

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: P953443

Luminaire Tested: **GALN-SB7A-730-U-AFL**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953443  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7A-730-U-AFL  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

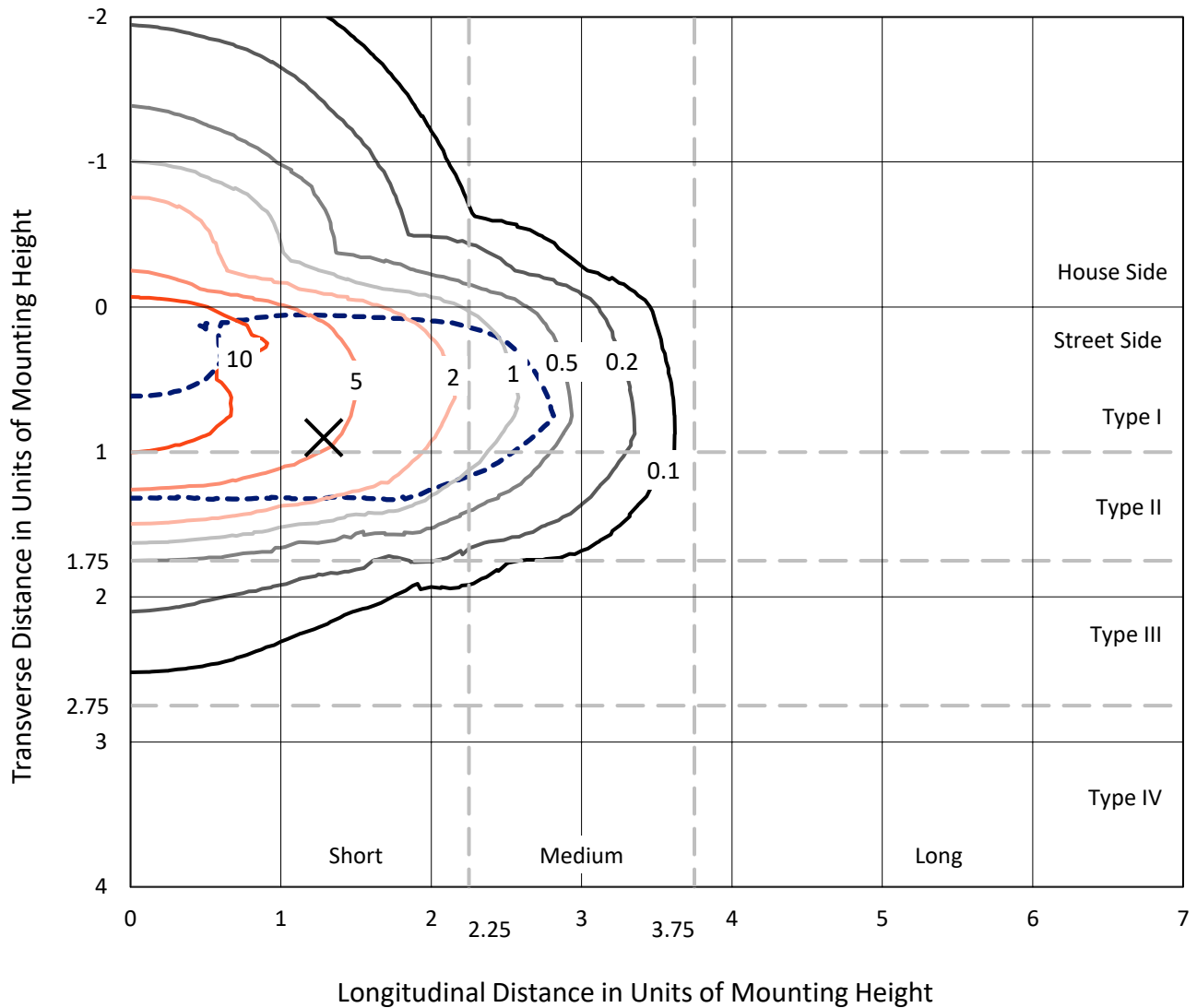
Lumens per Lamp: N/A  
Luminaire Lumens: 32444 lumens  
Efficiency: N/A  
Efficacy: 163.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 199.1  
Input Voltage (V): NR  
Input Current (Ain): 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



