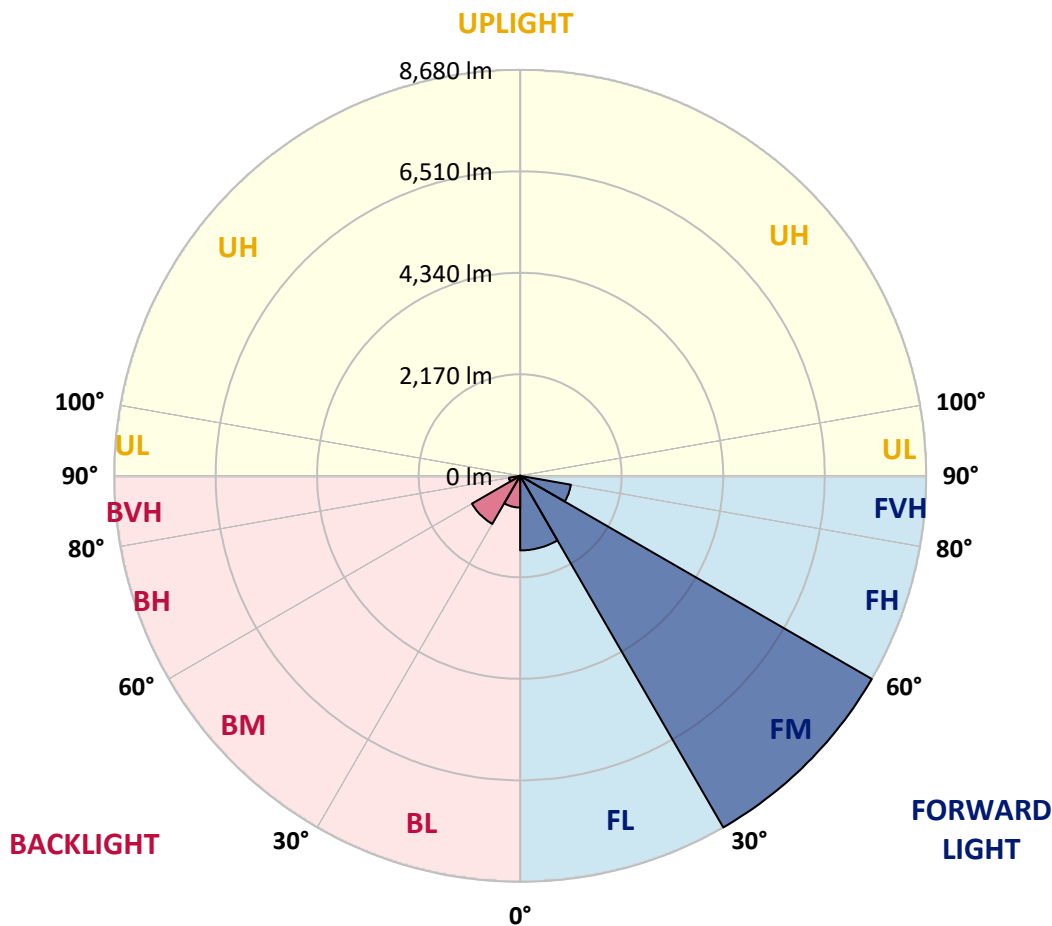
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1594.9	11.8			
FM (30°-60°)	8679.5	64.2			
FH (60°-80°)	1101.1	8.2			G1/1800
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	678.9	5.0	B2/1000		
BM (30°-60°)	1189.4	8.8	B2/2500		
BH (60°-80°)	242.1	1.8	B1/500		G1/500
BVH (80°-90°)	11.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6
2.5°	2589.7	2530.0	2532.5	2527.5	2520.0	2492.6	2410.5	2398.0	2343.2	2328.3	2278.5
5°	2901.0	2848.7	2878.6	2833.8	2791.4	2766.5	2632.1	2569.8	2482.7	2450.3	2380.6
7.5°	3095.2	3070.3	3060.4	3062.9	3023.0	2960.8	2901.0	2764.1	2647.0	2622.1	2475.2
10°	3189.9	3174.9	3189.9	3182.4	3199.8	3207.3	3102.7	3020.5	2848.7	2806.4	2577.3
12.5°	3212.3	3242.2	3254.6	3287.0	3329.3	3401.5	3394.1	3282.0	3052.9	3025.5	2734.2
15°	3267.1	3292.0	3279.5	3331.8	3411.5	3533.5	3598.2	3580.8	3334.3	3284.5	2915.9
17.5°	3316.9	3272.0	3314.4	3419.0	3498.6	3685.4	3842.3	3914.5	3640.6	3583.3	3082.8
20°	3384.1	3371.6	3364.2	3416.5	3558.4	3807.4	4118.7	4250.7	3984.2	3924.5	3321.8
22.5°	3588.3	3590.8	3585.8	3508.6	3610.7	3892.1	4360.2	4686.4	4395.1	4345.3	3593.3
25°	3857.2	3824.8	3799.9	3737.7	3725.2	3969.3	4604.3	5219.3	4888.1	4853.3	3887.1
27.5°	4141.1	4141.1	4066.4	4009.1	3929.4	4161.0	4828.4	5737.3	5483.3	5436.0	4143.6
30°	4449.9	4467.3	4457.3	4335.3	4285.5	4370.2	5057.5	6399.7	6165.6	6105.8	4566.9
32.5°	4905.6	4868.2	4910.5	4808.5	4661.5	4736.2	5418.5	6992.3	7052.1	6967.4	5122.2
35°	5508.2	5485.8	5458.4	5291.5	5117.2	5177.0	5929.0	7721.9	8165.2	8122.8	5682.5
37.5°	6048.5	6036.1	6013.7	5899.1	5697.4	5769.6	6509.2	8481.4	9250.9	9111.4	6474.4
40°	6616.3	6683.5	6611.3	6509.2	6324.9	6484.3	7191.5	8932.1	10164.7	9995.4	7079.5
42.5°	7385.7	7333.5	7365.8	7179.1	7079.5	7253.8	7876.3	9382.8	10874.4	10672.7	7721.9
45°	8205.0	8207.5	8120.3	8060.6	7801.6	7990.8	8297.1	9631.8	11439.7	11282.8	8207.5
47.5°	8730.4	8727.9	8822.6	8917.2	8650.7	8464.0	8583.5	9868.4	11731.0	11658.8	8384.3
50°	8648.2	8673.1	8795.2	9148.8	9288.2	9036.7	8852.4	9798.7	11863.0	11855.5	8536.2
