

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: P531738

Luminaire Tested: **GALN-SA7A-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28742 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

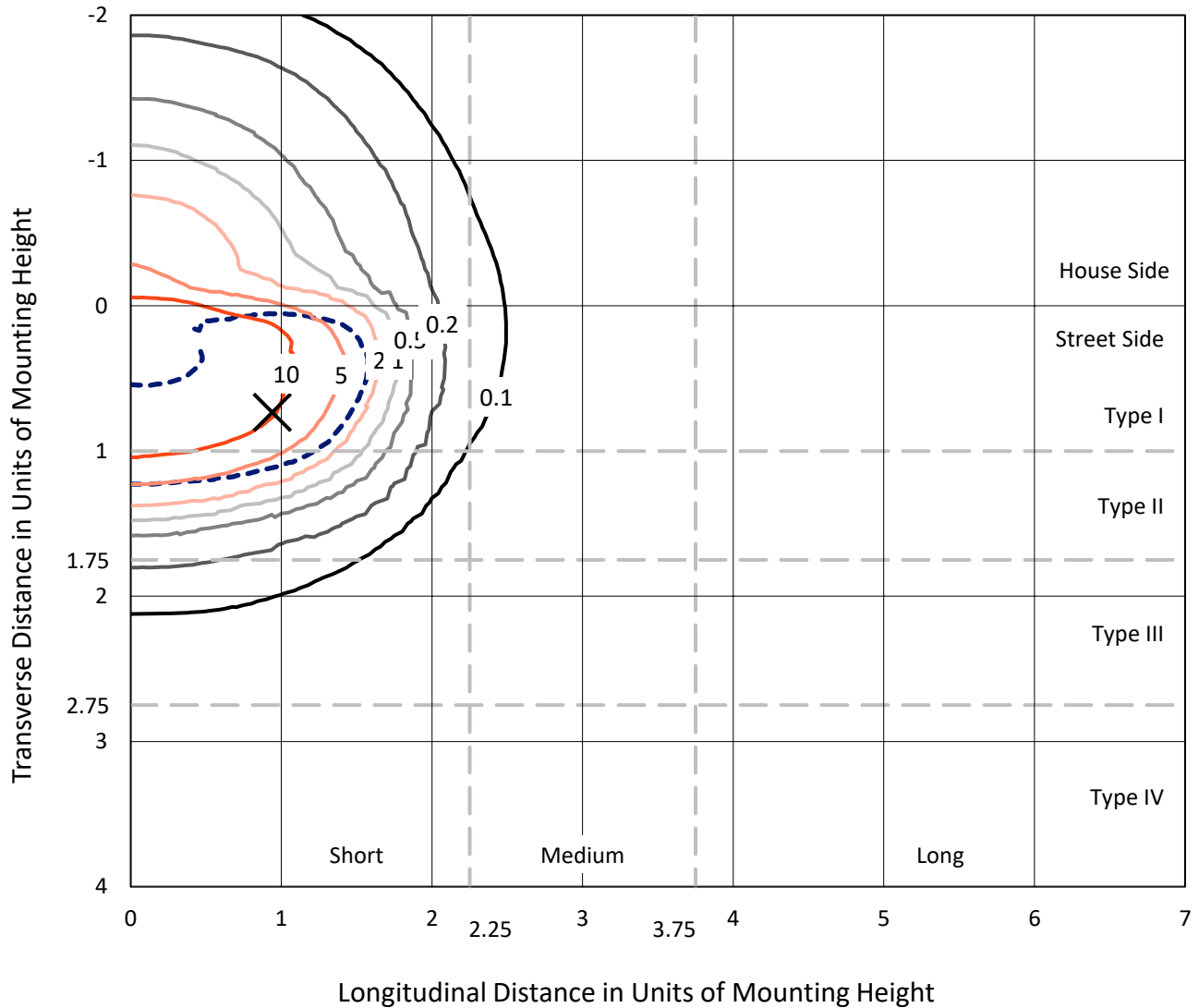
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

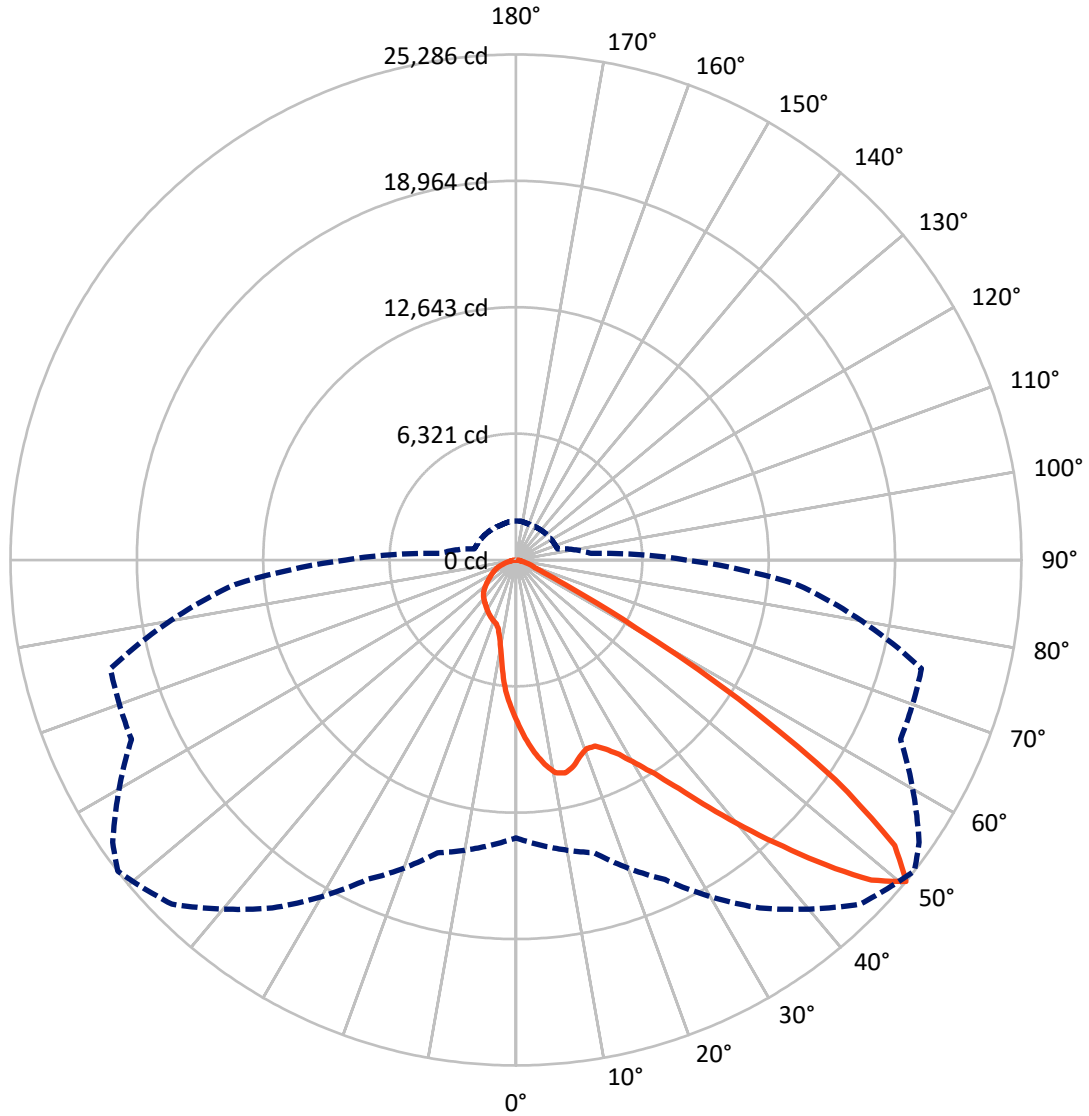
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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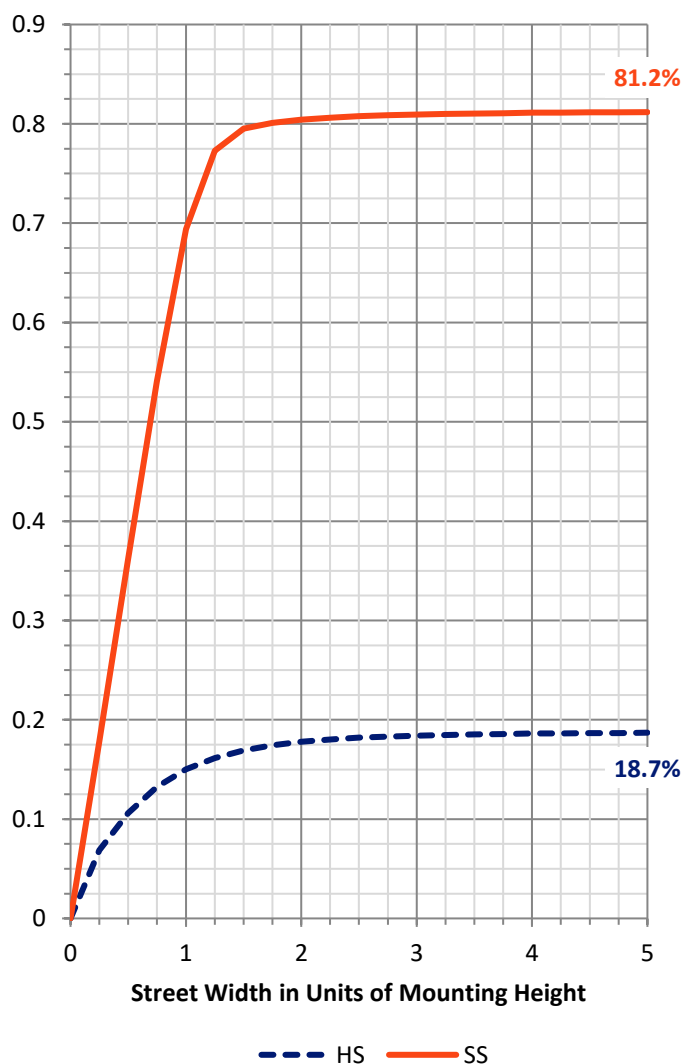
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5402.8	0.0	5402.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	23339.2	0.0	23339.2
	% Fixture	81.2	0.0	81.2
Total	Lumens	28742.0	0.0	28742.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	746.8	2.6
10°-20°	2001.5	7.0
20°-30°	3371.4	11.7
30°-40°	5657.5	19.7
40°-50°	8654.6	30.1
50°-60°	6309.9	22.0
60°-70°	1404.3	4.9
70°-80°	506.5	1.8
80°-90°	89.7	0.3
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°	28742.0	100.0
0°-180°	28742.0	100.0

Coefficient of Utilization



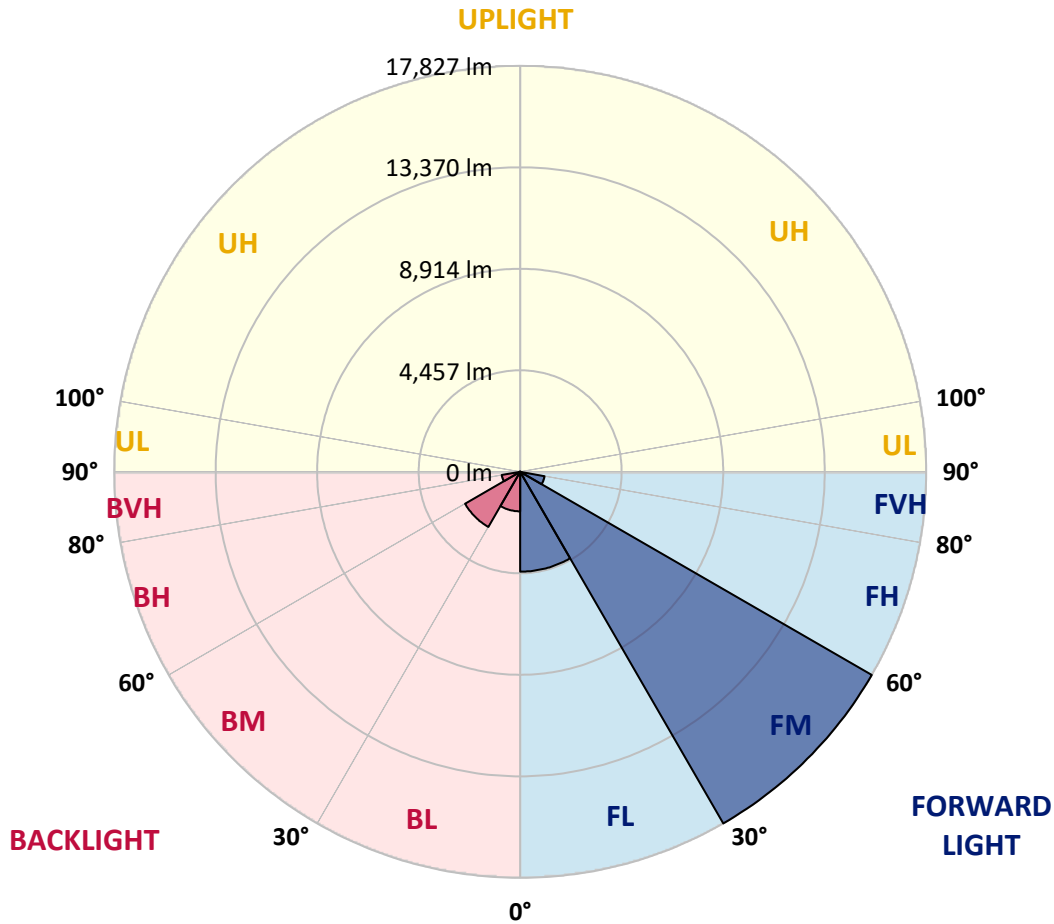
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4384.1	15.3			
FM	(30°-60°)	17827.2	62.0			
FH	(60°-80°)	1087.6	3.8			G1/1800