REPORT NUMBER: P953443  
 CATALOG NUMBER: GALN-SB7A-730-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

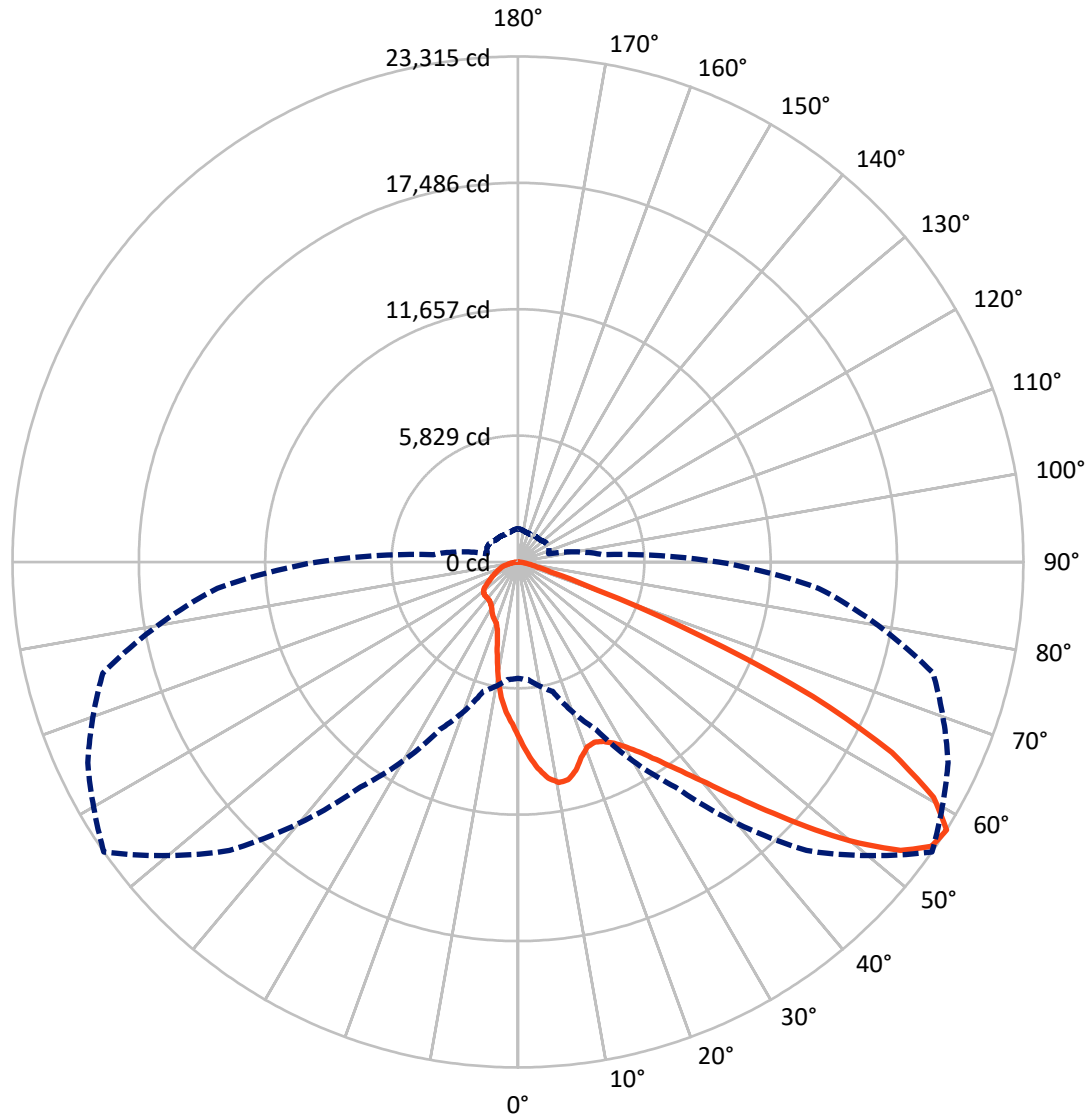
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P953443  
CATALOG NUMBER: GALN-SB7A-730-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P953443

