

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: P531711

Luminaire Tested: **GALN-SA7A-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531711
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22135 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

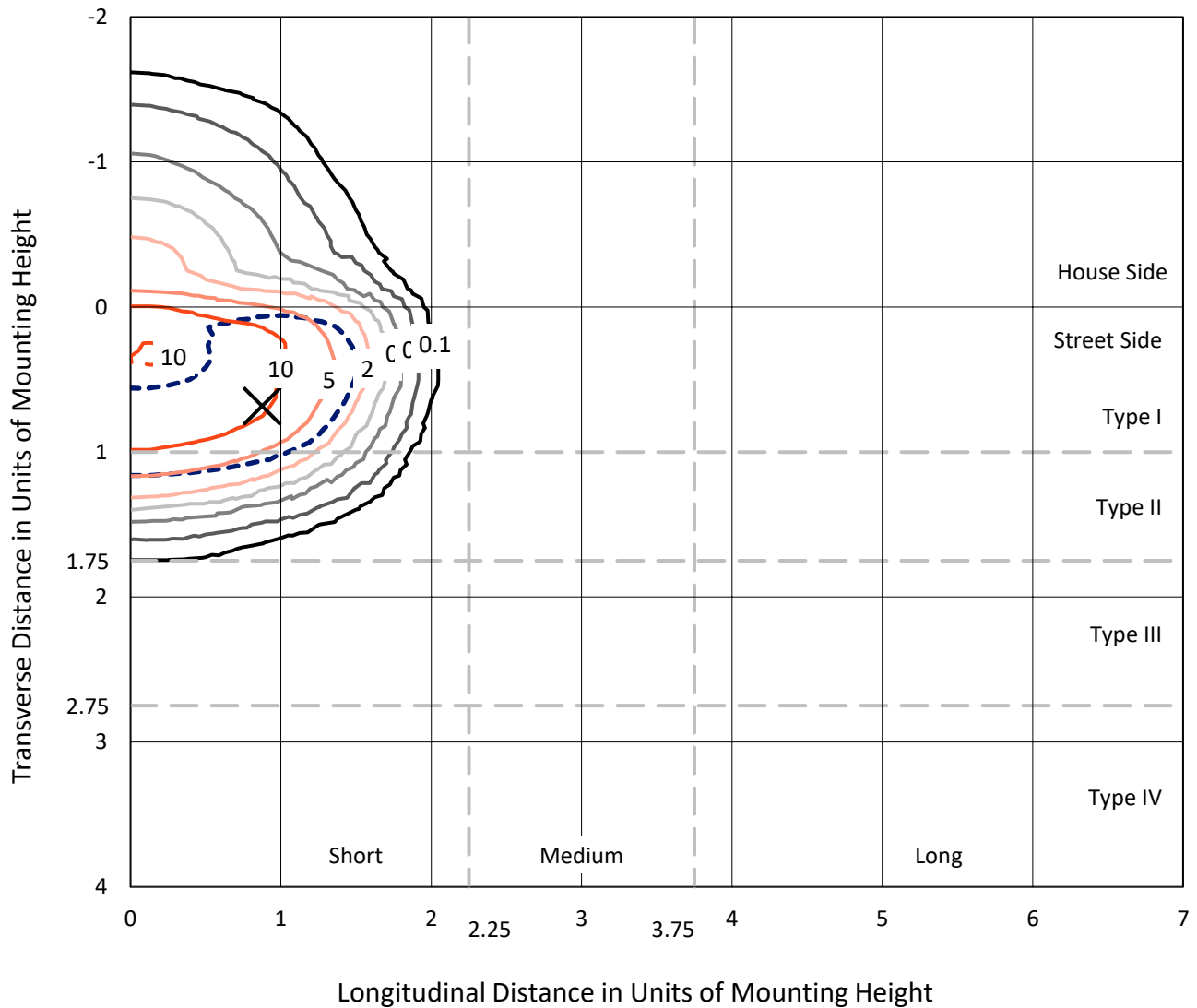
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

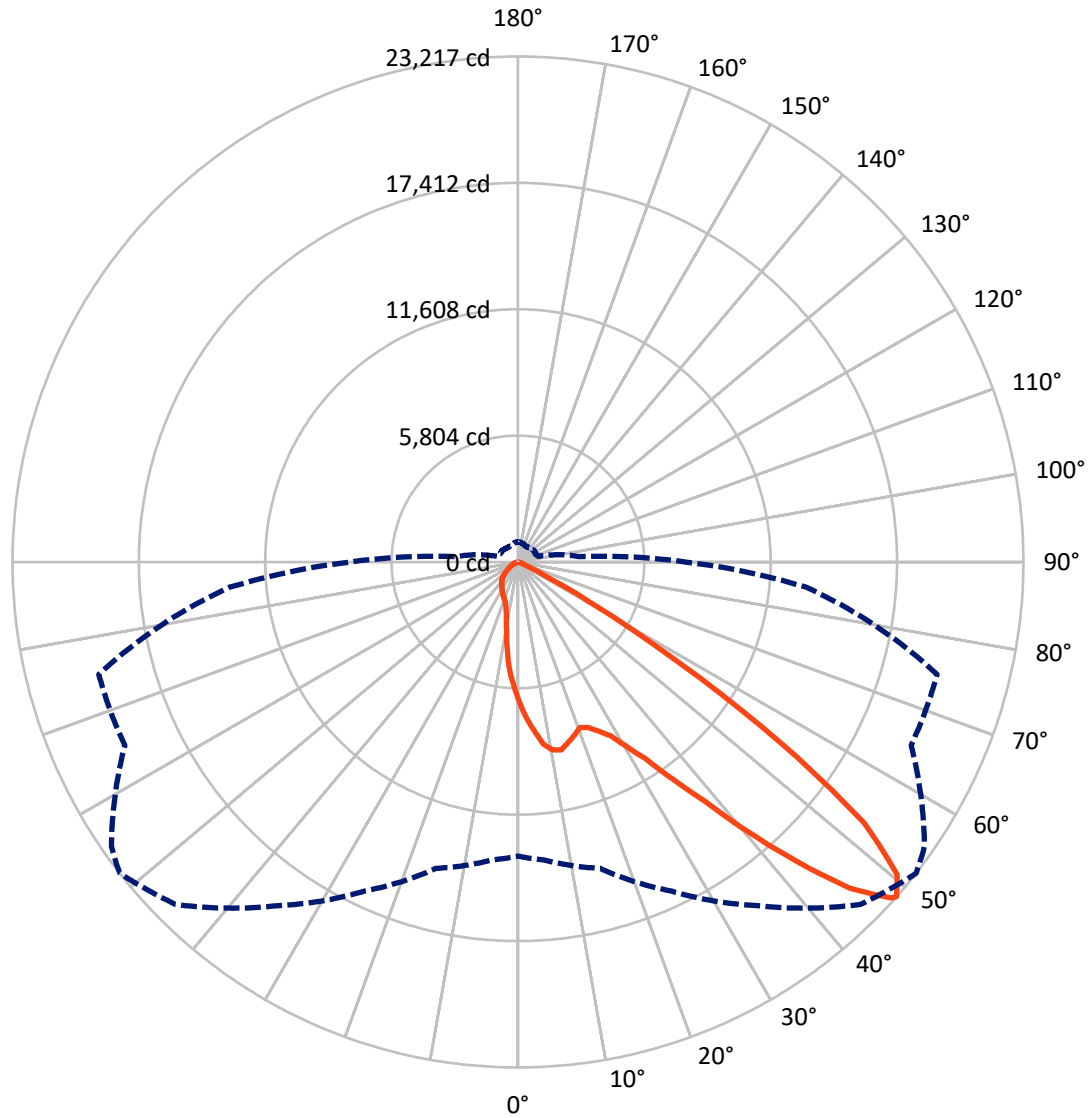
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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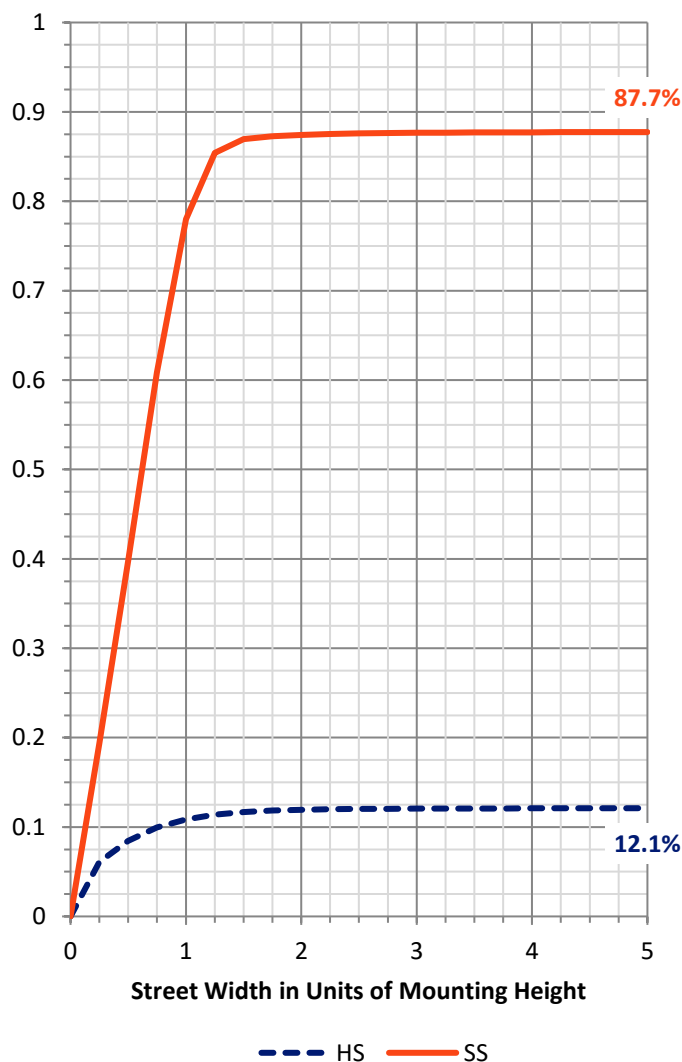
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2695.1	0.0	2695.1
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	19439.9	0.0	19439.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	22135.0	0.0	22135.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.1	2.6
10°-20°	1529.0	6.9
20°-30°	2610.6	11.8
30°-40°	4807.5	21.7
40°-50°	7466.0	33.7
50°-60°	4493.3	20.3
60°-70°	519.7	2.3
70°-80°	100.6	0.5
80°-90°	23.3	0.1
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°	22135.0	100.0
0°-180°	22135.0	100.0

Coefficient of Utilization



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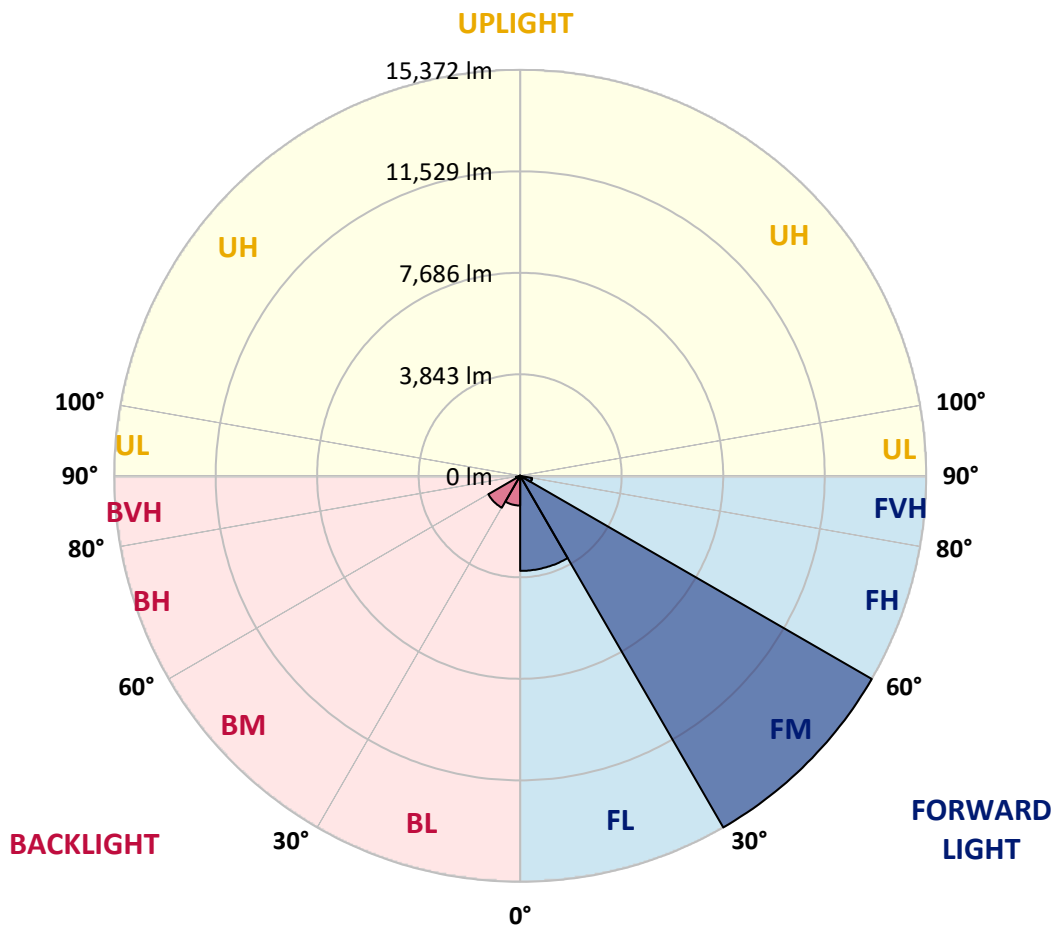