FVH	(80°-90°)	40.2	0.1			G1/100
BL	(0°-30°)	1735.5	6.0	B3/2500		
BM	(30°-60°)	2794.7	9.7	B3/5000		
BH	(60°-80°)	823.1	2.9	B2/1000		G2/1000
BVH	(80°-90°)	49.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9
2.5°	9539.4	9355.8	9376.6	9245.0	9102.9	9061.4	8915.9	8777.3	8673.4	8451.7	8247.4
5°	10426.1	10370.7	10287.6	10183.7	10076.3	9813.0	9664.1	9490.9	9109.9	8766.9	8427.5
7.5°	10554.3	10543.9	10588.9	10588.9	10627.0	10526.6	10315.3	10194.0	9788.8	9231.1	8600.7
10°	9653.7	9684.9	9903.1	10187.1	10582.0	10855.6	10821.0	10789.8	10346.5	9584.4	8805.1
12.5°	8936.7	8867.4	8995.6	9238.0	9830.3	10491.9	10938.8	10942.2	10827.9	10149.0	8954.0
15°	8531.4	8579.9	8614.5	8728.8	9175.7	9941.2	10727.5	10959.6	11461.8	10547.4	9189.5
17.5°	8791.2	8628.4	8621.5	8649.2	8877.8	9452.8	10336.1	10734.4	11808.2	11060.0	9480.5
20°	9130.7	9127.2	9030.2	8995.6	8992.1	9504.7	10079.7	10620.1	11991.8	11725.1	9774.9
22.5°	9726.4	9726.4	9567.1	9490.9	9328.1	9747.2	10114.4	10481.5	12296.6	12182.3	9916.9
25°	10724.0	10561.2	10287.6	10100.5	10007.0	10155.9	10481.5	10810.6	12563.3	12667.2	10211.4
27.5°	11645.4	11389.1	11254.0	10931.8	10807.1	10720.5	11018.4	11351.0	12875.0	13422.3	10370.7