CATALOG NUMBER: GALN-SB7A-730-U-AFL

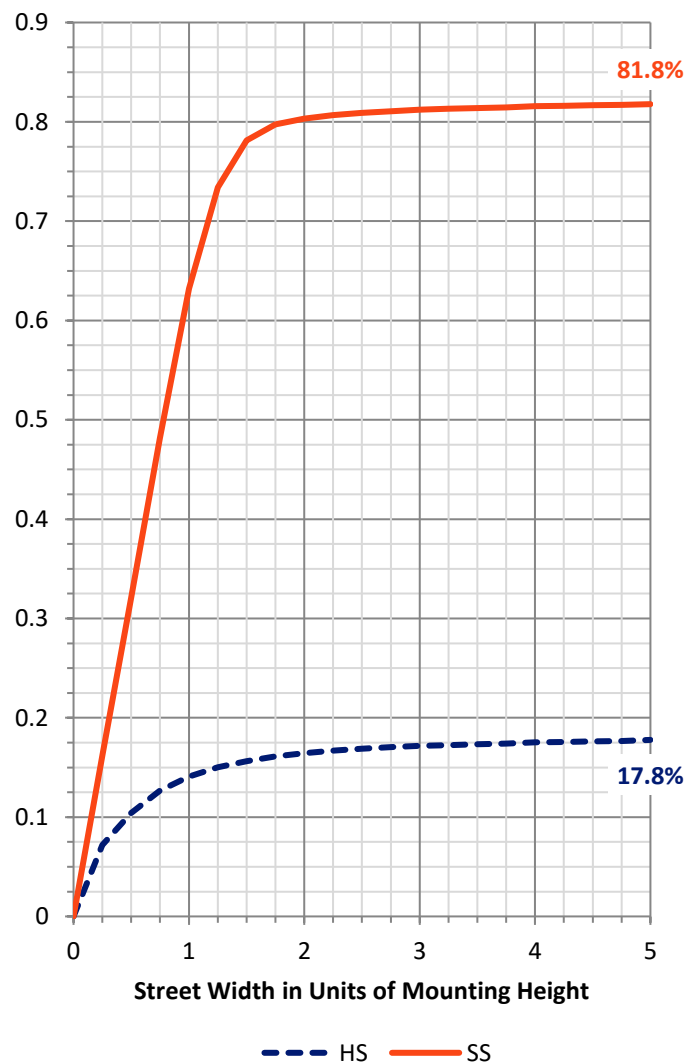
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5870.6	0.0	5870.6
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	26573.4	0.0	26573.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	32444.0	0.0	32444.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	754.4	2.3
10°-20°	1904.0	5.9
20°-30°	3038.3	9.4
30°-40°	4810.4	14.8
40°-50°	7362.8	22.7
50°-60°	7886.3	24.3
60°-70°	4961.3	15.3
70°-80°	1467.1	4.5
80°-90°	259.4	0.8
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°	32444.0	100.0
0°-180°	32444.0	100.0