52.5°	7522.7	7604.9	7809.1	8319.5	9021.8	9333.0	9133.8	9928.2	11927.8	11940.2	8762.8
55°	5727.3	5772.1	6160.6	6780.6	7557.6	8623.3	9021.8	10030.3	11977.6	12000.0	9036.7
56°	4967.8	4848.3	5408.6	5849.3	6778.2	7943.5	8737.9	9950.6	11947.7	12119.5	9173.7
57.5°	3750.1	3670.5	4123.7	4674.0	5567.9	6798.1	7856.4	9574.6	11746.0	11743.5	8976.9
60°	2281.0	2201.3	2549.9	2873.6	3374.1	4185.9	5309.0	7624.8	9930.7	10139.8	7268.7
62.5°	1357.1	1406.9	1750.6	1947.3	2109.1	2193.8	2746.6	4532.0	6626.3	6775.7	4509.6
65°	903.9	921.4	1180.3	1504.0	1576.3	1255.0	1118.1	1835.2	2873.6	2781.5	1860.1
67.5°	557.8	597.6	791.9	1130.5	1252.5	916.4	530.4	684.8	791.9	791.9	537.9
70°	338.7	358.6	527.9	769.5	859.1	590.2	386.0	386.0	381.0	373.5	321.2
72.5°	161.9	174.3	268.9	395.9	403.4	311.3	298.8	326.2	318.7	316.2	266.4
75°	69.7	74.7	94.6	124.5	141.9	132.0	181.8	234.1	241.5	234.1	191.7
77.5°	22.4	24.9	34.9	44.8	47.3	57.3	77.2	97.1	112.1	104.6	94.6
80°	2.5	5.0	10.0	22.4	34.9	44.8	57.3	64.7	72.2	72.2	67.2
82.5°	2.5	2.5	10.0	19.9	32.4	42.3	54.8	62.3	72.2	74.7	69.7
85°	0.0	2.5	7.5	17.4	27.4	27.4	24.9	24.9	17.4	17.4	17.4
87.5°	0.0	0.0	2.5	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0
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°	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6	2248.6
2.5°	2268.5	2263.5	2196.3	2154.0	2131.6	2086.7	2059.3	2039.4	2024.5	2007.1	2009.5
5°	2298.4	2281.0	2168.9	2091.7	1999.6	1949.8	1907.4	1872.6	1850.2	1845.2	1835.2
7.5°	2383.1	2290.9	2121.6	1982.1	1865.1	1815.3	1778.0	1755.5	1765.5	1743.1	1760.5
10°	2447.8	2310.8	2064.3	1862.6	1745.6	1708.2	1688.3	1705.7	1730.6	1720.7	1708.2
12.5°	2527.5	2330.8	1972.2	1748.1	1638.5	1611.1	1646.0	1678.4	1728.2	1748.1	1723.2
15°	2617.1	2353.2	1855.2	1616.1	1546.4	1568.8	1628.5	1685.8	1735.6	1760.5	1775.5
17.5°	2726.7	2345.7	1740.6	1511.5	1459.2	1524.0	1596.2	1648.5	1723.2	1760.5	1750.6
20°	2828.8	2320.8	1613.6	1406.9	1409.4	1469.2	1528.9	1613.6	1653.5	1703.3	1685.8