30°	12691.5	12646.4	12404.0	11988.3	11680.0	11520.7	11794.3	12123.4	13446.6	14194.8	10737.9
32.5°	14561.9	14153.2	13824.1	13315.0	12812.7	12473.2	12743.4	12961.6	14395.7	15001.8	11139.7
35°	16581.3	16449.7	15881.7	14963.7	14194.8	13889.9	14049.3	14212.1	15500.6	16235.0	11815.1
37.5°	18566.1	18386.0	17918.4	17145.9	16210.7	15590.7	15705.0	15895.5	16740.7	17897.6	12639.5
40°	19993.2	19771.5	19536.0	19421.7	18493.4	17644.7	17578.9	17627.4	18417.2	19456.3	13554.0
42.5°	20097.1	20370.8	20443.5	20904.2	20686.0	19989.8	19584.5	19594.9	20017.5	20997.7	14478.8
45°	19878.9	19626.0	20162.9	21420.3	22140.8	22466.4	21784.0	21697.4	21008.1	21891.4	14939.5
47.5°	17589.3	17658.6	18566.1	20554.4	22636.1	24090.9	23931.6	23644.1	21538.1	21860.2	14866.7
50°	13903.8	14322.9	15164.6	17641.3	21250.6	24347.2	25285.9	24620.9	21222.9	21001.2	14125.5
52.5°	9258.8	9432.0	9986.2	13183.3	17087.1	21763.2	23727.2	23879.6	20931.9	19875.4	13186.8
55°	4122.0	4108.1	4887.5	6886.1	10720.5	16560.6	19387.0	20315.4	19813.1	18728.9	12272.3
57.5°	1745.8	1804.7	2123.3	2975.4	5271.9	9993.1	13134.8	13948.8	15237.4	15379.4	9414.7
60°	1181.2	1188.1	1274.7	1489.4	2206.5	4693.5	6889.6	7866.4	8787.7	8725.4	4994.8
62.5°	928.3	952.6	1018.4	1105.0	1309.3	2130.3	3082.8	3626.6	3685.5	3100.1	1894.7