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3598.9	16.3			
FM (30°-60°)	15372.3	69.4			
FH (60°-80°)	457.6	2.1			G0/660
FVH (80°-90°)	11.1	0.1			G1/100
BL (0°-30°)	1125.8	5.1	B3/2500		
BM (30°-60°)	1394.4	6.3	B2/2500		
BH (60°-80°)	162.7	0.7	B1/500		G1/500
BVH (80°-90°)	12.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2
2.5°	7747.5	7570.0	7586.1	7470.0	7402.2	7292.5	7144.1	7115.0	6953.7	6734.3	6511.6
5°	8444.4	8402.5	8457.3	8289.6	8296.0	8115.3	7766.8	7773.3	7402.2	7044.0	6698.8
7.5°	8489.6	8392.8	8447.7	8596.1	8683.2	8651.0	8454.1	8283.1	7931.4	7405.4	6902.0
10°	7602.3	7786.2	7844.3	8089.5	8438.0	8805.8	8783.3	8792.9	8499.3	7812.0	7076.3
12.5°	7069.8	6947.2	7144.1	7292.5	7818.5	8531.6	8857.5	8928.5	8951.0	8205.7	7250.5
15°	6827.8	6827.8	6860.1	6902.0	7282.8	7941.1	8605.8	8812.3	9299.5	8721.9	7524.8
17.5°	6979.5	6973.0	7018.2	6931.1	7073.1	7579.7	8373.5	8609.0	9690.0	9228.5	7741.0
20°	7440.9	7463.5	7434.5	7182.8	7192.5	7573.2	8115.3	8486.4	9954.6	9667.4	8028.2
22.5°	8083.0	8096.0	7931.4	7657.1	7576.4	7763.6	8263.7	8547.7	10167.5	10193.3	8115.3
25°	8825.2	8773.6	8741.3	8354.1	8108.9	8270.2	8599.3	8763.9	10299.8	10645.1	8363.8
27.5°	9854.5	9751.3	9554.4	9209.2	9028.5	8799.4	9034.9	9306.0	10677.4	11277.5	8634.8