**Coefficient of Utilization**



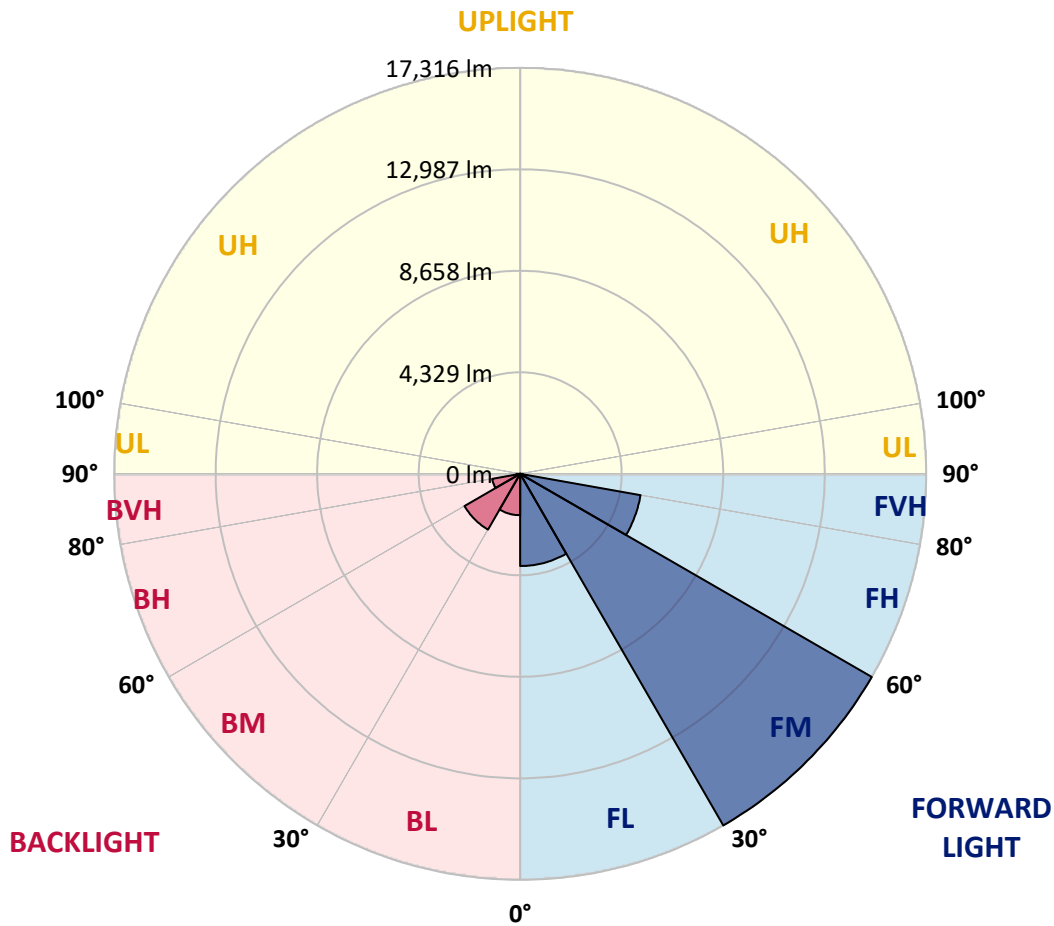
REPORT NUMBER: P953443  
 CATALOG NUMBER: GALN-SB7A-730-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3932.2	12.1			
FM (30°-60°)	17315.6	53.4			
FH (60°-80°)	5216.0	16.1			G3/7500
FVH (80°-90°)	109.6	0.3			G2/225
BL (0°-30°)	1764.5	5.4	B3/2500		
BM (30°-60°)	2743.9	8.5	B3/5000		
BH (60°-80°)	1212.4	3.7	B3/2500		G3/2500
BVH (80°-90°)	149.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