65°	793.2	796.7	862.5	935.2	1025.3	1240.1	1486.0	1513.7	1531.0	1475.6	1392.5
67.5°	654.7	661.6	713.5	796.7	879.8	949.1	1018.4	1053.0	1132.7	1288.5	1267.8
70°	519.6	530.0	575.0	644.3	720.5	762.0	848.6	879.8	952.6	1073.8	1122.3
72.5°	394.9	398.3	436.4	484.9	554.2	595.8	668.5	703.2	751.7	855.6	900.6
75°	284.0	294.4	322.1	346.4	356.8	384.5	453.8	491.9	561.1	606.2	609.6
77.5°	148.9	155.9	162.8	162.8	197.4	249.4	294.4	315.2	363.7	398.3	381.0
80°	58.9	62.3	79.7	107.4	138.6	180.1	211.3	221.7	263.3	284.0	294.4
82.5°	34.6	38.1	52.0	76.2	100.5	128.2	152.4	162.8	190.5	214.8	221.7
85°	17.3	20.8	31.2	48.5	65.8	79.7	76.2	72.7	72.7	69.3	72.7
87.5°	6.9	6.9	10.4	10.4	10.4	13.9	17.3	17.3	17.3	20.8	20.8
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°	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9	8101.9
2.5°	8112.3	7973.7	7845.6	7610.0	7353.7	7281.0	6983.1	6875.7	6799.5	6709.4	6681.7
5°	8153.9	7970.3	7558.1	7083.5	6706.0	6221.0	5902.4	5559.4	5310.0	5247.7	5230.4
7.5°	8240.4	7925.2	7215.2	6498.1	5725.7	5067.6	4565.3	4295.1	4056.1	4042.3	4018.0
10°	8337.4	7790.1	6841.1	5715.3	4728.1	4118.5	3817.1	3699.4	3640.5	3626.6	3619.7
12.5°	8417.1	7762.4	6421.9	4953.3	4021.5	3654.3	3564.3	3553.9	3578.1	3585.1	3598.9