30°	11374.3	11284.0	10900.0	10454.7	9980.4	9754.5	9828.7	9977.2	11358.2	12010.0	8993.0
32.5°	13662.1	13471.7	12916.7	12068.1	11422.7	10800.0	10780.6	10938.7	11968.1	13023.2	9418.9
35°	16182.2	16124.1	15307.8	14433.3	13184.6	12223.0	12239.1	12323.0	13136.2	14352.6	9977.2
37.5°	17856.9	18176.4	17656.9	16717.9	15669.2	14294.6	13946.1	13975.1	14739.9	15927.3	10983.9
40°	19150.8	18879.8	18941.1	18721.7	18005.3	17069.6	16298.4	16146.7	16595.2	17669.8	11984.2
42.5°	18586.2	18599.1	18976.6	19496.1	19673.6	19605.8	18818.5	18531.3	18182.8	19096.0	12936.1
45°	16992.1	17324.5	17815.0	19189.6	20396.4	21529.0	21374.1	20896.5	19279.9	20225.4	13484.6
47.5°	14449.5	14436.5	15240.0	17027.6	19709.1	22361.5	23064.9	22729.3	20057.6	20099.5	13371.7
48°	13510.5	13742.8	14572.1	16675.9	19273.5	22238.9	23216.6	22793.9	19925.3	19931.7	13274.9
50°	9986.8	9944.9	10977.5	13558.9	17214.8	20896.5	22577.7	22906.8	19922.0	19083.1	12597.3
52.5°	5275.8	5456.5	6208.3	8525.1	12171.4	17101.9	19915.6	20428.6	19218.6	17695.6	11622.8
55°	2242.6	2026.4	2604.0	3849.5	6847.2	11426.0	14610.8	15753.1	16250.0	15659.5	10167.5
57.5°	800.2	874.5	1006.8	1448.8	2878.3	6253.5	8712.3	9599.6	11258.2	11490.5	6927.9