REPORT NUMBER: P953443  
 CATALOG NUMBER: GALN-SB7A-730-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4
2.5°	9326.9	9320.2	9357.1	9231.3	9145.8	9030.1	8877.4	8682.9	8473.2	8251.8	8156.2
5°	10167.2	10108.5	10147.1	10053.2	9959.2	9784.8	9558.4	9241.4	8854.0	8412.9	8178.1
7.5°	10034.7	9994.5	10093.4	10177.3	10247.7	10225.9	10059.9	9727.8	9228.0	8587.3	8246.8
10°	8966.3	8921.1	9060.3	9350.4	9776.4	10147.1	10348.4	10142.1	9610.4	8778.5	8313.9
12.5°	8023.7	8001.9	8094.2	8329.0	8802.0	9513.1	10311.5	10504.3	10007.9	9004.9	8404.5
15°	7621.2	7594.4	7653.1	7772.2	8074.1	8736.6	9976.0	10752.6	10398.7	9266.6	8548.7
17.5°	7532.3	7502.1	7527.3	7589.4	7783.9	8288.7	9469.5	10875.0	10806.2	9558.4	8669.5
20°	7696.7	7671.5	7674.9	7671.5	7807.4	8208.2	9117.3	10828.0	11161.8	9826.7	8786.9
22.5°	8094.2	8052.3	8053.9	7965.0	8038.8	8349.1	9025.0	10702.2	11478.8	10061.6	8875.8
25°	8741.6	8666.1	8681.2	8454.8	8434.7	8664.4	9169.3	10605.0	11794.1	10249.4	8892.5
27.5°	9627.2	9541.6	9496.3	9159.2	8998.2	9112.3	9462.8	10638.5	12092.6	10412.1	8850.6
30°	10734.1	10630.1	10537.9	10059.9	9768.0	9726.1	9919.0	10859.9	12444.9	10583.2	8778.5
32.5°	12091.0	11970.2	11802.5	11168.5	10757.6	10537.9	10509.4	11254.0	12857.5	10801.2	8741.6
35°	13706.1	13548.5	13310.3	12490.1	11970.2	11520.7	11287.6	11822.6	13422.7	11129.9	8783.5
37.5°	15369.9	15192.1	14974.1	13998.0	13358.9	12696.4	12236.9	12594.1	14175.7	11576.1	8894.2
40°	16904.6	16705.0	16502.0	15633.2	14947.3	14148.9	13399.2	13570.3	15096.5	12109.4	9082.1
42.5°	17810.2	17662.6	17585.5	17115.9	16585.9	15775.8	14844.9	14727.5	16131.4	12723.3	9296.7
45°	17770.0	17709.6	17947.8	18142.3	18016.5	17567.0	16538.9	16007.2	17169.5	13255.0	9494.7
47.5°	16820.7	16860.9	17392.6	18486.2	18967.5	19202.3	18467.7	17263.5	18071.9	13652.4	9583.6
50°	14237.8	14271.3	15502.4	17860.6	19212.4	20535.7	20381.4	18489.5	18771.3	13895.6	9563.4
52.5°	12193.3	12215.1	12743.4	16005.6	18404.0	21206.6	22105.6	19645.1	19282.8	13962.7	9451.1
55°	9184.4	9259.8	9851.9	12557.2	16300.8	20674.9	23155.5	20835.9	19606.5	13969.4	9333.6
57.5°	5365.4	5447.6	6178.8	8523.6	12669.6	18821.6	23314.8	21892.6	19826.2	13915.8	9263.2
60°	2628.2	2663.4	2982.1	4479.8	7812.4	15250.8	22033.4	22404.1	19948.7	13887.3	9259.8
62.5°	1771.1	1766.1	1779.5	2210.6	3849.2	9798.2	19363.3	21508.5	19883.3	13778.2	9226.3
65°	1522.9	1504.5	1454.1	1551.4	1994.2	4481.5	14960.7	18835.0	19385.1	13504.9	8996.5
67.5°	1316.6	1318.3	1320.0	1289.8	1423.9	2068.0	9142.4	14836.6	17597.2	12210.1	8111.0
70°	1090.2	1105.3	1112.0	1112.0	1160.6	1356.9	3902.9	10168.9	13880.5	9573.5	6532.7
72.5°	992.9	961.0	964.4	947.6	947.6	1033.2	1571.5	5764.6	8744.9	5385.5	3986.7
75°	810.1	830.2	833.6	821.8	783.3	788.3	932.5	2418.5	3741.8	2234.0	1970.7
77.5°	699.4	699.4	706.1	697.7	667.5	590.4	622.2	937.6	1273.0	915.8	984.5
80°	561.9	560.2	588.7	605.5	558.5	436.1	397.5	518.3	565.2	402.5	511.5
82.5°	273.4	290.2	404.2	461.2	424.3	315.3	243.2	322.0	301.9	177.8	229.8
85°	159.3	150.9	181.1	256.6	243.2	174.4	117.4	167.7	157.7	90.6	92.2
87.5°	50.3	47.0	36.9	87.2	70.4	48.6	31.9	48.6	43.6	20.1	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