15°	8451.7	7651.6	5916.2	4270.9	3581.6	3446.5	3484.6	3526.2	3543.5	3588.5	3553.9
17.5°	8517.6	7509.6	5292.7	3730.5	3335.7	3359.9	3425.7	3474.2	3501.9	3533.1	3488.1
20°	8552.2	7381.4	4707.3	3408.4	3249.1	3294.1	3384.2	3422.3	3456.9	3470.8	3418.8
22.5°	8521.0	7118.2	4191.2	3148.6	3165.9	3224.8	3304.5	3346.1	3325.3	3269.9	3238.7
25°	8437.9	6747.5	3654.3	2982.4	3048.2	3152.1	3214.4	3183.3	3145.2	3114.0	3103.6
27.5°	8434.4	6293.8	3266.4	2829.9	2947.7	3089.7	3069.0	3041.2	3058.6	3034.3	3006.6
30°	8451.7	5853.9	2947.7	2743.4	2875.0	2944.3	2968.5	2940.8	2961.6	2916.5	2930.4
32.5°	8361.7	5424.4	2739.9	2642.9	2788.4	2784.9	2864.6	2885.4	2836.9	2743.4	2757.2
35°	8399.8	5078.0	2563.2	2597.9	2691.4	2691.4	2753.7	2729.5	2601.3	2545.9	2559.8
37.5°	8663.0	4738.5	2476.6	2535.5	2597.9	2625.6	2604.8	2500.9	2469.7	2469.7	2476.6
40°	8912.4	4447.6	2424.7	2521.7	2511.3	2528.6	2376.2	2386.6	2386.6	2390.0	2372.7
42.5°	9134.1	4250.1	2383.1	2438.5	2455.9	2365.8	2272.3	2261.9	2286.1	2282.7	2268.8
45°	9213.8	4087.3	2324.2	2345.0	2358.9	2209.9	2164.9	2144.1	2171.8	2182.2	2196.1
47.5°	8909.0	3952.2	2258.4	2216.8	2189.1	2092.2	2033.3	1995.2	2029.8	2088.7	2102.5