60°	513.1	522.7	564.7	664.7	1081.0	2410.4	4133.5	4840.1	5592.0	5772.7	3233.2
62.5°	396.9	400.1	419.5	435.6	513.1	935.8	1552.1	1839.3	1910.2	1642.4	848.6
65°	332.4	335.6	342.0	342.0	364.6	438.8	542.1	597.0	580.8	574.4	480.8
67.5°	254.9	261.4	274.3	274.3	287.2	267.8	300.1	319.4	361.4	438.8	409.8
70°	200.1	203.3	213.0	219.4	219.4	193.6	216.2	235.6	264.6	325.9	322.7
72.5°	154.9	161.3	167.8	167.8	158.1	132.3	154.9	171.0	190.4	225.9	219.4
75°	119.4	119.4	122.6	100.0	77.4	67.8	93.6	112.9	142.0	148.4	122.6
77.5°	32.3	35.5	32.3	29.0	32.3	48.4	61.3	71.0	90.3	90.3	80.7
80°	0.0	3.2	9.7	19.4	32.3	45.2	54.9	61.3	71.0	77.4	74.2
82.5°	0.0	3.2	9.7	19.4	29.0	35.5	48.4	51.6	58.1	67.8	67.8
85°	0.0	3.2	6.5	12.9	19.4	22.6	22.6	19.4	19.4	16.1	12.9
87.5°	0.0	0.0	3.2	6.5	6.5	9.7	9.7	9.7	9.7	9.7	9.7
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°	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2	6392.2
2.5°	6424.5	6324.5	6172.8	5934.0	5704.9	5556.5	5414.5	5256.4	5169.3	5162.8	5114.4
5°	6501.9	6276.1	5914.7	5504.9	5066.0	4688.5	4307.7	4059.3	3836.6	3714.0	3691.4
7.5°	6543.9	6250.2	5666.2	4978.9	4230.3	3614.0	3188.0	2875.0	2752.4	2662.1	2658.9
10°	6631.0	6205.1	5295.1	4281.9	3355.8	2733.1	2439.4	2297.5	2229.7	2203.9	2165.2