REPORT NUMBER: P953443  
 CATALOG NUMBER: GALN-SB7A-730-U-AFL

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4	8129.4
2.5°	8037.2	7839.3	7643.0	7463.6	7354.5	7284.1	7213.7	7134.8	7104.6	7059.4
5°	7956.7	7574.3	7233.8	6940.3	6673.6	6463.9	6252.6	6081.5	6004.4	6056.4
7.5°	7909.7	7356.2	6831.3	6292.9	5774.6	5360.3	4999.7	4746.5	4632.4	4661.0
10°	7867.8	7109.7	6309.6	5459.3	4714.6	4201.4	3832.4	3639.5	3567.4	3582.5
12.5°	7829.2	6832.9	5680.7	4562.0	3770.4	3431.6	3325.9	3327.6	3341.0	3351.1
15°	7822.5	6499.2	4977.9	3777.1	3260.5	3238.7	3352.7	3424.9	3463.4	3475.2
17.5°	7812.4	6100.0	4261.8	3242.0	3136.4	3284.0	3389.6	3436.6	3466.8	3468.5
20°	7772.2	5593.5	3601.0	2987.1	3109.5	3237.0	3302.4	3339.3	3364.5	3372.9
22.5°	7648.1	5029.9	3086.1	2873.1	3002.2	3104.5	3181.7	3223.6	3238.7	3248.7
25°	7425.0	4399.3	2730.5	2764.0	2852.9	2982.1	3044.1	3052.5	3047.5	3062.6
27.5°	7133.2	3723.4	2509.1	2616.4	2730.5	2841.2	2874.7	2869.7	2859.6	2876.4
30°	6780.9	3116.2	2368.2	2450.4	2606.4	2707.0	2737.2	2725.5	2705.3	2723.8
32.5°	6408.6	2619.8	2252.5	2334.7	2504.1	2603.0	2633.2	2621.5	2606.4	2621.5
35°	6061.4	2272.6	2145.1	2257.5	2423.6	2520.8	2559.4	2561.1	2561.1	2579.5
37.5°	5742.8	2069.7	2056.3	2208.9	2368.2	2455.4	2510.8	2514.1	2442.0	2447.0
40°	5447.6	1984.1	2016.0	2177.0	2314.5	2398.4	2401.8	2213.9	2081.4	2078.1
42.5°	5206.0	1967.4	2027.7	2173.7	2276.0	2279.3	2042.8	1896.9	1860.0	1861.7
45°	4979.6	1962.3	2054.6	2173.7	2218.9	1969.0	1809.7	1771.1	1774.5	1787.9
47.5°	4726.4	1942.2	2059.6	2143.5	2054.6	1751.0	1704.0	1687.3	1680.6	1683.9
50°	4449.6	1870.1	1995.9	2083.1	1772.8	1657.1	1598.4	1593.3	1601.7	1606.8
52.5°	4157.8	1752.7	1886.9	1974.1	1643.7	1574.9	1509.5	1521.2	1558.1	1569.9
55°	3966.6	1615.1	1742.6	1756.0	1553.1	1497.7	1442.4	1469.2	1538.0	1559.8
57.5°	3916.3	1469.2	1578.3	1563.2	1437.4	1430.7	1397.1	1420.6	1507.8	1539.7
60°	3901.2	1338.4	1417.2	1405.5	1325.0	1356.9	1348.5	1360.2	1390.4	1400.5
62.5°	3783.8	1234.4	1273.0	1256.2	1224.4	1279.7	1299.8	1274.7	1298.2	1309.9
65°	3485.2	1150.6	1132.1	1120.4	1133.8	1184.1	1224.4	1174.0	1195.8	1229.4
67.5°	2992.1	1036.5	986.2	999.6	1041.5	1068.4	1120.4	1063.3	1081.8	1138.8
70°	2420.2	892.3	847.0	885.6	925.8	981.2	989.6	951.0	994.6	1058.3
72.5°	1712.4	746.4	714.5	793.3	806.7	878.9	860.4	842.0	902.3	924.1
75°	1187.5	602.1	583.7	644.0	692.7	754.7	741.3	763.1	890.6	900.7
77.5°	751.4	467.9	456.2	494.8	561.9	630.6	652.4	900.7	1521.2	1581.6
80°	436.1	348.9	335.4	365.6	424.3	488.1	629.0	1105.3	1003.0	991.2
82.5°	243.2	239.8	223.1	231.5	283.4	352.2	888.9	778.2	632.3	652.4
85°	114.0	140.9	120.8	115.7	159.3	412.6	593.7	444.5	295.2	288.5
87.5°	30.2	26.8	26.8	30.2	67.1	355.6	236.5	189.5	112.4	109.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)