22.5°	2925.9	2276.0	1481.6	1334.7	1334.7	1426.8	1456.7	1511.5	1546.4	1571.3	1568.8
25°	3062.9	2191.3	1372.1	1265.0	1294.9	1354.6	1379.5	1397.0	1382.0	1401.9	1404.4
27.5°	3160.0	2104.2	1282.4	1202.7	1257.5	1302.3	1294.9	1284.9	1250.0	1222.7	1240.1
30°	3264.6	2002.1	1205.2	1160.4	1190.3	1230.1	1200.2	1170.4	1115.6	1070.8	1073.2
32.5°	3414.0	1954.8	1138.0	1110.6	1150.4	1155.4	1123.1	1078.2	1023.4	981.1	978.6
35°	3692.9	1924.9	1080.7	1078.2	1085.7	1088.2	1055.8	1001.0	978.6	943.8	956.2
37.5°	3971.8	1909.9	1040.9	1030.9	1028.4	1030.9	993.6	941.3	983.6	981.1	986.1
40°	4327.9	1977.2	983.6	971.2	973.6	973.6	926.3	911.4	986.1	993.6	996.1
42.5°	4688.9	2061.8	946.3	906.4	916.4	916.4	891.5	874.0	926.3	876.5	869.1
45°	5002.7	2186.3	906.4	841.7	866.6	879.0	871.5	841.7	809.3	724.6	724.6
47.5°	5104.8	2295.9	859.1	779.4	799.3	854.1	831.7	769.5	712.2	642.5	637.5
50°	5284.1	2415.4	821.7	707.2	749.5	816.8	794.4	732.1	667.4	617.6	620.0
52.5°	5468.3	2552.4	752.0	622.5	674.8	786.9	786.9	717.2	617.6	582.7	577.7
55°	5744.7	2547.4	627.5	510.5	602.6	742.1	754.5	642.5	552.8	525.4	525.4
56°	5784.6	2432.9	565.3	478.1	570.2	729.6	732.1	622.5	527.9	498.0	498.0
57.5°	5485.8	2196.3	495.5	438.3	530.4	707.2	709.7	605.1	508.0	465.7	460.7
60°	4220.8	1486.6	413.4	391.0	480.6	637.5	649.9	550.3	445.7	413.4	410.9
62.5°	2383.1	824.2	363.6	353.6	413.4	542.8	580.2	480.6	378.5	361.1	366.1
65°	1088.2	453.2	306.3	286.4	333.7	418.3	468.1	395.9	311.3	291.3	291.3
67.5°	398.4	308.8	261.5	226.6	234.1	271.4	303.8	256.5	206.7	176.8	184.3
70°	283.9	259.0	229.1	196.7	181.8	176.8	174.3	144.4	102.1	79.7	84.7
72.5°	229.1	214.2	191.7	166.8	141.9	119.5	102.1	74.7	47.3	32.4	29.9
75°	164.3	156.9	139.4	119.5	99.6	84.7	69.7	47.3	24.9	12.5	12.5
77.5°	84.7	84.7	82.2	74.7	62.3	49.8	39.8	27.4	14.9	5.0	5.0
80°	64.7	69.7	72.2	64.7	57.3	44.8	32.4	19.9	10.0	2.5	2.5
82.5°	62.3	72.2	77.2	67.2	57.3	42.3	32.4	19.9	10.0	2.5	2.5
85°	14.9	14.9	22.4	24.9	32.4	34.9	27.4	17.4	7.5	2.5	2.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	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)