50°	8517.6	3775.6	2154.5	2074.8	2015.9	1974.4	1932.8	1894.7	1919.0	1960.5	1950.1
52.5°	7939.1	3498.5	2022.9	1939.7	1839.3	1849.7	1811.6	1790.8	1804.7	1804.7	1794.3
55°	7114.7	2875.0	1801.2	1742.3	1659.2	1686.9	1693.8	1666.1	1638.4	1662.6	1641.9
57.5°	4856.3	2029.8	1607.2	1607.2	1524.1	1562.2	1558.7	1492.9	1427.1	1434.0	1420.2
60°	2809.2	1617.6	1482.5	1468.7	1382.1	1413.2	1420.2	1375.1	1274.7	1281.6	1267.8
62.5°	1596.8	1382.1	1295.5	1274.7	1257.4	1285.1	1285.1	1226.2	1139.6	1146.5	1132.7
65°	1357.8	1281.6	1156.9	1153.5	1146.5	1153.5	1125.7	1063.4	987.2	956.0	959.5
67.5°	1233.1	1184.6	1063.4	1032.2	1011.4	1008.0	956.0	897.1	862.5	834.8	831.3
70°	1080.7	1042.6	952.6	911.0	890.2	841.7	789.8	751.7	703.2	689.3	703.2
72.5°	855.6	852.1	817.5	772.4	727.4	689.3	644.3	592.3	547.3	536.9	512.6
75°	592.3	599.2	606.2	599.2	561.1	512.6	460.7	419.1	363.7	332.5	325.6
77.5°	387.9	398.3	408.7	394.9	370.6	325.6	291.0	239.0	197.4	173.2	169.7
80°	284.0	297.9	304.8	294.4	266.7	232.1	194.0	152.4	121.2	100.5	100.5
82.5°	218.2	232.1	239.0	221.7	194.0	166.3	138.6	107.4	83.1	65.8	62.3
85°	76.2	72.7	86.6	90.1	107.4	100.5	83.1	62.3	48.5	34.6	31.2
87.5°	20.8	20.8	24.2	24.2	20.8	17.3	17.3	17.3	13.9	10.4	10.4
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)