12.5°	6695.5	6121.2	4914.4	3565.6	2652.4	2265.2	2136.1	2103.9	2107.1	2120.0	2103.9
15°	6785.9	6047.0	4401.3	2926.7	2226.5	2039.3	2039.3	2045.8	2090.9	2097.4	2094.2
17.5°	6779.4	5901.8	3872.1	2410.4	1968.3	1942.5	1952.2	2013.5	2042.5	2052.2	2029.6
20°	6856.9	5766.2	3326.8	2058.7	1823.1	1861.8	1926.4	1942.5	1978.0	1984.5	1958.6
22.5°	6834.3	5427.4	2820.2	1781.2	1713.4	1787.6	1852.2	1871.5	1861.8	1842.5	1839.3
25°	6792.3	5137.0	2355.5	1597.2	1632.7	1713.4	1774.7	1739.2	1719.9	1723.1	1726.3
27.5°	6718.1	4769.2	1971.6	1468.2	1523.0	1642.4	1639.2	1626.3	1645.6	1629.5	1645.6
30°	6705.2	4401.3	1655.3	1352.0	1442.4	1529.5	1535.9	1558.5	1581.1	1552.1	1581.1
32.5°	6724.6	3998.0	1429.5	1281.0	1394.0	1397.2	1468.2	1490.8	1474.6	1410.1	1416.5
35°	6873.0	3688.2	1264.9	1242.3	1316.5	1319.7	1387.5	1358.5	1287.5	1248.8	1271.3
37.5°	7186.0	3430.1	1187.4	1206.8	1213.3	1255.2	1258.4	1200.4	1206.8	1203.6	1216.5
40°	7586.1	3233.2	1132.6	1174.5	1168.1	1197.1	1081.0	1113.2	1142.3	1152.0	1158.4
42.5°	7860.4	3091.2	1097.1	1122.9	1110.0	1058.4	993.8	1026.1	1048.7	1084.2	1090.6
45°	7983.0	2978.3	1055.2	1032.6	1032.6	939.0	913.2	919.6	971.3	1010.0	1003.5
47.5°	7783.0	2868.6	980.9	913.2	935.8	858.3	829.3	829.3	884.1	932.5	922.9
48°	7705.5	2823.4	984.2	887.4	903.5	845.4	816.4	809.9	871.2	916.4	916.4
50°	7321.5	2655.6	900.3	816.4	784.1	777.7	758.3	764.7	803.5	845.4	845.4
52.5°	6572.9	2294.2	761.5	700.2	642.1	680.8	690.5	677.6	697.0	735.7	732.5
55°	5485.5	1761.8	609.9	580.8	535.6	577.6	597.0	580.8	561.5	590.5	590.5
57.5°	3513.9	948.7	487.2	493.7	448.5	490.5	506.6	467.9	432.4	455.0	451.7
60°	1584.3	567.9	400.1	390.4	361.4	409.8	435.6	390.4	342.0	358.2	374.3
62.5°	593.7	403.3	303.3	296.9	290.4	335.6	348.5	313.0	264.6	274.3	277.5
65°	435.6	354.9	242.0	219.4	232.3	264.6	258.1	222.6	190.4	190.4	196.8
67.5°	371.1	309.8	196.8	171.0	171.0	174.2	161.3	142.0	132.3	138.8	145.2
70°	290.4	245.2	154.9	132.3	119.4	106.5	93.6	90.3	80.7	90.3	87.1
72.5°	187.2	164.6	119.4	100.0	90.3	74.2	61.3	58.1	48.4	45.2	45.2
75°	100.0	100.0	93.6	80.7	71.0	58.1	48.4	38.7	25.8	19.4	19.4
77.5°	71.0	77.4	83.9	77.4	64.5	48.4	38.7	25.8	12.9	6.5	6.5
80°	67.8	77.4	83.9	74.2	64.5	48.4	35.5	19.4	9.7	3.2	3.2
82.5°	61.3	71.0	77.4	67.8	58.1	41.9	32.3	19.4	9.7	3.2	3.2
85°	12.9	16.1	19.4	19.4	22.6	29.0	22.6	16.1	6.5	3.2	3.2
87.5°	9.7	9.7	9.7	9.7	9.7	9.7	6.5	6.5	3.2	3.2	3.2
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)